

LASER HAZARD CLASSIFICATION GUIDE

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## LASER HAZARD CLASSIFICATION GUIDE

### ABSTRACT

The Occupational Safety and Health Administration (OSHA) is expected to promulgate a standard for occupational exposure to laser radiation. The standard is based on a classification scheme whereby a laser is assigned a class depending on its capability to produce injury. Because the classification procedure can be complicated and time consuming, NIOSH decided to compile a listing of all lasers presently in use and their hazard classification according to the scheme to be proposed by OSHA. NIOSH then initiated an Interagency Agreement with the U.S. Army Environmental Hygiene Agency (USAEHA) to carry out this project. The objectives were threefold: 1) gather technical specifications on all lasers currently in use from manufacturers' data sheets, 2) classify the laser from the manufacturers' specifications, and 3) confirm the manufacturers' data by measuring a small sample of lasers and cross-checking the calibration of the manufacturers' instrumentation. This report presents the resulting laser compendium, a computerized list of almost 2500 models available from over 175 manufacturers and distributors in the laser safety field. This report was submitted in fulfillment of Interagency Agreement Number NIOSH IA-76-26 under the sponsorship of the National Institute for Occupational Safety and Health.



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## LASER HAZARD CLASSIFICATION GUIDE

### INTRODUCTION

The Occupational Safety and Health Administration (OSHA) is currently formulating a general industry standard governing occupational exposure to laser radiation<sup>1</sup>. Although the proposal is subject to revision before final issuance, the standard is conceptually similar to the laser safety standard of the American National Standards Institute (ANSI)<sup>2</sup> and the Bureau of Radiological Health (BRH) performance standard for laser products<sup>3</sup>. All employ a common element; namely, a classification scheme as a basis for laser hazard evaluation and control. The U.S. Army also uses a similar classification scheme<sup>4</sup>.

To facilitate enforcement of the standard, the OSHA Compliance Officer must be able to readily identify the hazard classification of any laser device or system used in the work environment. The procedure for classifying a laser device is a complicated and time-consuming task, especially in field situations. Consequently, OSHA requested that the National Institute for Occupational Safety and Health (NIOSH) provide a listing of all available laser devices with their hazard classifications to be used for compliance purposes.

NIOSH initiated an interagency agreement with the U.S. Army Environmental Hygiene Agency (USAEHA) to assist in compiling and processing this report. The Laser Microwave Division of USAEHA has maintained a reference file of the manufacturers' specifications of available laser devices since 1963 and over the past decade has performed measurements on more than 1000 lasers. This store of data provided an invaluable source for the task of compiling information on available laser devices. Due to the many types of lasers available, it was necessary to computerize the list alphabetically according to manufacturer, model number, and emitted wavelength. The output parameters were taken from the manufacturers' specifications and the hazard classification was assigned on the basis of the output data and the latest information available on the proposed OSHA laser standard.

## CLASSIFICATION SCHEME

The classification scheme of the proposed OSHA standard follows closely the BRH standard except for the addition of a multiplicative factor ( $C_p$ ) for repetitively pulsed lasers and the adoption of extended-source emission limits for Class IIIb. The OSHA limits are identical to those of the 1973 ANSI standard except for the addition of limits for pulsed ultraviolet lasers. Both BRH and OSHA standards also differ from the 1973 ANSI standard by eliminating Class V designation for "enclosed lasers". In 1976, ANSI eliminated the Class V and adopted pulsed ultraviolet limits. Any "enclosed laser" is now classified in all standards into one of four basic classes depending upon its accessible emission levels.

The basic concepts of the proposed OSHA classification scheme used in this project are described below and numerical values for the maximum radiation levels for each class are given Tables 1-4. Correction factors ( $k_1$  and  $k_2$ ) vary with wavelength and exposure duration. Values for  $k_1$  and  $k_2$  are given in Table 5 and selected numerical solutions are given in Table 6. A more detailed explanation of the scheme and associated terminology can be found in references 2 and 3.

Class I. Class I, or exempt lasers, are those which cannot emit a hazardous level of laser radiation under normal operating conditions.

Class II. Class II, or "low-power" laser devices, are those visible lasers which do not have enough power to injure a person accidentally, but which may produce retinal injury when viewed directly for more than 1/4 second.

Class IIIa. Class IIIa includes only visible lasers that cannot induce injury when viewed within the beam with the unaided eye, but may cause retinal damage if the energy is collected and focused into the eye as with binoculars.

Class IIIb. Class IIIb consists of lasers which can produce accidental injury if viewed directly. Intrabeam viewing of either the direct beam or a mirror-like (specular) reflection of the beam should also be considered hazardous.

Class IV. Class IV includes lasers which not only produce a hazardous direct or specularly reflected beam but also a hazardous diffuse reflection and a significant skin hazard.

The values shown in Tables 1-4 are taken from the latest draft of the proposed standard and are subject to change before final publication of the standard in the Federal Register.

Table 1. Proposed OSHA Class I Laser Radiation

Wavelength (nm)	Exposure Duration (s)	Maximum Accessible Radiation Level	Limiting Aperture (mm)
>200 but ≤400	≤3.0x10 <sup>4</sup>	3.0x10 <sup>-3</sup> k <sub>1</sub> k <sub>2</sub> Jcm <sup>-2</sup>	1
	>3.0x10 <sup>4</sup>	1.0x10 <sup>-7</sup> k <sub>1</sub> k <sub>2</sub> Wcm <sup>-2</sup>	
>400 but ≤1400	>1.0x10 <sup>-9</sup> to 2.0x10 <sup>-5</sup>	5.0x10 <sup>-7</sup> k <sub>1</sub> k <sub>2</sub> Jcm <sup>-2</sup> or 1.0x10 <sup>1</sup> k <sub>1</sub> k <sub>2</sub> t <sup>1/3</sup> Jcm <sup>-2</sup> sr <sup>-1</sup>	7
	>2.0x10 <sup>-5</sup> to 1.0x10 <sup>1</sup>	1.8x10 <sup>-3</sup> k <sub>1</sub> k <sub>2</sub> t <sup>3/4</sup> Jcm <sup>-2</sup> or 1.0x10 <sup>1</sup> k <sub>1</sub> k <sub>2</sub> t <sup>1/3</sup> Jcm <sup>-2</sup> sr <sup>-1</sup>	
	>1.0x10 <sup>1</sup> to 1.0x10 <sup>4</sup>	1.0x10 <sup>-2</sup> k <sub>1</sub> k <sub>2</sub> Jcm <sup>-2</sup> or 2.0x10 <sup>1</sup> k <sub>1</sub> k <sub>2</sub> Jcm <sup>-2</sup> sr <sup>-1</sup>	
	>1.0x10 <sup>4</sup> to 3.0x10 <sup>4</sup>	1.0x10 <sup>-6</sup> k <sub>1</sub> k <sub>2</sub> Wcm <sup>-2</sup> or 2.0x10 <sup>-3</sup> k <sub>1</sub> k <sub>2</sub> Wcm <sup>-2</sup> sr <sup>-1</sup>	
>1400 but ≤100,000	>1.0x10 <sup>-9</sup> to 1.0x10 <sup>-7</sup>	1.0x10 <sup>-2</sup> k <sub>1</sub> k <sub>2</sub> Jcm <sup>-2</sup>	1
	>1.0x10 <sup>-7</sup> to 1.0x10 <sup>1</sup>	5.6x10 <sup>-1</sup> t <sup>1/4</sup> k <sub>1</sub> k <sub>2</sub> Jcm <sup>-2</sup>	
	>1.0x10 <sup>1</sup>	1.0x10 <sup>-1</sup> k <sub>1</sub> k <sub>2</sub> Wcm <sup>-2</sup>	

Note: Values for k<sub>1</sub> and k<sub>2</sub> are found in Table 5.

Table 2. Proposed OSHA Class II Laser Radiation

Wavelength (nm)	Exposure Duration(s)	Maximum Power	Maximum Accessible Radiation Level	Limiting Aperture (mm)
>400 but ≤700	$>2.5 \times 10^{-1}$	$1.0 \times 10^{-3} k_1 k_2 W$	$2.5 \times 10^{-3} k_1 k_2 W cm^{-2}$	7

Note: Values for  $k_1$  and  $k_2$  are found in Table 5:

4

Table 3. Proposed OSHA Class IIIa Laser Radiation

Wavelength (nm)	Exposure Duration(s)	Maximum Power	Maximum Accessible Radiation Level	Limiting Aperture (mm)
>400 but ≤700	$>3.8 \times 10^{-4}$ to $3.0 \times 10^4$	$5.0 \times 10^{-3} k_1 k_2 W$	$2.5 \times 10^{-3} k_1 k_2 W cm^{-2}$	7

Note: Values for  $k_1$  and  $k_2$  are found in Table 5.

Table 4. Proposed OSHA Class. IIIb Laser Radiation

Wavelength (nm)	Exposure Duration(s)	Maximum Power/Energy	Maximum Accessible Radiation Level	Limiting Aperture (mm)
>200 but ≤400	<2.5x10 <sup>-1</sup>	3.8x10 <sup>-4</sup> k <sub>1</sub> k <sub>2</sub> J	3.0x10 <sup>-3</sup> k <sub>1</sub> k <sub>2</sub> Jcm <sup>-2</sup>	1
	>2.5x10 <sup>-1</sup>	1.5x10 <sup>-3</sup> k <sub>1</sub> k <sub>2</sub> W	1.0x10 <sup>-7</sup> k <sub>1</sub> k <sub>2</sub> Wcm <sup>-2</sup>	
>400 but ≤1400	>1.0x10 <sup>-9</sup> to 2.5x10 <sup>-1</sup>	1.2x10 <sup>1</sup> k <sub>1</sub> k <sub>2</sub> t <sup>1/3</sup> J to a maximum value of 4.0J	3.1x10 <sup>1</sup> k <sub>1</sub> k <sub>2</sub> t <sup>1/3</sup> Jcm <sup>-2</sup> to a maximum value of 1.0x10 <sup>1</sup> J	7
	<2.5x10 <sup>-1</sup>	5.0x10 <sup>-1</sup> k <sub>1</sub> k <sub>2</sub> W	1.3k <sub>1</sub> k <sub>2</sub> Wcm <sup>-2</sup>	
>1400 but ≤100,000	>1.0x10 <sup>-9</sup> to 1.0x10 <sup>1</sup>	7.8x10 <sup>-2</sup> k <sub>1</sub> k <sub>2</sub> J	1.0x10 <sup>1</sup> k <sub>1</sub> k <sub>2</sub> Jcm <sup>-2</sup>	1
	>1.0x10 <sup>1</sup>	5.0x10 <sup>-1</sup> k <sub>1</sub> k <sub>2</sub> W	6.4x10 <sup>1</sup> k <sub>1</sub> k <sub>2</sub> Wcm <sup>-2</sup>	

Note: Values for k<sub>1</sub> and k<sub>2</sub> are found in Table 5.

Table 5. Values of Wavelength Dependent Correction Factors  $k_1$  and  $k_2$

Wavelength band (nanometers)	$k_1$	$k_2$		
200 to 302.4	1.0	1.0		
> 302.4 to 315	$10^{-\left[\frac{\lambda - 302.4}{5}\right]}$	1.0		
> 315 to 400	330.0	1.0		
> 400 to 700	1.0	1.0		
> 700 to 800	$10^{-\left[\frac{\lambda - 700}{515}\right]}$	if: $t \leq \frac{10100}{\lambda - 699}$ then: $k_2 = 1.0$	if: $\frac{10100}{\lambda - 699} < t \leq 10^4$ then: $k_2 = \frac{t(\lambda - 699)}{10100}$	if: $t > 10^4$ then: $k_2 = \frac{\lambda - 699}{1.01}$
> 800 to 1060	$10^{-\left[\frac{\lambda - 700}{515}\right]}$	if: $t \leq 100$ then: $k_2 = 1.0$	if: $100 < t \leq 10^4$ then: $k_2 = \frac{t}{100}$	if: $t > 10^4$ then: $k_2 = 100$
> 1060 to 1400	5.0			
> 1400 to 1535	1.0	1.0		
> 1535 to 1545	$t \leq 10^{-7}$ $k_1 = 100.0$	1.0		
	$t > 10^{-7}$ $k_1 = 1.0$			
> 1545 to 100,000	1.0	1.0		

Note: The variables in the expressions are the magnitudes of the exposure duration ( $t$ ), in units of seconds, and the wavelength ( $\lambda$ ), in units of nanometers.

Table 6. Selected Numerical Solutions for  $k_1$  and  $k_2$

Wavelength (nanometers)	$k_1$	$k_2$				
		$t \leq 100$	$t = 300$	$t = 1000$	$t = 3000$	$t \geq 10,000$
200	1.0					
300	1.0					
302	1.0					
303	1.32					
304	2.09					
305	3.31					
306	5.25					
307	8.32					
308	13.2					
309	20.9					
310	33.1					
311	52.5					
312	83.2					
313	132.0					
314	209.0					
315	330.0					
400	330.0					
401	1.0					
500	1.0					
600	1.0					
700	1.0					
710	1.05	1	1	1.1	3.3	11.0
720	1.09	1	1	2.1	6.3	21.0
730	1.14	1	1	3.1	9.3	31.0
740	1.20	1	1.2	4.1	12.0	41.0
750	1.25	1	1.5	5.0	15.0	50.0
760	1.31	1	1.8	6.0	18.0	60.0
770	1.37	1	2.1	7.0	21.0	70.0
780	1.43	1	2.4	8.0	24.0	80.0
790	1.50	1	2.7	9.0	27.0	90.0
800	1.56	1	3.0	10.0	30.0	100.0
850	1.95	1	3.0	10.0	30.0	100.0
900	2.44	1	3.0	10.0	30.0	100.0
950	3.05	1	3.0	10.0	30.0	100.0
1000	3.82	1	3.0	10.0	30.0	100.0
1050	4.78	1	3.0	10.0	30.0	100.0
1060	5.00	1	3.0	10.0	30.0	100.0
1100	5.00	1	3.0	10.0	30.0	100.0
1400	5.00	1	3.0	10.0	30.0	100.0
1500	1.0					
1540	100.0*					
1600	1.0					
100,000	1.0					

\*The factor  $k_1 = 100.0$  when  $t \leq 10^{-7}$ , and  $k_1 = 1.0$  when  $t > 10^{-7}$

Note: The variable (t) is the exposure duration in units of seconds.

## PROCEDURE

In addition to measurements made in Army and other government laboratories, personnel of the Laser Microwave Division visited a number of laser manufacturers and nongovernment research laboratories to corroborate the manufacturers' published specifications for different types of lasers. At each company visited the output characteristics of commercial laser products were reviewed and detailed measurements were made of selected lasers. The optical power instrumentation used by each manufacturer for output measurements was intercompared with the Scientech Disc Calorimeter used for calibration by the Laser Microwave Division. This intercomparison was also performed with laser output measurements at three private research laboratories. The manufacturers and laboratories visited are listed in Tables 7 and 8. Each manufacturer was also contacted by mail in an effort to corroborate the first draft of the computer listing.

The following instruments were used to measure the output characteristics of representative lasers:

1. Scientech Models 362 and 364 Disc Calorimeter Power Meters -- CW lasers.
2. EG&G Model 580 Radiometer System -- pulsed and CW lasers.
3. Cintra Model 202 Thermal Radiometer -- far-infrared CW lasers.
4. United Detector Technology, Inc., Model 40X Optometer -- laser diodes and visible CW lasers.
5. Photo-Metrics, Inc., EDP Scanning Microscope -- laser diodes and diode photographic images.
6. Laser Precision Corp. Model RK 3230 Energy Meter -- infrared pulsed lasers.
7. Molelectron Model PR-100 Pyroelectric Radiometer -- CW lasers.
8. TRG Model 108 Ballistic Thermopile with Model 113 Energy Meter -- pulsed ruby and neodymium lasers.
9. Calibrated apertures -- measurement of beam diameter and divergence.

A computer program to calculate emergent beam irradiance at the beam axis, hazardous range, and hazard classification was developed in a Fortran V language for a UNIVAC 1108 computer. The input data included the lasers' specifications or measured parameters. The data were recorded on a standard form and were then keypunched onto three or more computer cards. The following information was included:

1. Manufacturer
2. Model number
3. Active medium
4. Wavelength in nanometers (nm)
5. Emergent beam diameter in centimeters (cm) specified at  $1/e^2$  of peak irradiance points

6. Emergent beam divergence in milliradians (mrad)
7. Beam shape code: circular, square, rectangular, etc.
8. Output power in watts (W) or energy in joules (J)
9. Mode of energy/power specification -- for example, "TEM<sub>00</sub>," "avg," "peak," "TEM<sub>00</sub>," "multimode," etc.
10. Pulse repetition frequency (PRF) in pulses per second (PPS) or Hertz (Hz) or pulses per minute (PPM)
11. Pulse duration ("pulse width") in seconds (s)
12. Application code based on 14 general groups of applications
13. Enclosure (if enclosed to Class I levels)
14. Specific comments

The output of the program, the laser hazard classification guide, is tabular and is given in the Appendix. The guide is alphabetized by manufacturer. In addition to the input data above, the calculated axial beam irradiance ( $Wcm^{-2}$ ), or radiant exposure ( $Jcm^{-2}$ ), and the hazard classification are listed. Because the computer print-out was limited to capital Roman letters, the accepted unit abbreviations could not always be used. For example, milliwatt should be abbreviated as mW but is printed as "MW," and megawatt, which should be abbreviated as MW, is printed as "MGW." (See Appendix for further explanation of the abbreviations.)

Table 7. Manufacturers Visited by USAEHA

	<u>Date of Visit</u>	<u>Detailed Measurements</u>	<u>Inter-comparison</u>
Apollo Lasers, Los Angeles, CA	24 June 75		
Automatic Grade Light (Blount and George) Jacksonville, AR	10 June 75	✓	✓
Chromatix, Mountain View, CA	26 June 75		
Coherent Radiation, Palo Alto, CA	26 June 75	✓	✓
CW Radiation, Inc., Mountain View, CA	26 June 75		✓
EOCOM Corp., Irvine, CA	24 June 75		
GTE Sylvania, Mountain View, CA	26 June 75		
Keuffel and Esser, Morristown, NJ	18 June 75		
Korad Division of Hadron, Santa Monica, CA	23 June 75		
Laser Alignment, Inc., Grand Rapids, MI	18 June 75	✓	✓
Laser Holography Inc., Santa Barbara, CA	23 June 75		
Lexel, Inc., Palo Alto, CA	25 June 75		✓
Liconix, Mountain View, CA	25 June 75		✓
Metrologic, Inc., Bellmawr, NJ	6 June 75	✓	✓
Molelectron, Inc., Sunnyvale, CA	26 June 75		✓
Quantronix, Inc., Smithtown, NJ	17 June 75		✓
Quantrad Corp., El Segundo, CA	24 June 75		✓
Spectra Physics, Inc., Mountain View, CA	25 June 75	✓	✓
Trice V Developments*	7 Jan 75	✓	
United Aircraft/Hamilton Standard, Winsor Locks, CT			

\* Manufacturer visited USAEHA with laser

Table 8. Laboratories Visited by USAEHA

	<u>Date</u>	<u>Number of Lasers Studied</u>
Bell Telephone Laboratories Murray Hill, New Jersey	18 June 75	8
Riverside Research Institute New York, New York	17 June 75	5
Western Electric Research Laboratories Princeton, New Jersey	5-6 June 75	10

## RESULTS

The output parameter most crucial in determining the laser's hazard classification is radiant energy-per-pulse (J) for a pulsed laser or radiant power (W) output for a CW laser. In some instances, the emergent beam diameter can influence the classification. The visits of USAEHA personnel to laser manufacturers indicated that the output specifications presently quoted by the manufacturers can be considered reliable. Outputs of pre-1968 lasers were generally well below specifications -- probably due to deterioration of components.

The results of the intercomparison showed that the manufacturers' reference power meters were within 3 percent of the USAEHA electrically-calibrated disc calorimeter with the exception of one manufacturer's radiant power meter which had a 10-percent difference. This manufacturer has since informed us that his instrument was found to be in error. Upon recalibration, the intercomparison is within one percent.

## CONCLUSIONS

Most lasers can be classified using the manufacturers' specifications if the user has not modified the laser. The present list is as accurate as possible within the framework of this study. The many helium-neon lasers specified as 1.0 mW output power were placed in Class IIIa since these lasers originally had an output power exceeding 1.0 mW at the time of manufacture. As an added precaution, the user of this list should check the specifications available in the manual supplied with the particular laser against the parameters listed in the computer print-out. Errors found in the output specifications or laser classifications should be reported by mail to NIOSH, Physical Agents Effects Branch, B-4, DBBS, Robert A. Taft Laboratories, 4676 Columbia Parkway, Cincinnati, Ohio 45226, and to Commander, U.S. Army Environmental Hygiene Agency, ATTN: HSE-RL, Aberdeen Proving Ground, Md. 21010.

## REFERENCES

1. Draft version (unpublished) Code of Federal Regulations, 29 CFR Part 1910.97 Laser Radiation. Office of Standards Development, Occupational Safety and Health Administration, U. S. Department of Labor.
2. American National Standard for the Safe Use of Lasers (ANSI Z136.1-1973), American National Standards Institute, New York, New York 10018, 1973.
3. Code of Federal Regulations, 21 CFR Part 1040.10, Laser Products, Federal Register (FR) vol. 40, No. 148, 31 July 1975, pp. 32257-66.
4. TB MED 279, Control of Hazards to Health from Laser Radiation, Department of the Army Technical Bulletin, Headquarters, Department of the Army, Washington, DC (30 May 1975).

## APPENDIX

### COMMERCIAL LASER CLASSIFICATION LISTING

The Appendix provides a list of most standard commercial laser products that have been produced up to the time of this study. A classification has been assigned to each laser based upon the limits given in Tables 1-4. In cases where the manufacturers' data was insufficient to classify the laser, the laser was not classified. A provisional class was designated for some pulsed lasers when it was necessary to assign a value for missing data. In all such cases, a note specifying "insufficient information" or "provisional classification" appears in the application/comments column. Many laser models will be listed more than once since several manufacturers changed names and the same model may be listed under these different names. Some model listings may have never been produced, but were advertised for sale.

Because the list is a computer print-out and all letters are capitalized, a list of abbreviations is provided. In addition, extreme care must be taken in reading the figures as the decimal point in some instances is not immediately obvious.

#### Abbreviations:

##### 1. Power

- (a)  $10^{-9}$  W = nanowatt, nW = NW in this listing
- (b)  $10^{-6}$  W = microwatt,  $\mu$ W = UW in this listing
- (c)  $10^{-3}$  W = milliwatt, mW = MW in this listing
- (d) 1.0 W = watt, W = W in this listing
- (e)  $10^3$  W = kilowatt, kW = KW in this listing
- (f)  $10^6$  W = megawatt, MW = MGW in this listing
- (g)  $10^9$  W = gigawatt, GW = GW in this listing

##### 2. Energy

- (a)  $10^{-9}$  J = nanojoules, nJ = NJ in this listing
- (b)  $10^{-6}$  J = microjoules,  $\mu$ J = UJ in this listing
- (c)  $10^{-3}$  J = millijoules, mJ = MJ in this listing
- (d) 1.0 J = joules, J = J in this listing
- (e)  $10^3$  J = kilojoules, kJ = KJ in this listing

3. Power or Energy Modes

- (a) MULTI = multimode power or energy
- (b) TEM00 = TEM<sub>00</sub> single mode operation
- (c) AVER = average power
- (d) CW = continuous wave power
- (e) PEAK = peak power
- (f) MAX = maximum output

4. Pulse Repetition Rate

- (a) P/S or Hz = pulses per second
- (b) P/M = pulses per minute
- (c) P/H = pulses per hour
- (d) N/A = continuous wave laser therefore not applicable

5. Pulse Width

- (a)  $10^{-9}$  s = nanosecond, ns = NS in this listing
- (b)  $10^{-6}$  s = microsecond,  $\mu$ s = US in this listing
- (c)  $10^{-3}$  s = millisecond, ms = MS in this listing
- (d) 1.0 s = second, s = S in this listing

6. Irradiance and Radiant Exposure

- (a)  $W\text{ cm}^{-2}$  = watt per square centimeter = W/CM2 in this listing
- (b)  $J\text{ cm}^{-2}$  = joule per square centimeter = J/CM2
- (c) Similar for other units of power and energy

7. Hazard Class

- (a) Class I = I in this listing
- (b) Class II = II in this listing
- (c) Class IIIa = IIIA in this listing
- (d) Class IIIb = IIIB in this listing
- (e) Class IV = IV in this listing

L A S E R   H A Z A R D   C L A S S I F I C A T I O N   G U I D E

MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE-LENGTH (NM)	DIA-METER (CM)	DIVER-GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
ADMIRAL 7400 HELIUM NEON (HENE)	IIIB	632.8 1153				1.00 TO 3.00 MW			2.59 MW/CM2 7.78	RESEARCH & OEM
ADMIRAL 7401 HE-NE LOW POWER		632.8								RESEARCH & OEM INSUFFICIENT INFORMATION
ADVANCED KINETICS FIRM HYDROGEN CYANIDE (HCN)	IV	337UM	1.00	40.0	CIRC	10.0 MW TEM00 1.00 W			12.7 MW/CM2 1.27 W/CM2	RESEARCH & OEM
ADVANCED KINETICS FIRMLP HYDROGEN CYANIDE (HCN)	IV	337UM	0.100 2.00		CIRC CIRC	10.0 J TEM00	1.00 P/S 10.0	10.0 US 50.0	12.7 J/CM2	RESEARCH & OEM
ADVANCED KINETICS FIRML HYDROGEN CYANIDE (HCN)	IV	337UM	0.100 2.00	40.0	CIRC CIRC	1.00 W TEM00			1.27 W/CM2	RESEARCH & OEM
ADVANCED KINETICS FIRML WATER (H2O)	I	118UM	0.100 2.00	15.0	CIRC CIRC	10.0 MW TEM00			12.7 MW/CM2	RESEARCH & OEM
ADVANCED KINETICS FIRPL CH-COMP	IIIB	30.0 1000	0.200 0.500	20.0	CIRC CIRC	10.0 MW TEM00			635 MW/CM2	RESEARCH & OEM WAVELENGTH IN UM
ADVANCED KINETICS FIRMLP H2O	IV	118UM	0.100 2.00	15.0	CIRC CIRC	10.0 J TEM00	1.00 P/S 10.0	10.0 US 20.0	12.7 J/CM2	RESEARCH & OEM
ADVANCED KINETICS FIRMLP CARBON DIOXIDE (CO2)	IV	10600 10000	0.100	5.00	CIRC	10.0 J TEM00	1.00 P/S 100	1.00 US 10.0	1.27 KJ/CM2	RESEARCH & OEM
ADVANCED KINETICS FIR H2O	I	118UM	0.500	10.0	CIRC	1.00 MW TEM00 10.0			1.27 MW/CM2 12.7	RESEARCH & OEM
ADVANCED KINETICS IRL CARBON DIOXIDE (CO2)	IV	10600	0.300	3.00	CIRC	100 W TEM00			2.82 KW/CM2	RESEARCH & OEM
ADVANCED KINETICS FIRML-3-150 HYDROGEN CYANIDE (HCN)	I	337UM		40.0		50.0 MW TEM00			63.5 MW/CM2	RESEARCH & OEM
ADVANCED KINETICS FIRM-3-150P HYDROGEN CYANIDE (HCN)	I	337UM		40.0		0.250 W PEAK	1.00 TO 10.0 P/S	30.0 US	9.53 UJ/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
ADVANCED KINETICS FIRML-3-150P HYDROGEN CYANIDE (HCN)	IV	337UM	(.1)	40.0		250 MW AVER	1.00 TO 10.0 P/S	30.0 US	317 MJ/CM2	RESEARCH & OEM PROVISIONAL, -OSHA- CLASSIFICATION
ADVANCED KINETICS FIRML-6-150 HYDROGEN CYANIDE (HCN)	IV	337UM		40.0		1.00 W TEM00	N/A		1.27 W/CM2	RESEARCH & OEM
ADVANCED KINETICS FIRML-75 HYDROGEN CYANIDE (HCN)	I	337UM	0.800	50.0	CIRC	5.00 TO 20.0 MW	N/A		6.35 MW/CM2 25.4	RESEARCH & OEM
ADVANCED KINETICS FIRML-75 WATER (H2O)	I	118UM	0.300	45.0	CIRC	0.100 TO 0.500 MW	N/A		127 UJ/CM2 635	RESEARCH & OEM
ADVANCED KINETICS FIRML-100 HYDROGEN CYANIDE (HCN)	I	337UM	1.20	35.0	CIRC	10.0 TO 50.0 MW	N/A		12.7 MW/CM2 63.5	RESEARCH & OEM
ADVANCED KINETICS FIRML-100 WATER (H2O)	I	118UM	0.400	35.0	CIRC	0.500 TO 2.00 MW	N/A		635 UJ/CM2 2.54 MJ/CM2	RESEARCH & OEM
ADVANCED KINETICS FIRML-150 HYDROGEN CYANIDE (HCN)	IIIB	337UM	2.00	20.0	CIRC	50.0 TO 250 MW	N/A		31.7 MW/CM2 159	RESEARCH & OEM
ADVANCED KINETICS FIRML-150 WATER (H2O)	I	118UM	0.500	30.0	CIRC	1.00 TO 10.0 MW	N/A		1.27 MW/CM2 12.7	RESEARCH & OEM
ADVANCED KINETICS FIRML-75-P HYDROGEN CYANIDE (HCN)	IIIB	337UM	0.800	50.0	CIRC	20.0 TO 80.0 MJ	1.00 TO 10.0 P/S	10.0 US 30.0	25.4 MJ/CM2 102	RESEARCH & OEM
ADVANCED KINETICS FIRML-75-P WATER (H2O)	I	118UM	0.300	45.0	CIRC	0.500 TO 2.00 MJ	1.00 TO 10.0 P/S	10.0 US 20.0	635 UJ/CM2 2.54 MJ/CM2	RESEARCH & OEM
ADVANCED KINETICS FIRML-100-P HYDROGEN CYANIDE (HCN)	IIIB	337UM	1.20	35.0	CIRC	40.0 TO 200 MJ	1.00 TO 10.0 P/S	10.0 US 30.0	50.8 MJ/CM2 254	RESEARCH & OEM
ADVANCED KINETICS FIRML-100-P WATER (H2O)	I	118UM	0.400	35.0	CIRC	2.00 TO 10.0 MJ	1.00 TO 10.0 P/S	10.0 US 20.0	2.54 MJ/CM2 12.7	RESEARCH & OEM
ADVANCED KINETICS FIRML-150-P HYDROGEN CYANIDE (HCN)	IV	337UM	2.00	20.0	CIRC	200 TO 800 MJ	1.00 TO 10.0 P/S	10.0 US 40.0	127 MJ/CM2 508	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	FULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
ADVANCED KINETICS FIRML-150-P WATER (H2O)	IIIB	11800	0.500	30.0	CIRC	4.00 TO 30.0 MJ	1.00 TO 10.0 P/S	10.0 US 20.0	5.08 MJ/CM2 38.1	RESEARCH & OEM
ADVANCED KINETICS IRL-50 CARBON DIOXIDE (CO2)	IV	10600	0.800	2.00	CIRC	50.0 W	N/A		198 W/CM2	RESEARCH & OEM
AEROTECH INC. 41 CARBON DIOXIDE (CO2)	IV	10600				15.0 KW PEAK	1.00 TO 100 P/S	1.00 MS 10000	1.90 MW/CM2	MAT. PROCESSING
AEROTECH 42 CARBON DIOXIDE (CO2)	IV	10600				1.00 KW PEAK	1.00 KHZ	0.100 MS 10000	127 KW/CM2	MAT. PROCESSING
AEROTECH 43 CARBON DIOXIDE (CO2)	IV	10600				30.0 KW PEAK		0.100 MS	381 J/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
AEROTECH ALS500 CARBON DIOXIDE (CO2)	IV ENCL	10600				500 W	N/A		63.5 KW/CM2	MAT. PROCESSING CLASS I AS ENCLOSED
AGA CORP MODEL 8 HELIUM NEON (HENE)	IIIB	632.8	0.840	0.100	CIRC	4.00 MW TEM00	N/A		10.4 MW/CM2	DIST. METER 5.5 KM CAUTION RNG 170 M HAZARD RNG
AGA CORP GEODIMETER 76 HELIUM NEON (HENE)	IIIB	632.8	1.10	1.30	CIRC	1.00 MW TEM00	N/A		2.10 MW/CM2	DIST. METER
AGA CORP GEODIMETER 8 HELIUM NEON (HENE)	IIIB	632.8	2.00	1.70	CIRC	5.00 MW TEM00	N/A		3.17 MW/CM2	DIST. METER
AGA CORP GEODIMETER NASM-4 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	1.30 MW AVER 4.00 MW MULTI			3.37 MW/CM2 10.4	DIST. METER PROVISIONAL -OSHA- CLASSIFICATION
AGA CORP 4L HELIUM NEON (HENE)	IIIB	632.8	1.20	0.100	CIRC	1.30 MW TEM00	N/A		2.29 MW/CM2	DIST. METER 10 M CAUTION RNG 3.5 KM HAZARD RNG
AGA CORP 4LA HELIUM NEON (HENE)	IIIB	632.8	0.700	0.070	CIRC	6.75 MW AVER			17.5 MW/CM2	DIST. METER 300 M CAUTION RNG 9 KM HAZARD RNG PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
ALCYON 41 CARBON DIOXIDE (CO2)	IV	10600	0.800	1.70	CIRC	250 W	N/A		992 W/CM2	RESEARCH & OEM
ALCYON 42 CARBON DIOXIDE (CO2)		10600	0.630	2.20	CIRC		N/A			RESEARCH & OEM INSUFFICIENT INFORMATION
ALCYON 52 ARGON/KRYPTON (AR/KR)	IV	457.9 676.4	0.140	0.800	CIRC	2.00 W 0.300	N/A		5.18 W/CM2 778 MW/CM2	RESEARCH & OEM
ALCYON 53 ARGON/KRYPTON (AR/KR)	IV	457.9 676.4	0.150	0.600	CIRC	6.00 W 1.00	N/A		15.6 W/CM2 2.59	RESEARCH & OEM
ALCYON 54 ARGON (AR)	IIIB	476.5 514.5	0.110	0.900	CIRC	0.500 W	N/A		1.30 W/CM2	RESEARCH & OEM
ALCYON ML 01 A RUBY	IV	694.3	0.600	1.00	CIRC	30.0 J	0.300 P/S	500 US 10000	77.8 J/CM2	RESEARCH & OEM
ALCYON ML 01 B RUBY	IV	694.3	0.800	1.00	CIRC	100 J	1.00 P/S	500 US 20000	259 J/CM2	RESEARCH & OEM
ALCYON ML 01 C NEODYMIUM YAG (ND YAG)	IV	1064	0.400	0.050	CIRC	1.00 J	10.0 P/S	50.0 US 500	2.59 J/CM2	RESEARCH & OEM
ALCYON ML 02 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	1.00	CIRC	1.00 J	1.00 P/S	200 US 1500	2.59 J/CM2	RESEARCH & OEM
ALCYON ML 02Q NEODYMIUM YAG (ND YAG)	IV	1064	0.500	0.500	CIRC	0.500 J 50.0MGW PEAK	1.00 P/S	10.0 NS	1.30 J/CM2	RESEARCH & OEM
ALLIED 930,930-30 GRADE HE-NE ADJUSTMENT	IIIB	632.8	0.950		CIRC	2.00 MW	N/A		5.18 MW/CM2	LEVELING/ALIGNMENT
ALPHA SCIENTIFIC L15 RUBY		694.3				1.00MGW PEAK	5.00 P/M			RESEARCH & OEM INSUFFICIENT INFORMATION
ALPHA SCIENTIFIC L16 NEODYMIUM GLASS		1060				1.00MGW PEAK	5.00 P/M			RESEARCH & OEM INSUFFICIENT INFORMATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- BEAM GENGE SHAPE (MRAD)	OUTPUT POWER/ENERGY	FULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS	
ALPHA SCIENTIFIC L18 HELIUM NEON (HENE)	IIIB	632.8		1.00 MW 5.00		N/A	2.59 MW/CM2 13.0	RESEARCH & OEM	
ALPHA SCIENTIFIC L19 ND+KDP		532.0		500 KW PEAK	1.00 P/M			RESEARCH & OEM INSUFFICIENT INFORMATION	
AMERICAN LASER 62 ARGON (AR)	IIIB	488.0 514.5 476.5	0.050	0.500 CIRC	25.0 MW TEM00		N/A	64.8 MW/CM2	RESEARCH & OEM
AMERICAN LASER 64 ARGON (AR)	IIIB	488.0 514.5 476.5	0.050	0.500 CIRC	100 MW TEM00		N/A	259 MW/CM2	RESEARCH & OEM
AMERICAN LASER 65 ARGON (AR)	IIIB C	488.0	(.1)		0.100 W AVER			259 MW/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
AMERICAN LASER 76 CARBON DIOXIDE (CO2)	IV	10600		3.40	250 W AVER		N/A	31.7 KW/CM2	RESEARCH & OEM
AMERICAN LASER 88 CARBON DIOXIDE (CO2)	IV	10600	1.00	0.400 CIRC	100 W		N/A	254 W/CM2	RESEARCH & OEM
AMERICAN LASER 90 ARGON (AR)	IV	488.0 514.5		1.40	2.00 W AVER	60.0 P/S	5.00 US	86.4 MJ/CM2	RESEARCH & OEM
AMERICAN LASER 90 CARBON DIOXIDE (CO2)	IV	10600	1.00	1.40 CIRC	300 W		N/A	762 W/CM2	RESEARCH & OEM
AMERICAN LASER 94 CARBON DIOXIDE (CO2)	IV	10600	1.00	1.40 CIRC	600 W		N/A	1.52 KW/CM2	RESEARCH & OEM
AMERICAN LASER 729-A SUPPLY 729-B GA-AS TRANSMITTER	IIIB	905.0	(.1)		12.0 W PEAK	25.0 TO 10000 P/S	100 NS	3.11 UJ/CM2	COMMUNICATOR PROVISIONAL -OSHA- CLASSIFICATION
AMERICAN LASER 733-A SUPPLY 733-B GA-AS TRANSMITTER	IIIB	905.0	(.1)		24.0 W PEAK	25.0 P/S	100 NS	6.22 UJ/CM2	COMMUNICATOR PROVISIONAL -OSHA- CLASSIFICATION
AMERICAN LASER 741 GA-AS COMMUNICATOR	I	890.0		2.50	1.00 W PEAK	300 TO 2300 P/S	10.0 NS	25.9 NJ/CM2	COMMUNICATOR

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
AMERICAN LASER 747 NG-TV TRANSMIT.SET	IIIB	930.0		2.50		4.00 MW		N/A	10.4 MW/CM2	COMMUNICATOR
AMERICAN OPTICAL UNI-LASER NEODYMIUM GLASS	IV	1060	0.300	90.0	CIRC	1.50 J 0.100 W CW	6.00 P/S	6.00 US	3.89 J/CM2 259 MW/CM2	SCIENTIFIC INSTR.
AMERICAN OPTICAL UNI-LASER NEODYMIUM GLASS	IV	1060	0.300	90.0	CIRC	1.50 J	6.00 P/M	0.500 MS	3.89 J/CM2	SCIENTIFIC INSTR.
AMERICAN OPTICAL AO-5 NEODYMIUM GLASS	IV	1060	0.400	3.00	CIRC	1.00 J	2.00 P/S	200 US	2.59 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-5 NEODYMIUM GLASS	IV	1060	0.400	1.50	CIRC	1.00 J	2.00 P/M	200 US	2.59 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-5P NEODYMIUM GLASS	IV	1060	0.400	3.00	CIRC	0.100 J	1.00 P/S	40.0 NS	259 MJ/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-5Q NEODYMIUM GLASS	IV	1060	0.400	1.50	CIRC	0.100 J	1.00 P/M	0.040 US	259 MJ/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-5R NEODYMIUM GLASS	IV	1060	0.400	3.00	CIRC	1.00 J		200 US	2.59 J/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
AMERICAN OPTICAL 7 NEODYMIUM GLASS	IV	1060		5.00		1.00 J 10.0 W CW	20.0 P/S	300 US	2.59 J/CM2 25.9 W/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-7 NEODYMIUM GLASS	IV	1060		5.00		1.00 J	20.0 P/S	300 US	2.59 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL 10 NEODYMIUM GLASS	IV	1060				15.0 J	10.0 P/S		38.9 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
AMERICAN OPTICAL AO-10 NEODYMIUM GLASS	IV	1060				15.0 J	10.0 P/M		38.9 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
AMERICAN OPTICAL AO-11 NEODYMIUM GLASS	IV	1060	0.600	8.00	CIRC	20.0 J 15.0	30.0 P/S	600 US	51.8 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- BEAM GENCE SHAPE (MRAD)	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
AMERICAN OPTICAL AO-11 NEODYMIUM GLASS	IV	1060 0.600	2.00 CIRC 7.00	25.0 J	30.0 P/M	500 US	64.8 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-11P ND	IV	1060 0.600	3.00 CIRC	1.70 J	4.00 P/S	30.0 NS	4.41 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-11Q NEODYMIUM GLASS	IV	1060 0.600	1.50 CIRC 2.50	1.50 J	4.00 P/M	0.030 US	3.89 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-14 NEODYMIUM GLASS	IV	1060 0.300 0.900	2.50 RECT	35.0 J	60.0 P/M	1.00 MS	130 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL 20 NEODYMIUM GLASS	IV	1060	18.0	60.0 MW CW 75.0 J	5.00 P/S	0.500 MS 3.00	156 MW/CM2 194 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-20P ND	IV	1060 0.900	3.00 CIRC 5.00	5.00 J	4.00 P/S	30.0 NS	13.0 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-20Q NEODYMIUM GLASS	IV	1060 0.900	1.50 CIRC 2.50	5.00 J	4.00 P/M	30.0 NS	13.0 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-25R NEODYMIUM GLASS	IV	1060 0.500	2.00 CIRC 4.00	100 J	30.0 P/S	500 US	259 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL 30 NEODYMIUM GLASS	IV	1060	18.0	150 J 100MW FFAK	5.00 P/S	0.500 MS 3.00	389 J/CM2 778 KJ/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-30P NEODYMIUM GLASS	IV	1060 1.20	3.00 CIRC 5.00	9.00 J	4.00 P/S	30.0 NS	15.9 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-30Q NEODYMIUM GLASS	IV	1060 1.20	1.50 CIRC 2.00	9.00 J	0.510 P/M	30.0 NS	15.9 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-30SH ND+KDP	IV	530.0 1.20	1.00 CIRC 5.00	0.250 J	2.00 P/S	20.0 NS	441 WJ/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-35 CARBON DIOXIDE (CO2)	IV	10600 2.10	2.00 CIRC	60.0 W THRU	N/A		34.5 W/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENRGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
AMERICAN OPTICAL AO-35 CARBON DIOXIDE (CO2)	IV	10600		2.00		20.0 W TEM00 60.0 W MULTI		N/A	2.54 W/CM2 7.62	RESEARCH & OEM
AMERICAN OPTICAL AO-40 NEODYMIUM GLASS	IV	1060	1.90	4.00 18.0	CIRC	500 J	3.00 P/S	600 US	352 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-45 CARBON DIOXIDE (CO2)	IV	10600	2.50	2.00	CIRC	250 W TEM00		N/A	102 W/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-45 CARBON DIOXIDE (CO2)	IV	10600		1.50		300 W AVER 400		250 US	38.1 KJ/CM2 50.8	RESEARCH & OEM
AMERICAN OPTICAL AO-50 NEODYMIUM GLASS	IV	1060	2.50	2.00	CIRC	30.0 J	1.00 TO 3.00 P/S	30.0 NS	12.2 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-55 CARBON DIOXIDE (CO2)	IV	10600	1.20	0.750	CIRC	75.0 W TEM00 150 W MULTI		N/A	132 W/CM2 265	RESEARCH & OEM
AMERICAN OPTICAL 60 NEODYMIUM GLASS	IV	1060		5.00		60.0 J 1000MGW PEAK	12.0 P/H	60.0 NS	156 J/CM2 156	RESEARCH & OEM
AMERICAN OPTICAL AO-61 NEODYMIUM GLASS	IV	1060	3.80	2.00	CIRC	60.0 J	1.00 TO 5.00 P/S	30.0 NS	10.6 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-63UG NEODYMIUM GLASS	IV	530.0	3.00	0.050	CIRC	20.0 J	0.200 P/H	0.020 US	5.64 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL 70 NEODYMIUM GLASS	IV	1060		5.00		90.0 J 2000MGW PEAK	12.0 P/H	45.0 NS	233 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-71 NEODYMIUM GLASS	IV	1060	5.10	1.50	CIRC	120 J	1.00 P/S	30.0 NS	11.7 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-71P NEODYMIUM GLASS	IV	1060	5.10		CIRC	60.0 J	1.00 TO 10.0 P/S	3.00 PS	5.86 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-C-200 CARBON DIOXIDE (CO2)	IV	10600	2.50	2.00	CIRC	300 W TEM00		N/A	122 W/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
AMERICAN OPTICAL AO 401UV NEODYMIUM GLASS	IV	1060 530.0 265.0	1.50	0.250	CIRC	1.00 J 50.0MGW PEAK	1.00 P/M	0.020 US	1.13 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO-502Q NEODYMIUM GLASS	IV	1060	2.50	1.00	CIRC	30.0 J	0.320 P/M	30.0 NS	12.2 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO 631G NEODYMIUM GLASS	IV	1060 530.0	3.00	0.050	CIRC	1.00 GW PEAK 20.0 J	0.200 P/M	0.020 US	5.64 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL AO 742P NEODYMIUM GLASS	IV	1060	5.00	0.500	CIRC	60.0 J 6.00 TW PEAK	0.100 P/M	10.0 PS	6.09 J/CM2 6.09	RESEARCH & OEM
AMERICAN OPTICAL AO-742Q NEODYMIUM GLASS	IV	1060	5.00	0.500	CIRC	120 J	0.140 P/M	30.0 NS	12.2 J/CM2	RESEARCH & OEM
AMERICAN OPTICAL 3100 HELIUM NEON (HENE)	IIIB	632.8	0.200	0.300	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM2	EDUCATION
AMERICAN OPTICAL 5000 NEODYMIUM GLASS	IV	1060		15.0		5000 J	12.0 P/H	3.00 MS	13.0 KJ/CM2	RESEARCH & OEM
AMERICAN OPTICAL SURGICAL LASER CARBON DIOXIDE (CO2)	IV	10600	1.00	200	CIRC	80.0 W	N/A		203 W/CM2	MEDICAL
APPLIED LASERS	SEE SPACERAYS									
APOLLO LASER WELDER-DRIL. RUBY-ND GLASS-YAG	IV	694.3 1060		8.00		80.0 J	10.0 P/M	1.00 MS 10.0	207 J/CM2	MAT. PROCESSING
APOLLO X CARBON DIOXIDE (CO2) DUTY CYCLE 1 %	IV	10600	0.800		CIRC	4.00 W 10.0 1.00 4.00	AVER 10.0 TO 1000 P/S	20.0 US 1.00 MS	15.9 J/CM2 39.7 3.97 15.9	RESEARCH & OEM
APOLLO XII CARBON DIOXIDE (CO2)	IV	10600	1.00		CIRC	5.00 W 30.0	MULTI N/A		12.7 W/CM2 76.2	RESEARCH & OEM
APOLLO XA,SC CARBON DIOXIDE (CO2)	IV	10600				35.0 W 70.0	AVER 100 P/S	250 US	44.4 J/CM2 88.9	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVFR- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
APOLLO X4XB CARBON DIOXIDE (CO2)	IV	10600				3.00 W AVER 6.00 W MULTI	100 P/S	250 US	3.81 J/CM2 7.62	RESEARCH & OEM
APOLLO XF SERIES CARBON DIOXIDE (CO2)	IV	10600	0.300 0.800	5.00	CIRC CIRC	9.00 W TEMOD 12.0 W MULTI	N/A		254 W/CM2 339	RESEARCH & OEM
APOLLO 5 RUBY/GLASS	IV	694.3 1060				2.50 W AVER		500 US	6.48 J/CM2	RESEARCH & OEM INDICATED POWER IS ESTIMATED NOT SPEC
APOLLO LASER 22 RUBY	IV	694.3	1.60	5.00	CIRC	30.0 J	4.00 P/M	800 US	29.8 J/CM2	MAT. PROCESSING
APOLLO 22H RUBY	IV	694.3	3.00	0.500	CIRC	40.0 MJ TEMOD 20.0MGW PEAK	4.00 P/M	0.690 US	11.3 MJ/CM2 3.89 J/CM2	RESEARCH & OEM
APOLLO 35 RUBYIND GLASS	IV	694.3 1060	1.50 2.00	2.00 0.500	CIRC CIRC	12.0 J 40.0	4.00 P/M 1.00	10.0 NS 20.0	13.5 J/CM2 25.4 28.2	RESEARCH & OEM
APOLLO 350 CO2 LASERTRIM	IV	10600	0.600	2.20	CIRC	50.0 W AVER	1.00 P/S	250 US	353 J/CM2	MAT. PROCESSING
APOLLO 350 & 370 CARBON DIOXIDE (CO2)	IV	10600	0.600	2.20	CIRC	50.0 W AVER	1.00 TO 1000 P/S	1.00 MS 10000	353 W/CM2	MAT. PROCESSING
APOLLO 500 CARBON DIOXIDE (CO2)	IV	10600		2.10		250 W PEAK 50.0 W CW	1000 P/S	250 US	7.94 J/CM2 6.35 KW/CM2	RESEARCH & OEM
APOLLO 500 SERIES CARBON DIOXIDE (CO2)	IV	10600	0.600	2.20	CIRC	50.0 W TEMOD	N/A		353 W/CM2	RESEARCH & OEM
APOLLO LASERS 500L CO2 GAS FLOW SYST.	IV	10600	0.600	2.20	CIRC	50.0 W CW 250 W PEAK	300 P/S	200 NS 400	353 W/CM2 705 UJ/CM2	RESEARCH & OEM PEAK POWER WITH NO 1851 Q-SWITCH ACCE
APOLLO LASERS 550 CO2 TUNABLE	IV	9815 TO 10441	0.600		CIRC	15.0 W TEMOD	N/A		106 W/CM2	RESEARCH & OEM TUNABLE IN THE RAN GE 9.4-10.9 UM BY
APOLLO LASERS 500 CO2/HE/N2 GAS	IV	10600	0.600	2.20	CIRC	50.0 W CW	1.00 TO 1000 P/S	1.00 MS 10.0 S	353 W/CM2	RESEARCH & OEM PULSING CKT. ACCES. 200W PEAK AT 300

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- BEAM GENCE SHAPE (MRAD)	OUTPUT POWER/ENERGY	FULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
APOLLO LASERS X-1015 CO2 SEALED OFF	IV	10600 0.800	CIRC	6.00 W MULTI		N/A	23.8 W/CM2	RESEARCH & OEM
APOLLO LASERS XB-1020 CO2 SEALED OFF	IV	10600 0.300	CIRC	3.00 W TEM00		N/A	42.3 W/CM2	RESEARCH & OEM BEAM DIAM. REFERS TO ONE HALF POWER
APOLLO LASERS XP-1021 CO2 SEALED OFF	IV	10600 0.300	CIRC	2.50 W TEM00		N/A	35.3 W/CM2	RESEARCH & OEM BEAM DIAM. REFERS TO ONE HALF POWER
APOLLO LASERS XC-1060 CO2 SEALED OFF	IIIB	10600 0.300	CIRC	35.0 W PEAK	10.0 TO 100 P/S	250 US	123 MJ/CM2	RESEARCH & OEM BEAM DIAM. REFERS TO ONE HALF POWER
APOLLO LASERS XVF CARBON DIOXIDE (CO2)	IV	10600 0.600	5.00 CIRC	5.00 W TEM00		N/A	35.3 W/CM2	RESEARCH & OEM
APOLLO LASERS XF-1870 CARBON DIOXIDE (CO2)	IV	10600 0.800	CIRC	12.0 W MULTI		N/A	47.6 W/CM2	RESEARCH & OEM
APOLLO LASERS XFC-1871 CARBON DIOXIDE (CO2)	IV	10600 0.300	CIRC	60.0 W PEAK	10.0 P/S 100	250 US	212 MJ/CM2	RESEARCH & OEM BEAM DIAM. REFERS TO ONE HALF POWER
APOLLO LASERS XFP-1872 CARBON DIOXIDE (CO2)	IV	10600 0.300	CIRC	4.00 W TEM00		N/A	56.4 W/CM2	RESEARCH & OEM BEAM DIAM. REFERS TO ONE HALF POWER
APOLLO LASERS XFB-1875 CARBON DIOXIDE (CO2)	IV	10600 0.300	CIRC	7.00 W TEM00		N/A	98.8 W/CM2	RESEARCH & OEM BEAM DIAM. REFERS TO ONE HALF POWER
APOLLO LASERS 31002 (CATALOG) RUBY	IV	694.3 0.952	3.00 CIRC 5.00	100MGW PEAK	4.00 P/M	15.0 NS 25.0	3.89 J/CM2	RESEARCH & OEM
APOLLO LASERS 11002 (CATALOG NO) RUBY	IV	694.3 1.58	3.00 CIRC	200MGW PEAK	4.00 P/M	15.0 NS 25.0	5.09 J/CM2	RESEARCH & OEM
APOLLO LASERS 11010 (CATALOG NO) RUBY	IV	694.3 1.58	3.00 CIRC	250MGW PEAK	4.00 P/M	15.0 NS 25.0	6.36 J/CM2	RESEARCH & OEM
APOLLO LASERS 26015 RUBY	IV	694.3 1.58	2.00 CIRC	400MGW PEAK	4.00 P/M	15.0 NS 25.0	10.2 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCF (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
APOLLO LASERS 26015 (CATALOG NO) RUBY	IV	694.3	1.58	2.00	CIRC	600MGW PEAK	4.00 P/M	15.0 NS 25.0	15.3 J/CM2	RESEARCH & OEM
APOLLO LASERS 26100 (CATALOG NO) RUBY	IV	694.3	1.58	2.00	CIRC	100MGW PEAK	4.00 P/M	15.0 NS 25.0	17.8 J/CM2	RESEARCH & OEM
APOLLO LASERS 31022 (CATALOG NO) NEODYMIUM GLASS	IV	1060	0.952	3.00 5.00	CIRC	100MGW PEAK	4.00 P/M	15.0 NS 25.0	6.48 J/CM2	RESEARCH & OEM
APOLLO LASERS 21002 (CATALOG NO) NEODYMIUM GLASS	IV	1060	1.58	3.00	CIRC	200MGW PEAK	4.00 P/M	15.0 NS 25.0	5.09 J/CM2	RESEARCH & OEM
APOLLO LASERS 26145 (CATALOG NO) NEODYMIUM GLASS	IV	1060	1.58	2.00	CIRC	750MGW PEAK	4.00 P/M	15.0 NS 25.0	19.1 J/CM2	RESEARCH & OEM
APOLLO LASERS 26150 (CATALOG NO) NEODYMIUM GLASS	IV	1060	1.58	2.00	CIRC	2.00 GW PEAK	1.00 P/M	15.0 NS 25.0	50.9 J/CM2	RESEARCH & OEM
APOLLO LASERS 26200 (CATALOG NO) NEODYMIUM GLASS	IV	1060	3.18	1.00	CIRC	5.00 GW PEAK	0.250 P/M	15.0 NS 25.0	31.4 J/CM2	RESEARCH & OEM
ARVIN SYSTEMS INC RESISTOR TRIMMER CARBON DIOXIDE (CO2)	IV	10600				1.50 W CW 50.0 KW PEAK		50.0 NS	191 W/CM2 318 MJ/CM2	MAT. PROCESSING
ASTRO MARINE PDCTS L100 CAW03	IIIB	2060	(.1)			100 MJ			12.7 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
ASTRO MARINE PDCTS L300 RUBY	IV	694.3	(.1)			300 MJ	1.33 P/M	0.500 MS	778 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
AVCO EVERETT C-102 NITROGEN (N2)	IIIB	337.1	3.20 35.0	20.0	RECT	1.00 MJ	100 P/S	10.0 NS	8.93 UJ/CM2	RESEARCH & OEM
AVCO EVERETT C100/3 NITROGEN (N2)	IIIB	337.1	35.0 3.20	20.0	RECT	2.00 MJ	10.0 P/S	10.0 NS	17.9 UJ/CM2	RESEARCH & OEM
AVCO EVERETT C-400 NITROGEN (N2)	IIIB	337.1	0.160 2.50	1.50 24.0	RECT	20.0 KW PEAK 20.0 MW AVER	1.00 TO 100 P/S	10.0 NS	500 UJ/CM2 50.0 MJ/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	FULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
AVCO EVERETT C-400-A NITROGEN (N2)	IIIB	337.1	0.160 2.50	1.50 24.0	RECT	20.0 KW PEAK 100 MW AVER	5.00 TO 500 P/S	10.0 NS	500 UJ/CM2 250 MJ/CM2 500 UJ/CM2	RESEARCH & OEM
AVCO EVERETT C950 NITROGEN/NEON (N2/NE2)	IIIB	337.0 540.0	0.330 5.10	2.00 30.0	RECT	100 W AVER 3.00 MW	1.00 TO 100 P/S	0.100 US 3.00 NS	59.4 MJ/CM2 1.78	RESEARCH & OEM
AVCO EVERETT C-950-A NITROGEN (N2)	IIIB	337.1	0.320 5.10	2.00 30.0	RECT	100 KW PEAK 100 MW AVER	2.00 TO 200 P/S	3.00 NS	184 UJ/CM2 61.3 MJ/CM2 306 UJ/CM2	RESEARCH & OEM
AVCO EVERETT C-950-A NEON (NE2)	IIIB	540.1	0.320 5.10	2.00 30.0	RECT	10.0 KW PEAK 3.00 MW AVER	2.00 TO 220 P/S	3.00 NS	18.4 UJ/CM2 1.84 MJ/CM2	RESEARCH & OEM
AVCO EVERETT C-950-B NITROGEN (N2)	IIIB	337.1	0.320 5.10	2.00 30.0	RECT	250 KW PEAK 125 MW AVER	0.500 TO 50.0 P/S	10.0 NS	1.53 MJ/CM2 76.6 1.53	RESEARCH & OEM
AVCO EVERETT 1000-A ORGANIC DYE	IV	360.0 TO 670.0	0.100	2.00	CIRC	2.00 W AVER 150 UJ	2.00 TO 200 P/S	2.00 NS 8.00	254 J/CM2 19.1 MJ/CM2	RESEARCH & OEM
AVCO EVERETT 1000-B ORGANIC DYE	IV	360.0 TO 670.0	0.100	2.00	CIRC	4.00 UJ 300	5.00 TO 50.0 P/S	2.00 NS 8.00	508 UJ/CM2 38.1 MJ/CM2	RESEARCH & OEM
AVCO EVERETT 2000 AND 2000-A ORGANIC DYE	IV	360.0 TO 670.0	0.100	2.00	CIRC	2.00 UJ 150	5.00 TO 500 P/S	2.00 NS 8.00	254 UJ/CM2 19.1 MJ/CM2	RESEARCH & OEM
AVCO EVERETT 3000 ORGANIC DYE	IIIB	360.0 TO 670.0	0.200	2.00	CIRC	1.00 UJ 40.0	1.00 TO 100 P/S	2.00 NS 5.00	63.5 UJ/CM2 2.54 MJ/CM2	RESEARCH & OEM
AVCO EVERETT 3000-A ORGANIC DYE	IIIB	360.0 TO 670.0	0.200	2.00	CIRC	1.00 UJ 40.0	5.00 TO 500 P/S	2.00 NS 5.00	63.5 UJ/CM2 2.54 MJ/CM2	RESEARCH & OEM
AVCO EVERETT C-5000 NITROGEN (N2)	IIIB	337.1	0.320 5.10	2.00 30.0	RECT	100 KW PEAK 500 MW AVER	5.00 TO 500 P/S	10.0 NS	613 UJ/CM2 306 MJ/CM2 613 UJ/CM2	RESEARCH & OEM
AVCO EVERETT C-5000-A NITROGEN (N2)	IIIB	337.1	0.320 5.10	2.00 30.0	RECT	100 KW PEAK 500 MW AVER	10.0 TO 1000 P/S	10.0 NS	613 UJ/CM2 306 MJ/CM2 UJ/CM2	RESEARCH & OEM
AVCO 50 KW PULSED UV NITROGEN (N2)	IIIB	337.1	0.300 2.90	1.00 10.0	RECT	50.0 KW PEAK	1.00 TO 10.0 P/S	10.0 NS 20.0	1.15 MJ/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
BARR & STROUD LUG RUBY	IV	694.3		5.00		1.00 TO 2.00 J	25.0 P/M	20.0 NS	2.59 J/CM2 5.18	RESEARCH & OEM
BAUSCH & LOMB PRIVATE BRANDED HELIUM NEON (HENE)	IIIB	632.8	0.120	1.30	CIRC	1.00 MW TEM00			2.59 MW/CM2	EDUCATION
BAUSCH B LOMB 2 HELIUM NEON (HENE)	IIIB	632.8		0.500		3.00 MW TEM00			7.78 MW/CM2	EDUCATION
BAUSCH & LOMB 11 HELIUM NEON (HENE)	IIIB	632.8		0.500		3.00 MW TEM00			7.78 MW/CM2	EDUCATION
BAUSCH B LOMB 41-17-01 HELIUM NEON (HENE)		632.8	0.015		CIRC					EDUCATION INSUFFICIENT INFORMATION
BAUSCH & LOMB 41-17-03 HELIUM NEON (HENE)	IIIB	632.8	0.300	0.700	CIRC	3.00 MW TEM00			7.78 MW/CM2	EDUCATION
BAUSCH & LOMB 41-17-50 HELIUM NEON (HENE)	II	632.8	0.300	5.00	CIRC	0.100 MW AVER	1000 P/S	100 US	259 WJ/CM2	EDUCATION
BAUSCH B LOMB 41-17-50 HELIUM NEON (HENE)	II	632.8	0.030	5.00	CIRC	0.100 MW AVER			259 WJ/CM2	EDUCATION
BAUSCH & LOMB 41-17-03-05 HELIUM NEON (HENE)	IIIB	632.8	1.50	7.00	CIRC	3.00 MW TEM00			3.39 MW/CM2	EDUCATION
BAUSCH B LOMB 41-17-03-05 HELIUM NEON (HENE)	IIIB	632.8	0.015	7.00	CIRC	3.00 MW TEM00			7.78 MW/CM2	EDUCATION
BAUSCH & LOMB STUDENT HELIUM NEON (HENE)	II	632.8	0.200	5.00	CIRC	0.100 MW AVER	1000 P/S		259 WJ/CM2	EDUCATION PROVISIONAL -OSHA- CLASSIFICATION
BENDIX TL-1 HELIUM NEON (HENE)	IIIB	632.8	0.200	0.400	CIRC	1.50 MW TEM00			3.89 MW/CM2	RESEARCH & OEM
BENDIX LABS LT-1 CARBON DIOXIDE (CO2)	IIIB	10600	0.200 1.00		RECT	100 W PEAK		7.00 US 10.0	5.00 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENRGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
BENTRON BL-5000 HELIUM NEON (HENE)	II	632.8	0.100	1.00	CIRCO	0.500 MW MULTI		N/A	1.30 MW/CM2	RESEARCH & OEM
BENTRON BL-5001 HELIUM NEON (HENE)	II	632.8	0.080	0.800	CIRCO	0.500 MW TEM00		N/A	1.30 MW/CM2	RESEARCH & OEM
BENTRON BL-5002 HELIUM NEON (HENE)	IIIB	632.8	0.080	0.800	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
BENTRON BL-5003 HELIUM NEON (HENE)	II	632.8	0.100	0.500	CIRCO	0.500 MW TEM00		N/A	1.30 MW/CM2	RESEARCH & OEM
BENTRON BL-5004 HELIUM NEON (HENE)	II	632.8	0.100	0.500	CIRCO	0.500 MW TEM00		N/A	1.30 MW/CM2	RESEARCH & OEM
BENTRON BL-5005 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.500	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
BENTRON BL-5006 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.500	CIRC	1.50 MW TEM00		N/A	3.89 MW/CM2	RESEARCH & OEM
BENTRON BL-5007 HELIUM NEON (HENE)	IIIB	632.8	0.080	0.600	CIRC	2.00 MW TEM00		N/A	5.18 MW/CM2	RESEARCH & OEM
BENTRON BL-5008 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.500	CIRC	2.00 MW TEM00		N/A	5.18 MW/CM2	RESEARCH & OEM
BENTRON BL-5009 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.500	CIRC	1.50 MW TEM00		N/A	3.89 MW/CM2	RESEARCH & OEM
BENTRON BL-5011S HELIUM NEON (HENE)	II	632.8	0.100	1.20	CIRCO	0.500 MW TEM00		N/A	1.30 MW/CM2	RESEARCH & OEM
BENTRON BL-5012S HELIUM NEON (HENE)	IIIB	632.8	0.100	1.20	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
BENTRON BL-5014 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.20	CIRC	4.00 MW TEM00		N/A	10.4 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
BENTRON BL-5015 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.20	CIRC	5.00 MW TEM00	N/A		13.0 MW/CM2	RESEARCH & OEM
BIORAD LPM RUBY & ND	IV	694.3 1060		3.00		5.00 J	1.00 P/S	800 US	13.0 J/CM2	RESEARCH & OEM
BIORAD QLPM RUBY & ND	IV	694.3 1060		3.00		1.00 J 0.100 W AVER	30.0 P/M	10.0 NS	2.59 J/CM2 259 MJ/CM2	RESEARCH & OEM
BIORAD QYAG NEODYMIUM YAG (ND YAG)	IV	1064		3.00		2.00 W AVER			5.18 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
BIORAD NT-03 HELIUM NEON (HENE)	IIIB	632.8	0.120	0.500	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM2	RESEARCH & OEM
BIORAD NT-7 HELIUM NEON (HENE)	IIIB	632.8	0.170	0.500	CIRC	7.00 MW TEM00	N/A		18.1 MW/CM2	RESEARCH & OEM
BIORAD NT-20 HELIUM NEON (HENE)	IIIB	632.8	0.210	0.500	CIRC	20.0 MW TEM00	N/A		51.8 MW/CM2	RESEARCH & OEM
BIORAD RD 90 RUBY	IV	694.3		5.00 15.0		1.00 J 30.0 MW AVER	1.00 P/S	30.0 NS	2.59 J/CM2 77.8 MJ/CM2	RESEARCH & OEM
BIORAD VK100 NEODYMIUM GLASS	IV	1060 (6.1)		3.00		0.100 J 20.0 MW AVER	1.00 P/M	6.00 NS	259 MJ/CM2 51.8	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
BIORAD VK160 NEODYMIUM GLASS	IV	1060		1.50		7.00 J 1.40 GW PEAK	5.00 P/M	6.00 NS	18.1 J/CM2 21.8	RESEARCH & OEM
BIORAD CC-100K CARBON DIOXIDE (CO2)	IV	10600	1.50	5.00	CIRC	100 W TEM00	N/A		113 W/CM2	RESEARCH & OEM
BIORAD VD160 NEODYMIUM GLASS	IV	1060		0.050 2.00		3.00 J 0.100 W AVER	1.00 P/M	30.0 NS	7.78 J/CM2 259 MJ/CM2	RESEARCH & OEM
BIORAD VD230 NEODYMIUM GLASS	IV	1060		0.190		24.0 J 0.800 W AVER	5.00 P/M	30.0 NS	62.2 J/CM2 2.07	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- BEAM GENGE SHAPE (MRAD)	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
BIORAD VD320 NEODYMIUM GLASS	IV	1060	0.140	60.0 J 2.00 GW PEAK	5.00 P/M	30.0 NS	156 J/CM2	RESEARCH & OEM
BIORAD VK320 NEODYMIUM GLASS	IV	1060	1.00	50.0 J 10.0 GW PEAK	5.00 P/M	6.00 NS	130 J/CM2 156	RESEARCH & OEM
BIORAD VD450 NEODYMIUM GLASS	IV	1060	0.100	150 J 5.00 GW PEAK	6.00 P/M	30.0 NS	389 J/CM2	RESEARCH & OEM
BIORAD VK451 NEODYMIUM GLASS	IV	1060	0.800	100 J 20.0 GW PEAK	6.00 P/M	6.00 NS	259 J/CM2 311	RESEARCH & OEM
BIORAD VK452 NEODYMIUM GLASS	IV	1060	0.800	150 J 30.0 GW PEAK	6.00 P/M	6.00 NS	389 J/CM2 467	RESEARCH & OEM
BIORAD VD640 NEODYMIUM GLASS	IV	1060	0.100	500 J 16.0 GW PEAK	8.00 P/M	30.0 NS	1.30 KJ/CM2 1.24	RESEARCH & OEM
BIORAD VK640 NEODYMIUM GLASS	IV	1060	0.600	250 J 50.0 GW PEAK	8.00 P/M	6.00 NS	648 J/CM2 778	RESEARCH & OEM
BLOUNT AND GEORGE S352 AGL HELIUM NEON (HENE)	IIIB	632.8	0.700	CIRC 1.90 MW TEM00	N/A		4.92 MW/CM2	LEVELING/ALIGNMENT
BLOUNT AND GEORGE TCL HELIUM NEON (HENE)	IIIB	632.8	1.00	CIRC 2.30 MW TEM00	N/A		5.84 MW/CM2	LEVELING/ALIGNMENT
BLOUNT AND GEORGE SL-4 AGL HELIUM NEON (HENE)	IIIB	632.8	0.700	CIRC 2.00 MW TEM00	N/A		5.18 MW/CM2	LEVELING/ALIGNMENT
BLOUNT AND GEORGE LTL HELIUM NEON (HENE)	IIIB	632.8		1.60 MW TEM00	N/A		4.15 MW/CM2	LEVELING/ALIGNMENT
BLOUNT AND GEORGE LTL 11-A BLOUNT AND GEORGE AGL S-322 AND S-3 HE-NE	IIIB	632.8	0.700 0.700	CIRC 3.50 MW TEM00 CIRC 2.00	N/A		9.07 MW/CM2 5.18	LEVELING/ALIGNMENT
BRITT PHOTOCOAGULATOR ARGON (AR)	IIIB	514.0		1.00 MW	N/A		2.59 MW/CM2	MEDICAL

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
BRITT 200JA XENON (XE)	IV	539.5	0.200	0.750	CIRC	100 W PEAK 0.250 W AVER 40.0 W PEAK 0.060 W AVER	20.0 TO 1200 P/S	2.00 US	518 UJ/CM2 648 MJ/CM2 207 UJ/CM2 156 MJ/CM2	RESEARCH & OEM
BRITT 2000 ARGON (AR)	IV	488.0 TO 514.0	0.200	0.750	CIRC	5.00 W PEAK 0.350 W AVER 1.70 W PEAK 0.120 W AVER	20.0 TO 1600 P/S	50.0 US	648 UJ/CM2 907 MJ/CM2 220 UJ/CM2 311 MJ/CM2	RESEARCH & OEM
BRITT 2000A ARGON (AR)	IV	488.0 TO 514.0	0.200	0.750	CIRC	5.00 W PEAK 0.200 MW AVER 1.70 W PEAK 0.080 W AVER	20.0 TO 6000 P/S	5.00 US 100	1.30 MJ/CM2 518 UJ/CM2 441 207 MJ/CM2	RESEARCH & OEM
BRITT 2000C ARGON ION	IV	457.9 TO 514.5	0.200	0.750	CIRC	5.00 W PEAK 250 MW AVER	30.0 TO 1200 P/S	5.00 US 100	1.30 MJ/CM2 648	RESEARCH & OEM
BRITT 2000H ARGON (AR)	IV	488.0 TO 514.0	0.200	0.750	CIRC	5.00 W PEAK 0.270 W AVER 1.70 W PEAK 0.080 W AVER	20.0 TO 1100 P/S	50.0 US	648 UJ/CM2 700 MJ/CM2 220 UJ/CM2 207 MJ/CM2	RESEARCH & OEM
BRITT 2000H ARGON ION	IV	457.9 TO 514.5	0.200	0.750	CIRC	5.00 W PEAK 250 MW AVER	30.0 TO 1200 P/S	50.0 US	648 UJ/CM2 648 MJ/CM2	RESEARCH & OEM
BRITT 2000S ARGON (AR)	IV	488.0 TO 514.0	0.200	0.750	CIRC	5.00 W PEAK 0.270 W AVER 1.70 W PEAK 0.080 W AVER	20.0 TO 4000 P/S	15.0 US	194 UJ/CM2 700 MJ/CM2 66.1 UJ/CM2 207 MJ/CM2	RESEARCH & OEM
BRITT 2000S ARGON ION	IV	457.9 TO 514.5	0.200	0.750	CIRC	5.00 W PEAK 250 MW AVER	1.00 TO 4000 P/S	15.0 US	194 UJ/CM2 648 MJ/CM2	RESEARCH & OEM
BRITT 2000T ARGON ION	IV	457.9 TO 514.9	0.200	0.750	CIRC	5.00 W PEAK 4.10 3.80	20.0 TO 1200 P/S 2000	50.0 US	648 UJ/CM2 531 492	RESEARCH & OEM
BRITT 2001 ARGON (AR)	IV	351.1 363.8	0.200	0.750	CIRC	0.300 MJ	30.0 P/S 6000	2.00 MS 25.0	19.0 MJ/CM2	RESEARCH & OEM
BRITT 2001C ARGON ION	IV	457.9 TO 514.5	0.200	0.750	CIRC	3.00 W PEAK 20.0 MW AVER	30.0 TO 1200 P/S	1.00 US 25.0	194 UJ/CM2 51.8 MJ/CM2	RESEARCH & OEM
BRITT 2001H ARGON (AR)	IIIB	363.8 351.1	0.200	0.750	CIRC	3.00 W PEAK 0.040 W AVER 0.500 W PEAK 0.010 W AVER	20.0 TO 1100 P/S	12.0 US	2.29 MJ/CM2 2.54 J/CM2 381 UJ/CM2 635 MJ/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
BRITT 2001H ARGON ION	IV	457.9 TO 514.5	0.200	0.750	CIRC	3.00 W PEAK 20.0 MW AVER	30.0 TO 1200 P/S	50.0 US	389 UJ/CM2 51.8 MJ/CM2	RESEARCH & OEM
BRITT 2001T ARGON ION	IV	457.9 TO 514.9	0.200	0.750	CIRC	3.00 W PFAK 20.0 MW AVER	20.0 TO 2000 P/S	12.0 US	93.3 UJ/CM2 51.8 MJ/CM2	RESEARCH & OEM
BRITT 2004C ARGON ION	IV	457.9 TO 514.5	0.200	0.750	CIRC	200 W PEAK 165 MW AVER	30.0 TO 1200 P/S	5.00 US 100	51.8 MJ/CM2 428	RESEARCH & OEM
BRITT 2004S ARGON ION	IV	457.9 TO 514.5	0.200	0.750	CIRC	20.0 W PEAK 165 MW AVER	1.00 TO 4000 P/S	15.0 US	778 UJ/CM2 428 MJ/CM2	RESEARCH & OEM
BRITT 2250H ARGON ION	IIIB	457.9 TO 514.5	0.500		CIRC	7.00 W PEAK	30.0 TO 1200 P/S	50.0 US	907 UJ/CM2	RESEARCH & OEM
BRITT 3200 ARGON (AR)	IV	488.0 TO 514.0	0.250	0.600	CIRC	10.0 W PEAK 1.00 W AVER 3.50 W PEAK 0.250 W AVER	20.0 TO 1600 P/S	50.0 US	1.30 MJ/CM2 2.59 J/CM2 454 UJ/CM2 648 MJ/CM2	RESEARCH & OEM
BRITT 3200A ARGON (AR)	IV	488.0 TO 514.0	0.250	0.600	CIRC	10.0 W PEAK 0.700 W AVER 3.50 W PEAK 0.160 W AVER	20.0 TO 6000 P/S	5.00 US 100	2.59 MJ/CM2 1.81 J/CM2 907 UJ/CM2 415 MJ/CM2	RESEARCH & OEM
BRITT 3200C ARGON ION	IIIB	457.9 TO 514.5	0.250	0.750	CIRC	10.0 W PEAK	30.0 TO 1200 P/S	5.00 US	130 UJ/CM2	RESEARCH & OEM
BRITT 3200H ARGON (AR)	IV	488.0 TO 514.0	0.200	0.600	CIRC	10.0 W PEAK 0.700 W AVER 3.50 W PEAK 0.160 W AVER	20.0 TO 1100 P/S	50.0 US	1.30 MJ/CM2 1.81 J/CM2 454 UJ/CM2 415 MJ/CM2	RESEARCH & OEM
BRITT 3200H ARGON ION	IIIB	457.9 TO 514.5	0.250	0.750	CIRC	10.0 W PEAK	30.0 TO 1200 P/S	50.0 US	1.30 MJ/CM2	RESEARCH & OEM
BRITT 3200S ARGON (AR)	IV	488.0 TO 514.0	0.250	0.600	CIRC	10.0 W PEAK 0.700 W AVER 3.50 W PEAK 0.160 W AVER	20.0 TO 4000 P/S	15.0 US	389 UJ/CM2 1.81 J/CM2 136 UJ/CM2 415 MJ/CM2	RESEARCH & OEM
BRITT 3200S ARGON ION	IIIB	457.9 TO 514.5	(.1)			10.0 W PEAK	1.00 TO 4000 P/S	15.0 US 100	2.59 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
BRITT 3200T ARGON ION	IIIB	457.9 TO 514.5	0.250	0.750	CIRC	10.0 W PEAK	20.0 TO 2000 P/S	50.0 US	1.30 MJ/CM2	RESEARCH & OEM
BRITT 3201C ARGON ION	IIIB	457.9 TO 514.5	0.250	0.750	CIRC	6.00 W PEAK	30.0 TO 1200 P/S	1.00 US 10.0	156 UJ/CM2	RESEARCH & OEM
BRITT 3201H ARGON (AR)	IIIB	363.8 351.1	0.250	0.600	CIRC	6.00 W PEAK 0.080 W AVER 1.00 W PEAK	20.0 TO 1100 P/S	12.0 US	2.93 MJ/CM2 3.25 J/CM2 488 UJ/CM2	RESEARCH & OEM
BRITT 3201H ARGON ION	IIIB	457.9 TO 514.5	0.250	0.750	CIRC	6.00 W PEAK	30.0 TO 1200 P/S	12.0 US	187 UJ/CM2	RESEARCH & OEM
BRITT 3201T ARGON ION	IV	457.9 TO 514.5	0.250	0.750	CIRC	6.00 W PEAK 44.0 MW AVER	20.0 TO 2000 P/S	12.0 US	187 UJ/CM2 114 MJ/CM2	RESEARCH & OEM
BRITT 3204A XENON (XE)	IV	539.5	0.250	0.600	CIRC	200 W PEAK 0.500 W AVER 80.0 W PEAK 0.120 W AVER	20.0 TO 1200 P/S	2.00 US	1.04 MJ/CM2 1.30 J/CM2 415 UJ/CM2 311 MJ/CM2	RESEARCH & OEM
BRITT 3204C ARGON ION	IV	457.9 TO 514.5	0.250	0.750	CIRC	200 W PEAK 165 MW AVER	30.0 TO 1200 P/S	5.00 US 100	51.8 MJ/CM2 428	RESEARCH & OEM
BRITT 3230 ARGON (AR)	IV	488.0 518.0	0.300	0.600	CIRC	10.0 J MULTI 2.60 J TEM00	100 TO 6000 P/S	2.00 US 200	25.9 J/CM2 6.74	RESEARCH & OEM VARIABLE PEAK PWR
BRITT 3231 ARGON (AR)	IV	351.0 364.0	0.300	0.600	CIRC	6.00 J MULTI 1.00 J TEM00	50.0 TO 3000 P/S	2.00 US 12.0	169 J/CM2 28.2	RESEARCH & OEM VARIABLE PEAK PWR
BRITT 3250 ARGON (AR)	IV	488.0 518.0	0.500		CIRC	15.0 J MULTI	100 TO 6000 P/S	2.00 US 200	38.9 J/CM2	RESEARCH & OEM VARIABLE PEAK PWR
BRITT 3250H ARGON ION	IIIB	457.9 TO 514.5	0.500		CIRC	12.5 W PEAK	30.0 TO 1200 P/S	50.0 US	1.62 MJ/CM2	RESEARCH & OEM
BRITT 3204S ARGON ION	IV	457.9 TO 514.5	0.250	0.750	CIRC	200 W PFAK 165 MW AVER	1.00 TO 4000 P/S	15.0 US 100	51.8 MJ/CM2 428	RESEARCH & OEM
BROOKER LABS BRC001 HELIUM NEON (HENE)	IIIB	632.8	0.200	1.00	CIRC	1.00 MW MULTI 1.00 MW TEM00			2.59 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
CANDELA SLL-50U R6G	IV	340.0 TO 650.0	0.400	3.00	CIRC	1.00MGW AVER	0.100 P/S	120 NS	15.9 MJ/CM2	RESEARCH & OEM
CANDELA SLL-66H R6G	IV	570.0 TO 630.0	0.400	2.00	CIRC	1.00MGW AVER	20.0 P/S	100 NS	130 MJ/CM2	RESEARCH & OEM
CANDELA SLL-100 ORGANIC DYE	IV	340.0 TO 800.0	1.00	2.00	CIRC	250 MJ	10.0 P/M	450 NS	635 MJ/CM2	RESEARCH & OEM
CANDELA SLL-100 R6G	IV	430.0 TO 650.0	1.00	2.00	CIRC	1.00MGW AVER	1.00 P/S	400 NS	2.54 MJ/CM2	RESEARCH & OEM
CANDELA SLL-621 R6G	IV	430.0 TO 650.0	1.60	2.00	CIRC	2.00MGW AVER	0.200 P/S	1.00 MS	1.98 MJ/CM2	RESEARCH & OEM
CANDELA SLL-625 ORGANIC DYE	IV	420.0 TO 630.0	1.80	2.00	CIRC	1.00 J	10.0 TO 60.0 P/M	800 NS	784 MJ/CM2	RESEARCH & OEM
CARSON LABS 10 AR/KB	IIIB	488.0 TO 647.1	0.150	1.00	CIRC	75.0 MW TEM00	N/A		194 WJ/CM2	RESEARCH & OEM
CARSON LABS 100 ARGON/KRYPTON (AR/KR)	IV	488.0 TO 647.1	0.150	0.500	CIRC	1.00 W TEM00	N/A		2.59 W/CM2	RESEARCH & OEM
CARSON LABS 101 ARGON (AR)	IV	476.5 TO 514.5	0.140	1.00	CIRC	2.00 W TEM00	N/A		5.18 W/CM2	RESEARCH & OEM
CARSON LABS 102 ARGON/KRYPTON (AR/KR)	IIJB	476.5 TO 676.4	0.140		CIRC	0.500 W TEM00	N/A		1.30 W/CM2	RESEARCH & OEM
CARSON LABS 103 KRYPTON (KR)	IV	461.9 TO 676.4	0.140	1.00	CIRC	1.00 W TEM00	N/A		2.59 W/CM2	RESEARCH & OEM
CARSON LABS 201 ARGON (AR)	IV	454.5 TO 514.5	0.140	1.00	CIRC	5.00 W TEM00	N/A		13.0 W/CM2	RESEARCH & OEM
CARSON LABS 202 ARGON/KRYPTON (AR/KR)	IV	476.5 TO 676.4	0.140	1.00	CIRC	1.00 W TEM00	N/A		2.59 W/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
CARSON LABS 203 KRYPTON (KR)	IV	461.9 TO 676.4	0.140	1.00	CIRC	2.00 W TEM00			5.18 W/CM2	RESEARCH & OEM
CARSON LABS 300 ARGON/KRYPTON (AR/KR)	IV	488.0 TO 647.1	0.150	0.500	CIRC	3.00 W TEM00			7.78 W/CM2	RESEARCH & OEM
CARSON LABS 500 ARGON/KRYPTON (AR/KR)	IV	488.0 TO 647.1	0.150	0.500	CIRC	5.00 W TEM00			13.0 W/CM2	RESEARCH & OEM
CARSON LABS 602 AR OR KR	IV	454.5 TO 676.4	0.140	1.00	CIRC	5.00 W TEM00 2.00'			13.0 W/CM2 5.18	RESEARCH & OEM
THIS LASER CAN BE FILLED WITH AR OR KR OUTPUT IS 5W AR-2W KR										
CARSON LABS 603 AR OR KR OR XE GAS INTERCHANGE 3 GAS	IV	454.5 TO 676.4	0.140	1.00	CIRC	5.00 W TEM00 2.00			13.0 W/CM2 5.18	RESEARCH & OEM
CARSON LABS 711 ARGON (AR)	IV	457.9 TO 514.5	0.140	1.00	CIRC	2.00 W TEM00			5.18 W/CM2	RESEARCH & OEM
CARSON LABS 711-2 AR-AR/KR TWIN	IV	457.9 TO 647.1	0.140	1.00	CIRC	2.00 W TEM00 1.50			5.18 W/CM2 3.89	RESEARCH & OEM
CARSON LABS 711-3 AR-KR TWIN	IV	457.9 TO 646.4	0.140	1.00	CIRC	2.00 W TEM00 1.00			5.18 W/CM2 2.59	RESEARCH & OEM
CARSON LABS 712 ARGON/KRYPTON (AR/KR)	IIIB	476.5 TO 676.4	0.140	1.00	CIRC	0.500 W TEM00			1.30 W/CM2	RESEARCH & OEM
CARSON LABS 712-3 AR/KR-KR TWIN	IV	461.9 TO 676.4	0.140	1.00	CIRC	0.500 W TEM00 1.00			1.30 W/CM2 2.59	RESEARCH & OEM
CARSON LABS 713 KRYPTON (KR)	IV	461.9 TO 676.4	0.140	1.00	CIRC	1.00 W TEM00			2.59 W/CM2	RESEARCH & OEM
CARSON LABS 721 ARGON (AR)	IV	454.5 TO 514.5	0.140	1.00	CIRC	5.00 W TEM00			13.0 W/CM2	RESEARCH & OEM
CARSON LABS 721-1C ARGON (AR)	IV	454.5 TO 514.5	0.140	1.00	CIRC	10.0 W TEM00			25.9 W/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
CARSON LABS 721-2 AR-AR/KR TWIN LASER 1 AR 1 AR/KR	IV	454.5 514.5 676.4	0.140	1.00	CIRC	5.00 W 2.00	TEM00 N/A		13.0 W/CM2 5.18	RESEARCH & OEM
CARSON LABS 721-3 AR-KR TWIN	IV	457.9 TO 646.4	0.140	1.00	CIRC	5.00 W 2.00	TEM00 N/A		13.0 W/CM2 5.18	RESEARCH & OEM
CARSON LABS 721-4 AR-XE TWIN	IV	454.5 TO 627.1	0.140	1.00	CIRC	5.00 W	TEM00 N/A		13.0 W/CM2	RESEARCH & OEM
CARSON LABS 722 ARGON/KRYPTON (AR/KR)	IV	476.5 TO 676.4	0.140	1.00	CIRC	1.00 W	TEM00 N/A		2.59 W/CM2	RESEARCH & OEM
CARSON LABS 722-3 AR/KR-KR TWIN	IV	461.9 TO 676.4	0.140	1.00	CIRC	1.00 W 2.00	TEM00 N/A		2.59 W/CM2 5.18	RESEARCH & OEM
CARSON LABS 722-4 AR/KR-XE TWIN	IV	460.3 TO 676.4	0.140	1.00	CIRC	1.00 W	TEM00 N/A		2.59 W/CM2	RESEARCH & OEM
CARSON LABS 723 KRYPTON (KR)	IV	461.9 TO 676.4	0.140	1.00	CIRC	2.00 W	TEM00 N/A		5.18 W/CM2	RESEARCH & OEM
CARSON LABS 723-3C KRYPTON (KR)	IV	461.9 TO 676.4	0.140	1.00	CIRC	4.00 W	TEM00 N/A		10.4 W/CM2	RESEARCH & OEM
CARSON LABS 723-4 KR-XE TWIN	IV	460.3 TO 676.4	0.140	1.00	CIRC	2.00 W	TEM00 N/A		5.18 W/CM2	RESEARCH & OEM
CARSON LABS 724 XENON (XE)		460.3 627.1	0.140	1.00	CIRC					RESEARCH & OEM INSUFFICIENT INFORMATION
CARSON LABS 724-4C XENON (XE)		460.3 627.1	0.140	1.00	CIRC					RESEARCH & OEM INSUFFICIENT INFORMATION
CARSON LABS G-1 HELIUM NEON (HENE)	IIIB	632.8	0.400	1.00	CIRC	2.00 MW MULTI 0.500 MW TEM00	N/A		5.18 MW/CM2 1.30	RESEARCH & OEM
CARSON LABS G-10C HELIUM NEON (HENE)	IIIB	632.8	0.400	1.00	CIRC	7.00 MW MULTI 3.00 MW TEM00	N/A		18.1 MW/CM2 7.78	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- BEAM GENE SHAPE (MRAD)	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
CARSON LABS G-10M HELIUM NEON (HENE)	IIIB	632.8	0.400	1.00 CIRC	10.0 MW	TEH00 N/A	25.9 MW/CM2	RESEARCH & OEM
CARSON LABS G-10S HELIUM NEON (HENE)	IIIB	632.8	0.400	1.00 CIRC	10.0 MW	MULTI N/A	25.9 MW/CM2	RESEARCH & OEM
CARVER CORP N-69-2 HELIUM NEON (HENE)	IIIB	632.8	0.140	0.700 CIRC	2.00 MW	N/A	5.18 MW/CM2	RESEARCH & OEM
CARVER CORP N202 NITROGEN (N2)	IIIB	337.1 540.1	0.400 2.50	2.00 RECT 12.0	50.0 MW AVER 500 KW PEAK	1.00 TO 25.0 P/S	50.0 MJ/CM2 2.50	RESEARCH & OEM
CARVER CORP N300 NITROGEN (N2)	IIIB	337.1	0.200	3.00 CIRC	1.00 MW AVER 1000 W PEAK	5.00 TO 60.0 P/S	10.0 NS 63.5 MJ/CM2 635 UJ/CM2	RESEARCH & OEM
CO. GEN. D ELEC VD160 NEODYMIUM GLASS	IV	1059			3.00 J 100MGW PEAK		7.78 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
CO. GEN. D ELEC VD230 NEODYMIUM GLASS	IV	1059			24.0 J 800MGW PEAK		62.2 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
CO. GEN. D ELEC VD320 NEODYMIUM GLASS	IV	1059			60.0 J 2000MGW PEAK		156 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
CO. GEN. D ELEC VD450 NEODYMIUM GLASS	IV	1059			150 J 5000MGW AVER		389 W/CM2 13.0 GW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
CO. GEN. D ELEC VD640 NEODYMIUM GLASS	IV	1059						RESEARCH & OEM INSUFFICIENT INFORMATION
CHROMATIX CMX-4 DYE	IIIB	445.0 TO 700.0	0.300	1.00 CIRC	10.0 KW PEAK 200 MW AVER	5.00 P/S 30.0	518 MW/CM2	SCIENTIFIC INSTR. PROVISIONAL -OSHA- CLASSIFICATION
CHROMATIX CMX-4 UV OPTION DYE	IV	265.0 TO 350.0	0.300	1.00 CIRC	1.00 KW PEAK 1.00 KW AVER	5.00 P/S 30.0	28.2 KW/CM2	SCIENTIFIC INSTR. PROVISIONAL -OSHA- CLASSIFICATION
CHROMATIX 1000 NEODYMIUM YAG (ND YAG)	IV	473.0 TO 13580	0.104	CIRC	200 KW PEAK	75.0 P/S 400 NS	10.2 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
CHROMATIX 1050 UV-VIS DYE	IV	265.0 TO 277.0	0.025		CIRC	5.00 MW AVER	3.00 P/S 75.0	300 US	212 MJ/CM2	RESEARCH & OEM
CILAS NT-1 HELIUM NEON (HENE)	IIIB	632.8				1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM
CILAS 165 HELIUM NEON (HENE)	IIIB	632.8		1.00		0.500 MW TEM00 1.00 MW	N/A		1.30 MW/CM2 2.59	RESEARCH & OEM
COLEMAN INSTRUMENT 75 HELIUM NEON (HENE)	IIIB	632.8	0.200	0.800	CIRC	1.50 MW TEM00	N/A		3.89 MW/CM2	RESEARCH & OEM
COHERENT RADIATION COHERENT EYE SCANN HELIUM NEON (HENE)	IIIB ENCL	632.8	(.1)			1.20 MW AVER			3.11 MW/CM2	RESEARCH & OEM CLASS I AS ENCLOSED PROVISIONAL -OSHA- CLASSIFICATION
COHERENT RADIATION CR-MG ARGON/KRYPTON (AR/KR)	IV	457.9 TO 676.4	0.150	0.600	CIRC	750 MW TEM00	N/A		1.94 W/CM2	RESEARCH & OEM
COHERENT RADIATION CR-2 ARGON (AR)	IV	351.1 TO 528.7	0.130	0.600	CIRC	2.00 W TEM00	N/A		254 W/CM2	RESEARCH & OEM
COHERENT RADIATION CR-3 ARGON (AR)	IV	351.1 TO 528.7	0.130	0.600	CIRC	4.00 W TEM00	N/A		508 W/CM2	RESEARCH & OEM
COHERENT RADIATION CR-5 ARGON (AR)	IV	351.1 TO 528.7	0.140	0.500	CIRC	5.00 W TEM00	N/A		635 W/CM2	RESEARCH & OEM
COHERENT RADIATION CR-8 ARGON (AR)	IV	351.1 TO 528.7	0.140	0.500	CIRC	8.00 W TEM00	N/A		1.02 KW/CM2	RESEARCH & OEM
COHERENT RADIATION CR-12 ARGON (AR)	IV	351.1 TO 528.7	0.140 TO 0.160	0.500 0.600	CIRC	1.50 W AVER 12.0			149 W/CM2 1.19 KW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
COHERENT RADIATION CR-18 ARGON (AR)	IV	351.1 TO 528.7	0.140 TO 0.160	0.500 0.600	CIRC	2.50 W AVER 18.0			248 W/CM2 1.79 KW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
COHERENT RADIATION 40 CARBON DIOXIDE (CO2)	IV	10600	1.50	2.00	CIRC	100 W TEM00	N/A		113 W/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWFR/ENFRGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
COHERENT RADIATION 40/140 PULSED CARBON DIOXIDE (CO2)	IV	10600	1.50	2.00	CIRC	100 W PEAK	1.00 TO 100 P/S	1.00 MS 10.0 S	113 W/CM2	RESEARCH & OEM
COHERENT RADIATION 40/150 Q-SWITCHED CO2	IIIB	10600	1.50	2.00	CIRC	100 KW PEAK	50.0 TO 400 P/S	50.0 NS	5.64 MJ/CM2	RESEARCH & OEM
COHERENT RADIATION 41 CARBON DIOXIDE (CO2)	IV	10600	0.090	2.00	CIRC	200 W AVER 3.00 KW PEAK	50.0 TO 400 P/S	0.100 MS	25.4 KJ/CM2 38.1 J/CM2	RESEARCH & OEM
COHERENT RADIATION 41/141 PULSED CARBON DIOXIDE (CO2)	IV	10600	0.800	1.70	CIRC	250 W AVER	11.0 P/S 1000		992 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
COHERENT RADIATION 41/151 Q-SWITCHED CARBON DIOXIDE (CO2)	IV	10600	0.800		CIRC	20.0 KW PEAK 3.00 W AVER	50.0 P/M 400	0.500 US	39.7 MJ/CM2 11.9 J/CM2	RESEARCH & OEM
COHERENT RADIATION 42 CARBON DIOXIDE (CO2)	IV	10600	0.220		CIRC	50.0 W <sup>Ⓢ</sup> AVER	100 P/S	0.500 US	26.2 J/CM2	RESEARCH & OEM
COHERENT RADIATION 42L CARBON DIOXIDE (CO2)	IV	10600	0.630	2.20	CIRC	50.0 W TEM00		N/A	320 W/CM2	RESEARCH & OEM
COHERENT RADIATION 42/142 CARBON DIOXIDE (CO2)	IV	10600	0.630	2.20	CIRC	50.0 W AVER	1.00 TO 1000 P/M	1.00 US 10.0 S	320 W/CM2	RESEARCH & OEM
COHERENT RADIATION 42/152 CARBON DIOXIDE (CO2)	IV	10600	0.630	2.20	CIRC	5.00 W AVER	10.0 KHZ	0.500 US	3.20 MJ/CM2	RESEARCH & OEM
COHERENT RADIATION 43 CARBON DIOXIDE (CO2)	IV	10600	0.140		CIRC	500 W AVER	100 P/S		32.4 KW/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
COHERENT RADIATION 50A ARGON (AR)	IV	457.9 TO 514.5	0.140	0.700	CIRC	3.00 W TEM00 5.00 W MULTI		N/A	7.78 W/CM2 13.0	RESEARCH & OEM
COHERENT RADIATION 50K KRYPTON (KR)	IV	461.9 TO 676.4	0.140	0.700	CIRC	700 MW MULTI 500 MW TEM00		N/A	1.81 W/CM2 1.30	RESEARCH & OEM
COHERENT RAD LABS 52 ARGON/KRYPTON (AR/KR)	IV	514.5 488.0 647.1	0.140	0.700	CIRC	2.00 W TEM00 0.300 W TEM00		N/A	5.18 W/CM2 778 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
COHERENT RADIATION 52A ARGON (AR)	IV	457.9 488.0 514.5	0.140	0.800	CIRC	2.00 W TEM00		N/A	5.18 W/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION 52AUV ARGON (AR)	IIIB	351.1 363.8	0.140	0.800	CIRC	75.0 MW MULTI		N/A	9.52 W/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION 52B-A ARGON (AR)	IV	457.9 TO 514.5	0.130	0.600	CIRC	4.00 W AVER			10.4 W/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
COHERENT RADIATION 52B-K KRYPTON (KR)	IV	461.9 TO 647.1	0.150	0.800	CIRC	750 MW TEM00		N/A	1.94 W/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION 52BKIR/ KRYPTON (KR)	IIIB	752.5 799.3	0.150	0.600	CIRC	100 MW MULTI		N/A	259 MW/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION 52G-KIR KRYPTON (KR)	IIIB	752.5 799.3	0.150	0.600	CIRC	100 MW MULTI		N/A	259 MW/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION 52K KRYPTON (KR)	IIIB	647.1 568.2 468.0	0.090	0.900	CIRC	0.200 W AVER			518 MW/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
COHERENT RADIATION 52GA ARGON (AR)	IV	457.9 488.0 514.5		0.800		2.00 W TEM00		N/A	5.18 W/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION 52GK KRYPTON (KR)	IIIB	461.9 TO 647.1		0.800		300 MW TEM00		N/A	778 MW/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION 52GMG ARGON/KRYPTON (AR/KR)	IV	457.9 TO 647.1		0.800		750 MW TEM00		N/A	1.94 W/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION 52K KRYPTON (KR)	IIIB	461.9 TO 676.4	0.140	0.800	CIRC	300 MW TEM00		N/A	778 MW/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION 52MG ARGON/KRYPTON (AR/KR)	IV	457.9 TO 647.1	0.140	0.800	CIRC	1.00 W MULTI		N/A	2.59 W/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION 53 ARGON/KRYPTON (AR/KR) ARGON OR KRYPTON	IV	488.0 514.5 647.1 468.0	0.150	0.600	CIRC	6.00 W TEM00 1.00		N/A	15.6 W/CM <sup>2</sup> 2.59	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (CSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- SENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
COHERENT RADIATION 53A ARGON (AR)	IV	457.9 TO 514.5	0.150	0.600	CIRC	8.00 W TEM00		N/A	20.7 W/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION 53K KRYPTON (KR)	IV	461.9 TO 676.4	0.150	0.600	CIRC	1.50 W TEM00		N/A	3.89 W/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION 53K KRYPTON (KR)	IIIIB	752.5 TO 799.3	0.160	0.600	CIRC	200 MW MULTI		N/A	518 MW/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION 54A ARGON (AR)	IIIIB	457.9 TO 514.4	0.078	0.900	CIRC	500 MW AVER			1.30 W/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
COHERENT RADIATION 58 ARGON (AR)	IIIIB	488.0 TO 514.5		1.00		25.0 MW TEM00		N/A	64.8 MW/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION 59 ARGON (AR)	IIIIB	488.0 TO 514.5		1.00		100 MW TEM00		N/A	259 MW/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION 60 NEODYMIUM YAG (ND YAG)	IV	1064	0.150	4.00	CIRC	10.0 W MULTI 1.50 W TEM00		N/A	25.9 W/CM <sup>2</sup> 3.89	RESEARCH & OEM
COHERENT RADIATION 60/460 NEODYMIUM YAG (ND YAG)	IV	1064	0.400	4.00	CIRC	5.00 W AVER	0.500 TO 15.0 KHZ	0.500 US	13.0 J/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION 80-2S HELIUM NEON (HENE)	IIIIB	632.8	0.080	1.00	CIRC	2.00 MW TEM00			5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION 80-4S HELIUM NEON (HENE)	IIIIB	632.8	0.070	1.15	CIRC	4.00 MW TEM00			10.4 MW/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION 80-6S HELIUM NEON (HENE)	IIIIB	632.8	0.080	1.00	CIRC	6.00 MW TEM00			15.6 MW/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION CR-084 HELIUM NEON (HENE)	IIIIB	632.8	0.050	1.20	CIRC	2.00 MW TEM00			5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
COHERENT RADIATION CR-084P HELIUM NEON (HENE) OUTPUT IS 25 PERCENT OF PUMP POWER ARGON LASER PUMPED	IIIIB	632.8	0.050	1.20	CIRC	2.00 MW TEM00			5.18 MW/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
COHERENT RADIATION IIB 90S HELIUM CADMIUM (HECD)		441.6	0.070	0.900	CIRC	10.0 MW TEM00			25.9 MW/CM2	RESEARCH & OEM
							N/A			
COHERENT RADIATION IIB 136/246 HELIUM NEON (HENE)		632.8	0.050	1.20	CIRC	2.00 MW TEM00			5.18 MW/CM2	RESEARCH & OEM
							N/A			
COHERENT RADIATION IIB 137/246 HELIUM NEON (HENE)		632.8	0.050	1.20	CIRC	2.00 MW TEM00			5.18 MW/CM2	RESEARCH & OEM
							N/A			
COHERENT RADIATION IIB 138/246 HELIUM NEON (HENE)		632.8	0.050	1.20	CIRC	2.00 MW TEM00			5.18 MW/CM2	RESEARCH & OEM
							N/A			
COHERENT RADIATION IIB 136P/246 HELIUM NEON (HENE)		632.8	0.050	1.20	CIRC	2.00 MW TEM00			5.18 MW/CM2	RESEARCH & OEM
							N/A			
COHERENT RADIATION IV EVERLASE 150 CARBON DIOXIDE (CO2)		10600	1.20	2.00	CIRC	150 W TEM00			132 W/CM2	RESEARCH & OEM
							N/A			
COHERENT RADIATION IV EVERLASE 150P CO2 PULSED		10600	1.20	2.00	CIRC	100 W AVER 1.00 KW PEAK	2.50 KHZ	50.0 MS	35.3 MJ/CM2 44.1 J/CM2	RESEARCH & OEM
COHERENT RADIATION CR490 RHODUMINE 6G		525.0 TO 700.0		1.00						RESEARCH & OEM INSUFFICIENT INFORMATION
COHERENT RADIATION IV 490A DYE		400.0 TO 800.0	0.200	0.500	CIRC	1.00 W AVER			2.59 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
COHERENT RADIATION IIB CR-500K KRYPTON (KR)		350.7 TO 799.3	0.150	0.600	CIRC	500 MW TEM00			56.4 W/CM2	RESEARCH & OEM
							N/A			
COHERENT RADIATION IV 590 DYE		400.0 TO 800.0	0.200	0.500	CIRC	1.00 W AVER			2.59 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
COHERENT RADIATION IV 800 ARGON (AR)		514.5 TO 488.0	0.140	0.800	CIRC	1.00 W			2.59 W/CM2	MEDICAL
							N/A			
COHERENT RADIATION IV CR-750K KRYPTON (KR)		350.7 TO 799.3	0.160	0.600	CIRC	750 MW TEM00			74.4 W/CM2	RESEARCH & OEM
							N/A			

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
COHERENT RADIATION GRADOMAT I/II/III/ HE NE AND IV	IIIB	632.8	0.700		CIRC	1.90 MW MAX			4.92 MW/CM2	RESEARCH & OEM FOCUSED-1.6CM AT 91 M
CONST LASERSYSTEM ACCUBEAM IIA HELIUM NEON (HE NE)	IIIB	632.8	1.00	0.800	CIRC	1.70 MW TEM00			4.32 MW/CM2	LEVELING/ALIGNMENT
CONST LASERSYSTEM ACCUBEAM IV HELIUM NEON (HE NE)	IIIB	632.8	0.800	0.800	CIRC	1.20 MW TEM00			3.11 MW/CM2	LEVELING/ALIGNMENT
CONST LASERSYSTEM ACCUSWEEP 710 HELIUM NEON (HE NE)	IIIB	632.8	1.10	0.800	CIRC	1.10 MW TEM00			2.31 MW/CM2	LEVELING/ALIGNMENT
CONST LASERSYSTEM ACCUSWEEP 711 AUTO HELIUM NEON (HE NE)	IIIB	632.8	1.10	0.800	CIRC	1.10 MW TEM00			2.31 MW/CM2	LEVELING/ALIGNMENT
CONST LASERSYSTEM TRU-SQUARE TS-40 HELIUM NEON (HE NE)	IIIB	632.8	0.600	0.800	CIRC	2.10 MW TEM00			5.44 MW/CM2	LEVELING/ALIGNMENT
CONST LASERSYSTEM ACCUBEAM V HELIUM NEON (HE NE)	IIIB	632.8	0.800	0.800	CIRC	1.20 MW TEM00			3.11 MW/CM2	LEVELING/ALIGNMENT
CONTROL DATA      SEE TRG										
CONTROL LASER 88 HELIUM NEON (HE NE)	IIIB	632.8	(.1)			2.70 MW MAX			7.00 MW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
CONTROL LASER H507 NEODYMIUM YAG (ND YAG)		1064								RESEARCH & OEM INSUFFICIENT INFORMATION
CONTROL LASER 510 NEODYMIUM YAG (ND YAG)	IV	1064	0.200	2.00	CIRC	30.0 W CW 4.00 W AVER	0.500 TO 25.0 KHZ	150 NS 350	77.8 W/CM2 10.4 J/CM2 415 UJ/CM2	RESEARCH & OEM
CONTROL LASER 512 NEODYMIUM YAG (ND YAG)	IV	1064	0.200	2.00	CIRC	50.0 W CW 6.50 W AVER	0.500 KHZ 50.0	150 NS 350	130 W/CM2 33.7 MJ/CM2	RESEARCH & OEM
CONTROL LASER 540 KRYPTON (KR)	IIIB	488.0 TO 514.5	0.120	1.50	CIRC	50.0 MW AVER	120 P/S		130 MW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
CONTROL LASER 541 KRYPTON (KR)	IIIB	488.0 TO 514.5	0.120	1.50	CIRC	50.0 MW TEM00		N/A	130 MW/CM <sup>2</sup>	RESEARCH & OEM
CONTROL LASER 542 KRYPTON (KR)	IIIB	488.0 TO 514.5	0.120	1.50	CIRC	100 MW TEM00		N/A	259 MW/CM <sup>2</sup>	RESEARCH & OEM
CONTROL LASER 543 KRYPTON (KR)	IIIB	488.0 TO 514.5	0.120	1.50	CIRC	150 MW TEM00		N/A	389 MW/CM <sup>2</sup>	RESEARCH & OEM
CONTROL LASER 544 KRYPTON (KR)	IIIB	488.0 TO 514.5	0.120	1.50	CIRC	200 MW TEM00		N/A	518 MW/CM <sup>2</sup>	RESEARCH & OEM
CONTROL LASER 545 KRYPTON (KR)	IIIB	488.0 TO 514.5	0.120	1.50	CIRC	250 MW TEM00		N/A	648 MW/CM <sup>2</sup>	RESEARCH & OEM
CONTROL LASER 551 ARGON (AR)	IV	454.5 TO 514.5	0.180	0.800	CIRC	3.00 W MULTI 2.00 W TEM00		N/A	7.78 W/CM <sup>2</sup> 5.18	RESEARCH & OEM
CONTROL LASER 551 KRYPTON (KR)	IV	457.9 TO 514.5	0.150	0.600	CIRC	2.00 W TEM00		N/A	5.18 W/CM <sup>2</sup>	RESEARCH & OEM
CONTROL LASER 551 ARGON-KRYPTON	IV	457.9 TO 676.4	0.150	0.600	CIRC	2.00 W TEM00		N/A	5.18 W/CM <sup>2</sup>	RESEARCH & OEM
CONTROL LASER 552 ARGON (AR)	IV	454.5 TO 514.5	0.180	0.800	CIRC	5.00 W MULTI 4.00 W TEM00		N/A	13.0 W/CM <sup>2</sup> 10.4	RESEARCH & OEM
CONTROL LASER 552K KRYPTON (KR)	IV	457.9 TO 514.5	0.200	0.600	CIRC	0.700 W TEM00		N/A	1.81 W/CM <sup>2</sup>	RESEARCH & OEM
CONTROL LASER 552AK ARGON-KRYPTON	IV	457.9 TO 514.5	0.200	0.600	CIRC	0.700 W TEM00		N/A	1.81 W/CM <sup>2</sup>	RESEARCH & OEM
CONTROL LASER 553 ARGON (AR)	IV	351.1 TO 528.7	0.180	0.800	CIRC	8.00 W MULTI 6.00 W TEM00		N/A	627 W/CM <sup>2</sup> 470	RESEARCH & OEM
CONTROL LASER 553K KRYPTON (KR)	IV	454.5 TO 514.5	0.200	0.600	CIRC	1.50 W TEM00		N/A	3.89 W/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
CONTROL LASER 553AK ARGON-KRYPTON	IV	454.9 TO 514.5	0.160	0.600	CIRC	1.20 W TEM00		N/A	3.11 W/CM2	RESEARCH & OEM
CONTROL LASER 553U ARGON (AR)	IIIB	351.1 TO 363.8	0.180	0.800	CIRC	150 MW MULTI 100 MW TEM00		N/A	11.8 W/CM2 7.84	RESEARCH & OEM
CONTROL LASER 554 ARGON (AR)	IV	351.1 TO 528.7	0.180	0.800	CIRC	10.0 W MULTI 8.00 W TEM00		N/A	784 W/CM2 627	RESEARCH & OEM
CONTROL LASER 554K KRYPTON (KR)	IV	454.5 TO 514.5	0.200	0.600	CIRC	2.00 W TEM00		N/A	5.18 W/CM2	RESEARCH & OEM
CONTROL LASER 554AK ARGON-KRYPTON	IV	454.5 TO 514.5	0.200	0.600	CIRC	1.60 W TEM00		N/A	4.15 W/CM2	RESEARCH & OEM
CONTROL LASER 554U ARGON (AR)	IIIB	351.1 TO 363.8	0.180	0.800	CIRC	250 MW MULTI 200 MW TEM00		N/A	19.6 W/CM2 15.7	RESEARCH & OEM
CONTROL LASER 555 ARGON (AR)	IV	351.1 TO 528.7	0.180	0.800	CIRC	12.0 W MULTI 10.0 W TEM00		N/A	940 W/CM2 784	RESEARCH & OEM
CONTROL LASER 555K KRYPTON (KR)	IV	350.7 TO 799.3	0.200	0.600	CIRC	2.50 W TEM00		N/A	159 W/CM2	RESEARCH & OEM
CONTROL LASER 555AK ARGON-KRYPTON	IV	457.9 TO 676.4	0.200	0.600	CIRC	2.00 W TEM00		N/A	5.18 W/CM2	RESEARCH & OEM
CONTROL LASER 555U ARGON (AR)	IV	351.1 TO 363.8	0.180	0.800	CIRC	600 MW MULTI 400 MW TEM00		N/A	47.0 W/CM2 31.3	RESEARCH & OEM
CONTROL LASER 556 ARGON (AR)	IV	351.1 TO 528.7	0.180	0.800	CIRC	14.0 W MULTI 12.0 W TEM00		N/A	1.10 MW/CM2 940 W/CM2	RESEARCH & OEM
CONTROL LASER 556K KRYPTON (KR)	IV	351.1 TO 514.5	0.200	0.600	CIRC	3.50 W TEM00		N/A	222 W/CM2	RESEARCH & OEM
CONTROL LASER 556AK ARGON-KRYPTON	IV	351.1 TO 514.5	0.200	0.600	CIRC	2.50 W TEM00		N/A	159 W/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
CONTROL LASER 556U ARGON (AR)	IV	351.1 TO 363.8	0.180	1.00	CIRC	750 MW MULTI 500 MW TEM00	N/A		58.8 W/CM2 39.2	RESEARCH & OEM
CONTROL LASER 558 ARGON (AR)	IV	351.1 TO 528.7	0.180	0.800	CIRC	19.0 W MULTI 16.0 W TEM00	N/A		1.49 KW/CM2 1.25	RESEARCH & OEM
CONTROL LASER 558K KRYPTON (KR)	IV	351.1 TO 514.5	0.200	0.600	CIRC	5.00 W TEM00	N/A		317 W/CM2	RESEARCH & OEM
CONTROL LASER 558 ARGON-KRYPTON	IV	351.1 TO 514.5	0.200	0.600	CIRC	3.00 W TEM00	N/A		190 W/CM2	RESEARCH & OEM
CONTROL LASER 558U ARGON (AR)	IV	351.1 TO 363.8	0.180	1.00	CIRC	1.00 W MULTI 0.700 W TEM00	N/A		78.4 W/CM2 54.9	RESEARCH & OEM
CONTROL LASER 559 ARGON (AR)	IV	351.1 TO 528.7	0.180	0.800	CIRC	24.0 W MULTI 20.0 W TEM00	N/A		1.88 KW/CM2 1.57	RESEARCH & OEM
CONTROL LASER 559AK ARGON-KRYPTON	IV	350.7 TO 676.4	0.200	0.600	CIRC	6.00 W TEM00	N/A		381 W/CM2	RESEARCH & OEM
CONTROL LASER 559U ARGON (AR)	IV	351.1 TO 363.8	0.180	1.00	CIRC	1.50 W MULTI 1.00 W TEM00	N/A		118 W/CM2 78.4	RESEARCH & OEM
CONTROL LASER 560 ARGON (AR)	IV	351.1 TO 363.8	0.180	1.00	CIRC	2.00 W MULTI 1.00 W TEM00	N/A		157 W/CM2 78.4	RESEARCH & OEM
CONTROL LASER 570 DYE	IIIB	565.0 TO 620.0				150 MW TEM00	N/A		389 MW/CM2	RESEARCH & OEM REQUIRES ARGON ION LASER
CONTROL LASER 580 DYE	IIIB	560.0 TO 630.0	0.050	3.00	CIRC	500 MW	N/A		1.30 W/CM2	RESEARCH & OEM
CONTROL LASER 901 ARGON (AR)	IV	457.9 488.0 514.5	0.150	0.800	CIRC	1.00 W TEM00	N/A		2.59 W/CM2	RESEARCH & OEM
CONTROL LASER 902 AR OR KR	IV	454.0 TO 647.1		0.600		2.00 W TEM00 2.50 W MULTI	N/A		5.18 W/CM2 6.48	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- BEAM GENGE SHAPE (MRAD)	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSF WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS	
CONTROL LASER 904 AR OR KR	IV	454.0 TO 647.1	0.600	4.00 W TEM00 5.00 W MULTI	N/A		10.4 W/CM2 13.0	RESEARCH & OEM	
CONTROL LASER 906 AR OR KR	IV	454.0 TO 647.1	0.600	6.00 W TEM00 3.00 W MULTI	N/A		15.6 W/CM2 7.78	RESEARCH & OEM	
CONTROLLASER 906K KRYPTON (KR)	IV	568.2 TO 676.4	0.800	1.00 W TEM00	N/A		2.59 W/CM2	RESEARCH & OEM	
CONTROL LASER 906MG ARGON/KRYPTON (AR/KR)	IV	457.9 488.0 676.4	1.50	700 MW TEM00	N/A		1.81 W/CM2	RESEARCH & OEM	
CONTROL LASER 906UV ARGON (AR)	IIIB	351.0 353.0	0.800	100 MW TEM00	N/A		12.7 W/CM2	RESEARCH & OEM	
CONTROL LASER 908 AR OR KR	IV	454.0 TO 647.1	0.600	8.00 W TEM00 12.0 W MULTI	N/A		20.7 W/CM2 31.1	RESEARCH & OEM	
CONTROL LASER 912 AR OR KR	IV	454.0 514.5 647.1	0.500	12.0 W TEM00 16.0 W MULTI	N/A		31.1 W/CM2 41.5	RESEARCH & OEM	
CONTROL LASER 912UV ARGON (AR)	IV	351.0 353.0	0.800	1.50 W MULTI	N/A		191 W/CM2	RESEARCH & OEM	
CONTROL LASER 2001 DYE	IV	570.0 630.0	2.00 0.600 CIRC	1.00 W	N/A		635 MW/CM2	RESEARCH & OEM	
CONDUCTRON C-9 C-10 RUBY	IV	694.3		1.00 J		50.0 NS	2.59 J/CM2	HOLOGRAPHY PROVISIONAL -OSHA- CLASSIFICATION	
CUBIC INDUSTRIAL CUBITAPE DM-60 GA-AS	IIIB	910.0	4.00	1.80 CIRC	8.80 MW AVER	70.0 MHZ	7.00 NS	2.00 NJ/CM2	DIST. METER
CUBITAPE DM-6 GA-AS	IIIB	910.0	4.00	1.80 CIRC	8.80 MW AVER	70.0 MHZ	7.00 NS	998 PJ/CM2	DIST. METER
CW RADIATION LS-1 HELIUM NEON (HENE)	IIIB	632.8	0.110	1.10 CIRC	1.00 MW TEM00	N/A	2.59 MW/CM2	RESEARCH & OEM	

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- BEAM GENCE SHAPE (MRAD)	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
CW RADIATION LS-2 HELIUM NEON (HENE)	IIIB	632.8 0.110	1.10 CIRC	2.00 MW TEM00		N/A	5.18 MW/CM2	RESEARCH & OEM
CW RADIATION LS-3 HELIUM NEON (HENE)	IIIB	632.8 0.110	1.10 CIRC	3.00 MW TEM00		N/A	7.78 MW/CM2	RESEARCH & OEM
CW RADIATION LS-4 HELIUM NEON (HENE)	IIIB	632.8 0.110	1.10 CIRC	4.00 MW TEM00		N/A	10.4 MW/CM2	RESEARCH & OEM
CW RADIATION LS-5 HELIUM NEON (HENE)	IIIB	632.8 0.110	1.10 CIRC	5.00 MW TEM00		N/A	13.0 MW/CM2	RESEARCH & OEM
CW RADIATION LS-7 HELIUM NEON (HENE)	IIIB	632.8 0.078	1.10 CIRC	7.00 MW TEM00		N/A	18.1 MW/CM2	RESEARCH & OEM
CW RADIATION, INC. LS-10 HELIUM NEON (HENE)	IIIB	632.8		10.0 MW TEM00		N/A	25.9 MW/CM2	RESEARCH & OEM
CW RADIATION, INC. LS-10R HELIUM NEON (HENE)	IIIB	632.8		10.0 MW TEM00		N/A	25.9 MW/CM2	RESEARCH & OEM
CW RADIATION, INC. LS-15 HELIUM NEON (HENE)	IIIB	632.8		15.0 MW TEM00		N/A	38.9 MW/CM2	RESEARCH & OEM
CW RADIATION, INC. LS-15R HELIUM NEON (HENE)	IIIB	632.8		15.0 MW TEM00		N/A	38.9 MW/CM2	RESEARCH & OEM
CW RADIATION LSM-1 HELIUM NEON (HENE)	IIIB	632.8 0.250	2.00 CIRC	1.00 MW MULTI		N/A	2.59 MW/CM2	RESEARCH & OEM
CW RADIATION LSM-5 HELIUM NEON (HENE)	IIIB	632.8 0.250	2.00 CIRC	5.00 MW MULTI		N/A	13.0 MW/CM2	RESEARCH & OEM
CW RADIATION, INC. LSR-10 HELIUM NEON (HENE)	IIIB	632.8 0.078	1.10 CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
CW RADIATION LSR-1R HELIUM NEON (HENE)	IIIB	632.8 0.078	1.10 CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
CW RADIATION LSR-1W HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LSR-1WR HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LSR-2 HELIUM NEON (HENE)	IIIB	632.8	0.110	1.10	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC LSR-2 HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC LSR-20 HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC LSR-2R HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC LSR-2W HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC LSR-2WR HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LSR-3 HELIUM NEON (HENE)	IIIB	632.8	0.110	1.10	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC LSR-30 HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC LSR-3R HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC LSR-3W HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC LSR-3WR HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
CW RADIATION, LSR-4 HELIUM NEON (HENE)	IIIB	632.8	0.110	1.10	CIRC	4.00 MW TEM00			10.4 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC. LSR-4D HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	4.00 MW TEM00			10.4 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC. LSR-4R HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	4.00 MW TEM00			10.4 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC. LSR-4W HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	4.00 MW TEM00			10.4 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC. LSR-4WR HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	4.00 MW TEM00			10.4 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LSR-05 HELIUM NEON (HENE)	II	632.8	0.110	1.10	CIRC	0.500 MW TEM00			1.30 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LSR-5 HELIUM NEON (HENE)	IIIB	632.8	0.110	1.10	CIRC	5.00 MW TEM00			13.0 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC. LSR-5D HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	5.00 MW TEM00			13.0 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC. LSR-5R HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	5.00 MW TEM00			13.0 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC. LSR-5W HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	5.00 MW TEM00			13.0 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC. LSR-5WR HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	5.00 MW TEM00			13.0 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC. LSR-7D HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	7.00 MW TEM00			18.1 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC. LSR-7R HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	7.00 MW TEM00			18.1 MW/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
CW RADIATION, INC. LSR-7W HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	7.00 MW TEM00		N/A	18.1 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION, INC. LSR-7WR HELIUM NEON (HENE)	IIIB	632.8	0.078	1.10	CIRC	7.00 MW TEM00		N/A	18.1 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LT-1 HELIUM NEON (HENE)	IIIB	632.8	0.800	1.30	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LT-2 HELIUM NEON (HENE)	IIIB	632.8	0.800	1.30	CIRC	2.00 MW TEM00		N/A	5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LT-3 HELIUM NEON (HENE)	IIIB	632.8	1.20	1.10	CIRC	3.00 MW TEM00		N/A	5.29 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LT-4 HELIUM NEON (HENE)	IIIB	632.8	1.20	1.10	CIRC	4.00 MW TEM00		N/A	7.05 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LT-5 HELIUM NEON (HENE)	IIIB	632.8	1.20	1.10	CIRC	5.00 MW TEM00		N/A	8.82 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LT-7 HELIUM NEON (HENE)	IIIB	632.8	1.00	1.20	CIRC	7.00 MW TEM00		N/A	17.8 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LT-10 HELIUM NEON (HENE)	IIIB	632.8	1.50	0.800	CIRC	10.0 MW TEM00		N/A	11.3 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LT-15 HELIUM NEON (HENE)	IIIB	632.8	1.50	0.800	CIRC	15.0 MW TEM00		N/A	16.9 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LTP-1 HELIUM NEON (HENE)	IIIB	632.8	0.800	1.30	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LTP-2 HELIUM NEON (HENE)	IIIB	632.8	0.800	1.30	CIRC	2.00 MW TEM00		N/A	5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LTP-3 HELIUM NEON (HENE)	IIIB	632.8	1.20	1.10	CIRC	3.00 MW TEM00		N/A	5.29 MW/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
CW RADIATION LTP-4 HELIUM NEON (HENE)	IIIB	632.8	1.20	1.10	CIRC	4.00 MW TEM00			7.05 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LTR-05 HELIUM NEON (HENE)	II	632.8	0.800	1.30	CIRC	0.500 MW TEM00			1.30 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LTR-1 HELIUM NEON (HENE)	IIIB	632.8	0.800	1.30	CIRC	1.00 MW TEM00			2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LTR-2 HELIUM NEON (HENE)	IIIB	632.8	0.800	1.30	CIRC	2.00 MW TEM00			5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LTR-3 HELIUM NEON (HENE)	IIIB	632.8	1.20	1.10	CIRC	3.00 MW TEM00			5.29 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION LTR-4 HELIUM NEON (HENE)	IIIB	632.8	1.20	1.10	CIRC	4.00 MW TEM00			7.05 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION S-100 HELIUM NEON (HENE)	II	632.8	0.150	2.00	CIRC	0.500 MW MULTI			1.30 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION S-100S HELIUM NEON (HENE)	II	632.8	0.078	1.20	CIRC	0.500 MW TEM00			1.30 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION S-101 HELIUM NEON (HENE)	II	632.8	0.100	1.00	CIRC	0.500 MW TEM00			1.30 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION S-102 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	1.00 MW TEM00			2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION S-103 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	1.50 MW TEM00			3.89 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION S-104 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	2.00 MW TEM00			5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
CW RADIATION S-106R HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	5.00 MW TEM00			13.0 MW/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- BEAM GENCE SHAPE (MRAD)	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
CW RADIATION S-105 HELIUM NEON (HENE)	II	632.8 0.100	1.00 CIRC	0.300 MW MULTI 0.200 MW TEM00	N/A		778 W/CM2 518	RESEARCH & OEM
CW RADIATION S-106-01 HE NE	IIIB	1152 0.100	1.20 CIRC	1.50 MW TEM00	N/A		3.89 MW/CM2	RESEARCH & OEM
CW RADIATION S-106-03 HELIUM NEON (HENE)	IIIB	3391 0.100	1.20 CIRC	2.50 MW TEM00	N/A		317 MW/CM2	RESEARCH & OEM
CW RADIATION S-115 HELIUM NEON (HENE)	IIIB	632.8	0.800	15.0 MW TEM00	N/A		38.9 MW/CM2	RESEARCH & OEM
CW RADIATION S-203 HELIUM NEON (HENE)	IIIB	632.8 0.100	1.00 CIRC	1.50 MW TEM00	N/A		3.89 MW/CM2	RESEARCH & OEM
CW RADIATION S-203D HELIUM NEON (HENE)	IIIB	632.8 0.100	1.00 CIRC	1.50 MW TEM00	N/A		3.89 MW/CM2	RESEARCH & OEM
CW RADIATION S-303 HELIUM NEON (HENE)	IIIB	632.8 0.100	1.20 CIRC	3.00 MW TEM00	N/A		7.78 MW/CM2	RESEARCH & OEM
CW RADIATION S-303D HELIUM NEON (HENE)	IIIB	632.8 0.100	1.00 CIRC	2.00 MW TEM00	N/A		5.18 MW/CM2	RESEARCH & OEM
CW RADIATION S-404 HELIUM NEON (HENE)	IIIB	632.8 0.100	1.20 CIRC	4.00 MW TEM00	N/A		10.4 MW/CM2	RESEARCH & OEM
CW RADIATION S-405 HELIUM NEON (HENE)	IIIB	632.8 0.100	1.20 CIRC	5.00 MW TEM00	N/A		13.0 MW/CM2	RESEARCH & OEM
CW RADIATION S-405D HELIUM NEON (HENE)	IIIB	632.8 0.100	1.20 CIRC	5.00 MW TEM00	N/A		13.0 MW/CM2	RESEARCH & OEM
CW RADIATION S-405R HELIUM NEON (HENE)	IIIB	632.8 0.100	1.20 CIRC	5.00 MW TEM00	N/A		13.0 MW/CM2	RESEARCH & OEM
CW RADIATION S-405-01 HELIUM NEON (HENE)	IIIB	1152 0.100	1.20 CIRC	1.50 MW TEM00	N/A		3.89 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
CW RADIATION S-405-03 HELIUM NEON (HENE)	IIIB	3391	0.100	1.20	CIRC	2.50 MW TEM00			317 MW/CM2	RESEARCH & OEM
							N/A			
CW RADIATION S-410 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIPC	10.0 MW TEM00			25.9 MW/CM2	RESEARCH & OEM
							N/A			
CW RADIATION S-415 HELIUM NEON (HENE)	IIIB	632.8	0.150	0.800	CIRC	15.0 MW TEM00			38.9 MW/CM2	RESEARCH & OFM
							N/A			
CW RADIATION S-415 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	15.0 MW TEM00			38.9 MW/CM2	RESEARCH & OEM
							N/A			
CW RADIATION S-415-01 HELIUM NEON (HENE)	IIIB	1152	0.100	0.800	CIRC	4.50 MW TEM00			11.7 MW/CM2	RESEARCH & OEM
							N/A			
CW-RADIATION S-415-03 HELIUM NEON (HENE)	IIIB	3391	0.100	0.800	CIRC	6.50 MW TEM00			825 MW/CM2	RESEARCH & OEM
							N/A			
DATA OPTICS CORP. LOUIE-D INTR.ALARM NOT GIVEN										INT. ALARMS + COM. INSUFFICIENT INFORMATION
DATA OPTICS TAC GA-AS	I	905.0				5.00 W PEAK		20.0 NS	259 NJ/CM2	COMPUTER & STORAGE TRAFFIC COUNTER PROVISIONAL -OSHA- CLASSIFICATION
DATA OPTICS SECOM GA-AS		905.0								COMMUNICATOR INSUFFICIENT INFORMATION
DIFFRACTO RPS GA-AS	IIIB ENCL	905.0	(.1)			1.00 MW AVER			2.59 MW/CM2	MAT. PROCESSING CLASS I AS ENCLOSED PROVISIONAL -OSHA- CLASSIFICATION
DIFFRACTO LASERSURF HELIUM NEON (HENE)	IIIB ENCL	632.8				1.00 MW		N/A	2.59 MW/CM2	MAT. PROCESSING CLASS I AS ENCLOSED
DIFFRACTO 25 HELIUM NEON (HENE)	IIIB	632.8				1.00 MW		N/A	2.59 MW/CM2	LEVELING/ALIGNMENT

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAC)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
DIFFRACTO DIFFRACTO GAGE-R HELIUM NEON (HENE)	IIIB	632.8				1.00 MW		N/A	2.59 MW/CM2	MAT. PROCESSING
DIFFRACTO TBSS HELIUM NEON (HENE)	IIIB	632.8				2.00 MW		N/A	5.18 MW/CM2	MAT. PROCESSING
DOALL SC-103 HELIUM NEON (HENE)	II	632.8	1.00	0.010	CIRC	100 UW		N/A	254 UW/CM2	DIST. METER
DOALL LASERCHECK-3000 HELIUM NEON (HENE)	II	632.8	1.00	0.010	CIRC	100 UW		N/A	254 UW/CM2	DIST. METER
DYMOGRAPHICS DLC-1000 ARGON (AR)	IIIB	488.0 TO 514.5				20.0 MW		N/A	51.8 MW/CM2	MAT. PROCESSING
DYNABEAM NA HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	10.0 MW TEM00		N/A	25.9 MW/CM2	RESEARCH & OEM
DYNABEAM NA HELIUM NEON (HENE)	IIIB	632.8	0.120	2.50	CIRC	10.0 MW MULTI		N/A	25.9 MW/CM2	RESEARCH & OEM
EALING 25-6040 HELIUM NEON (HENE)	IIIB	632.8	0.070	1.70	CIRC	3.00 MW TEM00		N/A	7.78 MW/CM2	EDUCATION
EALIN 25-6057 HELIUM NEON (HENE)	IIIB	632.8	0.065	1.70	CIRC	5.00 MW TEM00		N/A	13.0 MW/CM2	EDUCATION
EALING 25-7253 HELIUM NEON (HENE)	II	632.8	0.080	0.800	CIRC	0.700 MW TEM00		N/A	1.81 MW/CM2	EDUCATION
EALING 25-7295 HELIUM NEON (HENE)	IIIB	632.8	0.080	8.00	CIRC	2.00 MW TEM00		N/A	5.18 MW/CM2	EDUCATION
EALING 25-7329 HELIUM NEON (HENE)	IIIB	632.8	0.150	5.00	CIRC	5.00 MW MULTI		N/A	13.0 MW/CM2	EDUCATION
EALING 25-7345 HELIUM NEON (HENE)	IIIB	632.8	0.080	0.600	CIRC	2.50 MW TEM00		N/A	6.48 MW/CM2	EDUCATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- BEAM GENCE SHAPE (MRAD)	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
EALING 25-7451 HELIUM NEON (HENE)	IIIB	632.8	0.080	8.00 CIRC	1.00 MW TEM00	N/A	2.59 MW/CM2	EDUCATION
EALING 25-7568 HELIUM NEON (HENE)	IIIB	632.8	0.150	5.00 CIRC	1.50 MW TEM00	N/A	3.89 MW/CM2	EDUCATION
ECRM 5100A AUTOREADER HELIUM NEON (HENE)	II	632.8			0.200 MW	N/A	518 UW/CM2	MAT. PROCESSING
ECRM 8400 AUTOKONCAMER HELIUM NEON (HENE)	II	632.8			0.400 MW	N/A	1.04 MW/CM2	MAT. PROCESSING
EDMUNDSCIENTIFIC 79002 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.50 CIRC	1.00 MW TEM00	N/A	2.59 MW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79004 HELIUM NEON (HENE)	II	632.8	0.100	1.50 CIRC	0.700 MW	N/A	1.81 MW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79005 HELIUM NEON (HENE)	II	632.8	0.100	2.00 CIRC	0.300 MW MULTI	N/A	778 UW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79006 HELIUM NEON (HENE)	IIIB	632.8	0.090	0.800 CIRC	2.00 MW TEM00	N/A	5.18 MW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79007 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800 CIRC	1.00 MW TEM00	N/A	2.59 MW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79008 HELIUM NEON (HENE)	IIIB	632.8	0.090	0.800 CIRC	1.00 MW TEM00	N/A	2.59 MW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79009 HELIUM NEON (HENE)	II	632.8	0.100	2.00 CIRC	0.300 MW TEM00	N/A	778 UW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79015 HELIUM NEON (HENE)	IIIB	632.8	0.090	0.800 CIRC	3.00 MW TEM00	N/A	7.78 MW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79022 HELIUM NEON (HENE)	IIIB	632.8	0.100	5.00 CIRC	2.50 MW TEM00	N/A	6.48 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
EDMUNDSCIENTIFIC 79024 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79026 HELIUM NEON (HENE)	IIIB	632.8	0.120	1.00	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79026 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	3.00 MW TEM00		N/A	7.78 MW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79028 HELIUM NEON (HENE)	IIIB	632.8	0.120	0.800	CIRC	1.20 MW		N/A	3.11 MW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79028 HELIUM NEON (HENE)	IIIB	632.8	0.150	0.800	CIRC	1.20 MW TEM00		N/A	3.11 MW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79030 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	2.50 MW TEM00		N/A	6.48 MW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79032 HELIUM NEON (HENE)	IIIB	632.8	0.120	5.00	CIRC	6.00 MW TEM00		N/A	15.6 MW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79032 HELIUM NEON (HENE)	IIIB	632.8	0.120	5.00	CIRC	6.00 MW TEM00		N/A	15.6 MW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79034 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	3.00 MW TEM00		N/A	7.78 MW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79034 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	3.00 MW TEM00		N/A	7.78 MW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79050 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	1.50 MW TEM00		N/A	3.89 MW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79050 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	1.50 MW TEM00		N/A	3.89 MW/CM2	RESEARCH & OEM
EDMUNDSCIENTIFIC 79052 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	4.50 MW TEM00		N/A	11.7 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
EDMUNDS 79052 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	4.50 MW TEM00			11.7 MW/CM2	RESEARCH & OEM
							N/A			
EDMUNDS 79061 HELIUM NEON (HENE)	IIIB	632.8				1.50 MW			3.89 MW/CM2	RESEARCH & OEM
							N/A			
EDMUNDS 79064 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.50	CIRC	1.00 MW			2.59 MW/CM2	RESEARCH & OEM
							N/A			
EDMUNDS 79067 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.50	CIRC	1.00 MW			2.59 MW/CM2	RESEARCH & OEM
							N/A			
EDMUNDS 79082 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	1.00 MW TEM00			2.59 MW/CM2	RESEARCH & OEM
							N/A			
EDMUNDS 85901 HELIUM NEON (HENE)	IIIB	632.8	0.120	1.00	CIRC	1.00 MW TEM00			2.59 MW/CM2	RESEARCH & OEM
							N/A			
EDMUNDS 85901 HELIUM NEON (HENE)	IIIB	632.8				1.50 MW			3.89 MW/CM2	RESEARCH & OEM
							N/A			
ELECTR OPTICS ASSO LAS-101 HELIUM NEON (HENE)	IIIB	632.8	0.200	1.00	CIRC	1.00 MW TEM00			2.59 MW/CM2	RESEARCH & OEM
							N/A			
ELECTR OPTICS ASSO LAS-102A HELIUM NEON (HENE)	IIIB	632.8	0.200	1.00	CIRC	1.00 MW TEM00			2.59 MW/CM2	RESEARCH & OEM
							N/A			
ELECTRO OPTICS ASS LAS-103 HELIUM NEON (HENE)	IIIB	632.8	0.100		CIRC	125 MW TEM00			324 MW/CM2	RESEARCH & OEM
							N/A			
ELECTR OPTICS ASSO LAS-104 HELIUM NEON (HENE)	IIIB	632.8	0.100	2.00	CIRC	0.250 MW TEM00			31.7 MW/CM2	RESEARCH & OEM
		1150 3390					N/A			
ELECTR OPTICS ASSO LAS-201 HELIUM NEON (HENE)	IIIB	632.8	0.200	1.00	CIRC	1.00 MW TEM00			63.5 MW/CM2	RESEARCH & OEM
		1150 3390					N/A			
ELECTRO OPTICS ASS LAS-203 HELIUM NEON (HENE)	II	632.8				0.200 MW TEM00			518 UW/CM2	RESEARCH & OEM
							N/A			

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
ELECTR OPTICS ASSO LAS-1020 HELIUM NEON (HENE)	IIIB	632.8	1.00	0.200	CIRC	1.00 MW TEM00	N/A		2.54 MW/CM2	RESEARCH & OEM
ELECTR OPTICS ASSO LAS-1021 HELIUM NEON (HENE)	IIIB	632.8	1.20	0.200	CIRC	1.00 MW TEM00	N/A		1.76 MW/CM2	RESEARCH & OEM
ELECTRO OPTICS ASS LAS-1100 HELIUM NEON (HENE)	IIIB	632.8				50.0 MW TEM00 100 MW MULTI	N/A		130 MW/CM2 259	RESEARCH & OEM
ELECTR OPTICS ASSO LAS-2000 HELIUM NEON (HENE)	II	632.8	0.120	1.50	CIRC	0.500 MW TEM00	N/A		1.30 MW/CM2	RESEARCH & OEM
ELECTRO OPTICS ASS LAS-2000F HELIUM NEON (HENE)	II	632.8	0.120	1.50	CIRC	0.500 MW TEM00	N/A		1.30 MW/CM2	RESEARCH & OEM
ELECTR OPTICS ASSO LAS-2001 HELIUM NEON (HENE)	II	632.8	0.120	1.50	CIRC	0.500 MW TEM00	N/A		1.30 MW/CM2	RESEARCH & OEM
ELECTRO OPTICS ASS LAS-2002 HELIUM NEON (HENE)	II	632.8	0.120	1.50	CIRC	0.500 MW TEM00 0.500 MW MULTI	N/A		1.30 MW/CM2	RESEARCH & OEM
ELECTRO OPTICS ASS LAS-2100 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM
ELECTRO POWERPACS 355 RUBY	IV	694.3				30.0 J 10.0 KW PEAK	1.00 P/S	1.00 MS 5.00	77.8 J/CM2 130	RESEARCH & OEM
ELECTRO POWERPACS 370 RUBY	IV	694.3				3.00 J 3.00 KW PEAK	1.00 P/S	1.00 MS 3.00	7.78 J/CM2 23.3	RESEARCH & OEM
ELLIOTT AUTOMATION HNL6 HELIUM NEON (HENE)	II	632.8		1.00		200 UW TEM00	N/A		518 UW/CM2	LEVELING/ALIGNMENT
ELLIOTT AUTOMATION HNL8A HELIUM NEON (HENE)	IIIB	632.8		0.500		1.50 MW MULTI	N/A		3.89 MW/CM2	LEVELING/ALIGNMENT
ELLIOTT AUTOMATION LASERBLADE CARBON DIOXIDE (CO2)	IV	10600		2.00		500 W TEM00	N/A		63.5 MW/CM2	MAT. PROCESSING

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
ELLIOTT AUTOMATION LASERLINE HELIUM NEON (HENE)	IIIB	632.8				1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
ELECTRO NUCLEAR 492 6A-AS	IIIB	904.0	(.1)	1.00		10.0 W PEAK	0.100 TO 80.0 P/S	70.0 NS	1.81 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
ELECTRO NUCLEAR LS30 HELIUM NEON (HENE)	IIIB	632.8	0.200 0.200	0.300 0.400	CIRC CIRC	4.00 MW MULTI 1.50 MW TEM00		N/A	10.4 MW/CM2 3.89 7.78 5.18 70.0 3.89	RESEARCH & OEM
ELECTRO NUCLEAR LS31 HELIUM NEON (HENE)	IIIB	632.8	0.120	0.050	CIRC	2.00 MW TEM00 6.00 MW MULTI		N/A	5.18 MW/CM2 15.6	RESEARCH & OEM
ELECTRO NUCLEAR LS-32 HELIUM NEON (HENE)	IIIB	632.8	0.200	0.400	CIRC	1.50 MW		N/A	3.89 MW/CM2	RESEARCH & OEM
ELECTRO NUCLEAR LS34 HELIUM NEON (HENE)	IIIB	632.8	0.120	1.00	CIRC	7.00 MW MULTI 5.00 MW TEM00		N/A	18.1 MW/CM2 13.0	RESEARCH & OEM
ELECTRO NUCLEAR LS35 HELIUM NEON (HENE)	IIIB	632.8	0.200 0.120	0.500 1.00	CIRC CIRC	7.00 MW TEM00 10.0 MW MULTI		N/A	18.1 MW/CM2 25.9	RESEARCH & OEM
ELECTRO NUCLEAR LS40 HELIUM NEON (HENE)	IIIB	632.8	0.120	1.00	CIRC	10.0 MW TEM00 15.0 MW MULTI		N/A	25.9 MW/CM2 38.9	RESEARCH & OEM
ELECTRO NUCLEAR LS45 HELIUM NEON (HENE)	IIIB	632.8	0.120	1.00	CIRC	15.0 MW TEM00 20.0 MW MULTI		N/A	38.9 MW/CM2 51.8	RESEARCH & OEM
ELECTRO NUCLEAR LS50 HELIUM NEON (HENE)	IIIB	632.8				50.0 MW TEM00		N/A	130 MW/CM2	RESEARCH & OEM
ELECTRO SCI IND. 15 PARTIAL SYSTEM NEODYMIUM YAG (ND YAG)	IV	ENCL 1064	0.200 0.400	2.00 6.00	CIRC CIRC	30.0 W CW 16.0 KW PEAK	0.500 TO 25.0 KHZ 0.500 TO 24.0 KHZ	150 NS 350 200 US 300	77.8 W/CM2 14.5 MJ/CM2 12.4 J/CM2	MAT. PROCESSING CLASS I AS ENCLOSED
CONTROL MODEL 510 OR HOLOBEAM MODEL 255 LASERS USED										
ELECTRO SCI IND. 22 SCRIBER CARBON DIOXIDE (CO2) COHERENT RADIATION MODEL 42 LASER USED	IV	ENCL 10600	0.220		CIRC	50.0 W AVER	100 P/S	0.500 US	26.2 J/CM2	MAT. PROCESSING CLASS I AS ENCLOSED

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
ELECTRO SCI IND. 25 RESISTOR TRIM NEODYMIUM YAG (ND YAG) CONTROL MODEL 510 OR HOLOBEAM MODEL 255 LASERS USED	IV ENCL	1064	0.200	2.00	CIRC	30.0 W CW 16.0 KW PEAK	25.0 KHZ 24.0	350 NS 300 US	77.8 W/CM2 12.4 J/CM2	MAT. PROCESSING CLASS I AS ENCLOSED
ELECTRO SCI IND. 32 SILICON SCRIBER NEODYMIUM YAG (ND YAG)	ENCL 10640									RESEARCH & OEM CLASS I AS ENCLOSED INSUFFICIENT INFORMATION
HOLOBEAM MODEL 257 LASER USED										
ELECTRO SCI IND. 44 RESISTOR TRIM NEODYMIUM YAG (ND YAG) CONTROL MODEL 510 OR HOLOBEAM MODEL 255 LASERS USED	IV ENCL	1064	0.200	2.00	CIRC	30.0 W CW 16.0 KW PEAK	25.0 KHZ 24.0	350 NS 300 US	77.8 W/CM2 12.4 J/CM2	MAT. PROCESSING CLASS I AS ENCLOSED
ECON CORP. 65R HELIUM NEON (HENE)	IIIB	632.8	0.007		CIRC 2.00	MW			5.18 MW/CM2	MAT. PROCESSING THE "READ PART" OF LASERITE 65R
ECON CORP. 65R ARGON (AR)	IV	488.0 TO 514.5		0.007		10.0 W			25.9 W/CM2	MAT. PROCESSING THE "WRITE PART" OF LASERITE 65R
ECON CORP. 65R UV RANGE NO MEDIUM	IIIB	361.1 TO 363.8		0.110		400 MW			50.8 W/CM2	MAT. PROCESSING THE "WRITE PART" OF LASERITE 65R
ECON CORP LASERITE100 2LASRS HE-NE/AR-N2	IV	337.1 632.8				1.50 W			191 W/CM2	MAT. PROCESSING
ECON CORP. 100-LASERITE HELIUM NEON (HENE)	IIIB	632.8				3.00 MW			7.78 MW/CM2	MAT. PROCESSING
ECON CORP. 100-LASERITE ARGON (AR)	IV	351.8 TO 363.6				3.00 W			381 W/CM2	MAT. PROCESSING
ERNST LEITZ BAZ-1/B1 HELIUM NEON (HENE)	IIIB	632.8		1.30		1.00 MW			2.59 MW/CM2	RESEARCH & OEM
ENERGY TECH., INC. L-10 HELIUM NEON (HENE)	IIIB	632.8	0.200	2.00	CIRCO	0.500 MW MULTI 1.00 MW TEMOO			1.30 MW/CM2 2.59	RESEARCH & OEM
ENERGY TECH., INC. L-11 HELIUM NEON (HENE)	II	632.8	0.080	1.10	CIRCO	0.500 MW TEMOO			1.30 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
ENERGY TECH., INC. L-12 HELIUM NEON (HENE)	IIIB	632.8	0.080	1.10	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
ENERGY TECH., INC. L-15 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.20	CIRC	4.00 MW TEM00		N/A	10.4 MW/CM2	RESEARCH & OEM
ENERGY TECH., INC. L-16 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.20	CIRC	5.00 MW TEM00		N/A	13.0 MW/CM2	RESEARCH & OEM
ENERGY TECH., INC. L-30 HELIUM NEON (HENE)	IIIB	632.8	0.100		CIRC	1.50 MW TEM00		N/A	3.89 MW/CM2	RESEARCH & OEM
ENERGY TECH., INC. L-31 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	3.00 MW TEM00		N/A	7.78 MW/CM2	RESEARCH & OEM
ENERGY TECH., INC. L-32 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.20	CIRC	4.00 MW TEM00		N/A	10.4 MW/CM2	RESEARCH & OEM
ENERGY TECH., INC. L-33 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.20	CIRC	5.00 MW TEM00		N/A	13.0 MW/CM2	RESEARCH & OEM
FERRANTI LMT GP-1 HELIUM NEON (HENE)	II	632.8	0.060	1.30	CIRC	0.250 MW TEM00		N/A	648 UW/CM2	RESEARCH & OEM
FERRANTI JP-2 HELIUM NEON (HENE)	IIIB	632.8				1.00 MW		N/A	2.59 MW/CM2	RESEARCH & OEM
FERRANTI LMT SL-3 HELIUM NEON (HENE)	II	632.8	0.100	0.800	CIRC	0.500 MW TEM00		N/A	1.30 MW/CM2	RESEARCH & OEM
FERRANTI LMT SL-4 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	1.50 MW TEM00		N/A	3.89 MW/CM2	RESEARCH & OEM
FERRANTI LMT SL-4-T HELIUM NEON (HENE)	IIIB	632.8	2.80		CIRC	1.00 MW TEM00		N/A	324 UW/CM2	RESEARCH & OEM COLLIMATED BEAM DIAMETER
FERRANTI LMT SL-5 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.900	CIRC	2.00 MW TEM00		N/A	5.18 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
FERRANTI LMT 6P-7 HELIUM NEON (HeNe)	IIIB	632.8	0.060	1.30	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM
FERRANTI LMT IL-8 HELIUM NEON (HeNe)	IIIB	632.8	0.060	1.30	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM
FERRANTI LMT GP-11 HELIUM NEON (HeNe)	IIIB	632.8	0.060	1.30	CIRC	1.50 MW TEM00	N/A		3.89 MW/CM2	RESEARCH & OEM
FERRANTI LMT GP-12 HELIUM NEON (HeNe)	IIIB	632.8	0.060	1.30	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM2	RESEARCH & OEM
FERRANTI LMT LR-25 HELIUM NEON (HeNe)	IIIB	632.8	0.090	1.00	CIRC	25.0 MW TEM00	N/A		64.8 MW/CM2	RESEARCH & OEM
FERRANTI LMT LR-50 HELIUM NEON (HeNe)	IIIB	632.8	0.090	1.00	CIRC	50.0 MW TEM00	N/A		130 MW/CM2	RESEARCH & OEM
FERRANTI LMT I-50 CARBON DIOXIDE (CO2)	IV	10600	0.900	3.00	CIRC	55.0 W MULTI	N/A		172 W/CM2	RESEARCH & OEM
FERRANTI LMT IL-80 HELIUM NEON (HeNe)	IIIB	632.8	0.060	0.800	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM
FERRANTI LMT 200 ARGON (AR)	IV	488.0	0.140	0.500	CIRC	2.00 W MULTI	N/A		5.18 W/CM2	RESEARCH & OEM
FERRANTI LMT 200 ARGON (AR)	IV	488.0	0.140	0.500	CIRC	900 W TEM00	N/A		2.33 KW/CM2	RESEARCH & OEM
FERRANTI LMT I-200 CARBON DIOXIDE (CO2)	IV	10600	1.00	3.00	CIRC	220 W MULTI	N/A		559 W/CM2	MAT. PROCESSING
FERRANTI LMT MF-400 CARBON DIOXIDE (CO2)	IV	10600	0.700	2.50	CIRC	450 W TEM00	N/A		2.33 KW/CM2	MAT. PROCESSING
FERRANTI LMT I-500 CARBON DIOXIDE (CO2)	IV	10600	2.50	2.00	CIRC	530 W MULTI	N/A		215 W/CM2	MAT. PROCESSING



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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- BEAM GENCE SHAPE (MRAD)	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
GE SEMICONDUCTOR JL10 GAAS	IV	840.0		400 MJ	1000 P/S	20.0 US	1.04 J/CM2	RESEARCH & OEM
LASER DIODE LABS LD-20 SERIES GA-AS	IIIB	900.0 (.1)		12.0 W PEAK	3.00 KHZ	200 NS	6.22 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
GENERAL LASER NONE NEODYMIUM YAG (ND YAG)	IV	1064	3.00	25.0 W TEM00	N/A		64.8 W/CM2	RESEARCH & OEM
GENERAL LASER NONE NEODYMIUM YAG (ND YAG)	IV	1064	3.00	0.100 J	10.0 P/S 50.0	30.0 US	259 MJ/CM2	RESEARCH & OEM
GENERAL LASER NONE RUBY	IV	694.3	5.00 7.00	50.0 J	1.00 P/S	1.00 MS	130 J/CM2	RESEARCH & OEM
GENERAL LASER NONE HELIUM NEON (HENE)	II	632.8 0.150 1.00		CIRC. 500 MW MULTI CIRC	N/A		1.30 MW/CM2	RESEARCH & OEM
GENERAL LASER COR. 594 RUBY,ND-GLASS	IV	694.3 0.635 1060	10.0 CIRC	6700 W AVER	1.00 P/H	900 US 770	17.4 KJ/CM2	RESEARCH & OEM
GENERAL LASER MINI-LASER RUBY	IV	1060	3.00 5.00	10.0 J	1.00 P/S	700 US	25.9 J/CM2	RESEARCH & OEM
GENERAL LASER MINI-LASER RUBY	IV	1060 (.1)	3.00 5.00	250 MJ		20.0 US 30.0	648 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
GENERAL PHOTONICS TWO-10 NEODYMIUM YAG (ND YAG)	IIIB	1064 0.071	2.00 CIRC	100 MW TEM00 300 MW MULTI	N/A		259 MW/CM2 778	RESEARCH & OEM
GENERAL PHOTONICS TWO-10A NEODYMIUM YAG (ND YAG)	IIIB	1064 0.071	2.00 CIRC	200 MW TEM00 400 MW MULTI	N/A		518 MW/CM2 1.04 W/CM2	RESEARCH & OEM
GENERAL PHOTONICS TWO-12 NEODYMIUM YAG (ND YAG)	IV	1064 0.071	1.00 CIRC	350 MW TEM00 1000 MW MULTI	N/A		907 MW/CM2 2.59 W/CM2	RESEARCH & OEM
GENERAL PHOTONICS TWO-12A NEODYMIUM YAG (ND YAG)	IV	1064 0.071	1.00 CIRC	500 MW TEM00 1500 MW MULTI	N/A		1.30 W/CM2 3.89	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRA)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
GENERAL PHOTONICS TWO-12B NEODYMIUM YAG (ND YAG)	IIIB	1312	0.071	1.00	CIRC	25.0 MW TEM00		N/A	64.8 W/CM2	RESEARCH & OEM
GENERAL PHOTONICS TWO-15 NEODYMIUM YAG (ND YAG)	IV	1064	0.141	1.00	CIRC	2.00 W TEM00 2.50 W MULTI		N/A	5.18 W/CM2 6.4R	RESEARCH & OEM
GENERAL PHOTONICS TWO-15B NEODYMIUM YAG (ND YAG)	IV	1064	0.141	1.00	CIRC	500 MW TEM00 750 MW MULTI		N/A	1.30 W/CM2 1.94	RESEARCH & OEM
GENERAL PHOTONICS TWO-22 ND YAG DOUBLED	IV	532.0	0.071	1.00	CIRC	25.0 MW TEM00			64.8 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
GENERAL PHOTONICS TWO-30 NEODYMIUM YAG (ND YAG)	IIIB	1064	0.080	3.00	CIRC	15.0 MW TEM00		N/A	38.9 W/CM2	RESEARCH & OEM
GENERAL PHOTONICS TWO-45 NEODYMIUM YAG (ND YAG)	IIIB	1064	0.354	10.0	CIRC	200 W PEAK 40.0 MJ	10.0 P/S	200 US	104 MJ/CM2 104	RESEARCH & OEM
GENERAL PHOTONICS TWO-45Q NEODYMIUM YAG (ND YAG)	IV	1064	0.500	7.00	CIRC	2.00MW PEAK 30.0 MJ	10.0 P/S	20.0 NS	104 MJ/CM2 77.8	RESEARCH & OEM
GEN-TEC INC. DDL-2 CO2/HE/N2	IV	10600	1.00 2.50	10.0 2.00	RECT	500 MJ	0.200 P/S 2.00	250 NS	200 MJ/CM2	RESEARCH & OEM
GEN-TEC INC DDL-2-SH CO2 TEA	IIIB	10600	2.50	2.00	CIRC	1.00MGW PEAK 0.500 J	1.00 P/S	0.100 US	40.6 MJ/CM2 203	RESEARCH & OEM
GEN-TEC INC. DDL-2 TEA CO2-HE-N2	IV	10600	1.00 2.50	10.0	RECT	500 MJ MULTI	0.200 P/S 20.0	250 NS	200 MJ/CM2	RESEARCH & OEM
GEN-TEC INC. HE-04 CO2 TEA	IV	10600	5.00		CIRC	50.0MGW PEAK 15.0 J	0.050 P/S	0.100 US	508 MJ/CM2 1.52 J/CM2	RESEARCH & OEM
GEN-TEC INC DDL-5 CO2 TEA	IV	10600	2.50	3.00	CIRC	5.00MGW PEAK 2.00 J	1.00 P/S	0.100 US 50.0	102 J/CM2 813 MJ/CM2	RESEARCH & OEM
GEN-TEC INC. DDL-25H CO2/HE/N2	IIIB	10600	2.00 0.600	10.0 2.00	CIRC CIRC	1.00MGW PEAK 200 KW TEM00	0.200 TO 2.00 P/S	150 NS	1.06 J/CM2 212 MJ/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
GEN-TEC INC. R-100 CO2-TEA	IV	10600	2.00	2.00	CIRC	1.00MGW PEAK	5.00 P/S	0.400 US	254 MJ/CM2	RESEARCH & OEM
GEN-TEC INC. R-200 CO2/HE/N2	IV	10600	2.50 1.20	5.00 2.00	CIRC CIRC	1.00MGW PEAK 250 KW TEM00	1.00 P/S 200	0.200 US 2.00	3.53 J/CM2 882 MJ/CM2	RESEARCH & OEM
GEN-TEC INC. DO-250 CO2/HE/N2	IV	10600	2.50 1.20	5.00 2.00	CIRC CIRC	2.00 J MULTI 500 MJ TEM00	1.00 P/S 250	0.100 US 10.0	3.53 J/CM2 882 MJ/CM2	RESEARCH & OEM
GEN-TEC INC. R-200-F CO2-TEA	IV	10600	1.00	0.600	CIRC	40.0 KW PEAK	200 P/S	0.400 US	40.6 MJ/CM2	RESEARCH & OEM
GEN-TEC INC. DD-300 CO2 TEA	IV	10600	2.50	3.00	CIRC	1.00MGW PEAK 0.500 J	1000 P/S	0.300 US	122 MJ/CM2 203	RESEARCH & OEM
GTE SYLVANIA 605 NEODYMIUM YAG (ND YAG)	IV	1064 1081	0.120	2.00	CIRC	250 MW TEM00 1.00 W MULTI	N/A		648 MW/CM2 2.59 W/CM2	RESEARCH & OEM
GTE SYLVANIA 606 NEODYMIUM YAG (ND YAG)	IV	1064	0.120 0.400	2.00 10.0	CIRC CIRC	700 MW TEM00 5.00 W MULTI	N/A		1.81 W/CM2 13.0	RESEARCH & OEM
GTE SYLVANIA 607 NEODYMIUM YAG (ND YAG)	IV	1064	0.120 0.400	2.00 10.0	CIRC CIRC	2.00 W TEM00 10.0 W MULTI	N/A		5.18 W/CM2 25.9	RESEARCH & OEM
GTE SYLVANIA 607Q NEODYMIUM YAG (ND YAG)	IV	1064	0.120	2.00	CIRC	1.25 W AVER	5.00 KHZ		3.24 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
GTE SYLVANIA 611 NEODYMIUM YAG (ND YAG)	IV	1064				125 W MULTI	N/A		324 W/CM2	RESEARCH & OEM
GTE SYLVANIA 612 NEODYMIUM YAG (ND YAG)	IV	1064	0.200	3.00	CIRC	10.0 W TEM00 200 W MULTI	N/A		25.9 W/CM2 518	RESEARCH & OEM
GTE SYLVANIA 615 NEODYMIUM YAG (ND YAG)	IV	1064	0.650	15.0	CIRCO	0.250 J	1.00 P/S 25.0	100 US	648 MJ/CM2	RESEARCH & OEM
GTE SYLVANIA 617-1 NEODYMIUM YAG (ND YAG)	IV	1064	0.650	15.0	CIRC	1.00 J	1.00 P/S 50.0	3.00 MS	2.59 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
GTE SYLVANIA 617-2 NEODYMIUM YAG (ND YAG)	IV	1064	0.650	10.0	CIRC	12.0 J	1.00 P/S 50.0	100 US	31.1 J/CM2	RESEARCH & OEM
GTE SYLVANIA 618 NEODYMIUM YAG (ND YAG)	IIIB	1064	0.630 0.500	5.00 2.00	CIRC CIRC	12.0 MW PEAK 6.00 MW AVER	30.0 P/S 100	10.0 NS 20.0	622 PJ/CM2 518 UJ/CM2	RESEARCH & OEM
GTE SYLVANIA 941 CO2	IV	10600	0.450	4.00	CIRC	3.00 W TEMOD	N/A		18.8 W/CM2	RESEARCH & OEM
GTE SYLVANIA 941-P CARBON DIOXIDE (CO2)	IV	10600	0.400	4.00	CIRC	3.00 W TEMOD	N/A		47.6 W/CM2	RESEARCH & OEM
GTE SYLVANIA 941-S CARBON DIOXIDE (CO2)	IV	10600	0.400	4.00	CIRC	3.00 W TEMOD	N/A		47.6 W/CM2	RESEARCH & OEM
GTE SYLVANIA 948 CARBON DIOXIDE (CO2)	IV	10600	0.450	3.50	CIRC	8.00 W TEMOD	N/A		100 W/CM2	RESEARCH & OEM
GTE SYLVANIA 950 CARBON DIOXIDE (CO2)	IV	10600	0.600		CIRC	5.00 W TEMOD	N/A		35.3 W/CM2	RESEARCH & OEM
GTE SYLVANIA 950-A CARBON DIOXIDE (CO2)	IV	10810 TO 10170	0.500		CIRC	5.00 W AVER	N/A		50.8 W/CM2	RESEARCH & OEM
GTE SYLVANIA 950-B CARBON DIOXIDE (CO2)	IV	9650 TO 9220	0.500		CIRC	5.00 W AVER	N/A		50.8 W/CM2	RESEARCH & OEM
GTE SYLVANIA 960 CARBON DIOXIDE (CO2)	IV	10600	0.500	3.50	CIRC	7.00 W TEMOD	N/A		71.1 W/CM2	RESEARCH & OEM
GTE SYLVANIA 971 CARBON DIOXIDE (CO2)	IV	10600	1.20	1.30	CIRC	1.00 KW TEMOD 2.00 KW MULTI	N/A		1.76 KW/CM2 3.53	MAT. PROCESSING
GTE SYLVANIA 1610 NEODYMIUM YAG (ND YAG)	IV	1064				2.50MW AVER 15.0 J	100 P/S	1.00 MS 8.00	64.8 KJ/CM2 38.9 J/CM2	MAT. PROCESSING
HADRON LPN SERIES RUBY ORND GLASS	IV	694.3 1060				5.00 J	1.00 P/S	800 US	13.0 J/CM2	MAT. PROCESSING

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENC (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HADRON LSQ-800-Y NEODYMIUM YAG (ND YAG)	IV	1064	0.600	10.0	CIRC	5.00 J	1.00 P/S 40.0	25.0 US	13.0 J/CM2	MAT. PROCESSING
HADRON LQ-800-G NEODYMIUM GLASS	IV	1060	1.00	10.0	CIRC	6.50 J	1.00 P/S	20.0 US	16.5 J/CM2	MAT. PROCESSING
HADRON LQ-800-Y NEODYMIUM YAG (ND YAG)	IV	1064	0.600	10.0	CIRC	0.100 J	1.00 P/S 40.0	25.0 US	259 PJ/CM2	MAT. PROCESSING
HADRON UD640 NEODYMIUM GLASS	IV	1060	6.40	2.00	CIRC	15.0 GW PEAK	0.002 P/S	30.0 NS	27.9 J/CM2	MAT. PROCESSING
HADRON VD320 NEODYMIUM GLASS	IV	1060	3.20	2.00	CIRC	3.00 GW PEAK	0.003 P/S	30.0 NS	22.3 J/CM2	RESEARCH & OEM
HADRON 103A(200) RUBY,ND-GLASS	IV	694.3 1060	0.400 0.500	10.0	CIRC CIRC	0.200 J	0.080 P/S	200 US	518 MJ/CM2	RESEARCH & OEM
HADRON 103-A(300) RUBY,NDHYPHEN	IV	694.3 1060	0.400 0.500	10.0	CIRC CIRC	0.300 J	0.080 P/S	200 US	778 MJ/CM2	RESEARCH & OEM
HADRON 103A(500) RUBY,ND-GLASS	IV	694.3 1060	0.400 0.500	10.0	CIRC CIRC	0.500 J	0.080 P/S	200 US	1.30 J/CM2	RESEARCH & OEM
HADRON 103A(800) RUBY,ND-GLASS	IV	694.3 1060	0.400 0.500	10.0	CIRC CIRC	0.800 J	0.080 P/S	200 US	2.07 J/CM2	RESEARCH & OEM
HADRON 104A-CNM(G) NEODYMIUM GLASS	IV	1060	1.00	3.00	CIRC	10.0 J 5.00	0.170 P/S	1.00 MS	25.4 J/CM2	RESEARCH & OEM
HADRON 104A-CNM(R) RUBY	IV	694.3	1.00	3.00	CIRC	5.00 J 5.00	0.170 P/S	1.00 MS	12.7 J/CM2	RESEARCH & OEM
HADRON 104A-HLNM(G) NEODYMIUM GLASS	IV	1060	1.00	3.00	CIRC	10.0 J 5.00	0.500 P/S	800 US	25.4 J/CM2	RESEARCH & OEM
HADRON 104A-HLNM(R) RUBY	IV	694.3	1.00	3.00	CIRC	1.50 J 5.00	0.500 P/S	800 US	3.81 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIAMETER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
HADRON 104A-HLPC(G) NEODYMIUM GLASS	IV	1060	1.00	3.00 5.00	CIRC	5.00 J	0.500 P/S	25.0 US	12.7 J/CM <sup>2</sup>	RESEARCH & OEM
HADRON 104A-HLPC(R) RUBY	IIIB	694.3	1.00	3.00 5.00	CIRC	0.500 J	0.500 P/S		1.27 W/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
HADRON 104A-HLRP(G) NEODYMIUM GLASS	IV	1060	1.00	3.00 5.00	CIRC	10.0 J	0.500 P/S	25.0 US	25.4 J/CM <sup>2</sup>	RESEARCH & OEM
HADRON 104A-HLRP(R) RUBY	IV	694.3	1.00	3.00 5.00	CIRC	1.50 J	0.500 P/S	25.0 US	3.81 J/CM <sup>2</sup>	RESEARCH & OEM
HADRON 104A-HMW(G) NEODYMIUM GLASS	IV	1060	1.00	3.00 5.00	CIRC	10.0 J	0.170 P/S	25.0 MS	25.4 J/CM <sup>2</sup>	RESEARCH & OEM
HADRON 104A-HMW(R) RUBY	IV	694.3	1.00	3.00 5.00	CIRC	5.00 J	0.170 P/S	15.0 US	12.7 J/CM <sup>2</sup>	RESEARCH & OEM
HADRON 104A-IG(G) NEODYMIUM GLASS	IV	1060	1.00	3.00 5.00	CIRC	5.00 J	0.170 P/S	1.00 MS	12.7 J/CM <sup>2</sup>	RESEARCH & OEM
HADRON 104A-IG(R) RUBY	IV	694.3	1.00	3.00 5.00	CIRC	3.00 J	0.170 P/S	1.00 MS	7.62 J/CM <sup>2</sup>	RESEARCH & OEM
HADRON 104A-LNM(G) NEODYMIUM GLASS	IV	1060	1.00	3.00 5.00	CIRC	10.0 J	0.170 P/S	1.00 MS	25.4 J/CM <sup>2</sup>	RESEARCH & OEM
HADRON 104A-LNM(R) RUBY	IV	694.3	1.00	3.00 5.00	CIRC	1.50 J	0.170 P/S	800 US	3.81 J/CM <sup>2</sup>	RESEARCH & OEM
HADRON 104A-LPC(G) NEODYMIUM GLASS	IV	1060	1.00	3.00 5.00	CIRC	5.00 J	0.170 P/S	25.0 MS	12.7 J/CM <sup>2</sup>	RESEARCH & OEM
HADRON 104A-LPC(R) RUBY	IV	694.3	1.00	3.00 5.00	CIRC	1.50 J	0.170 P/S	25.0 US	3.81 J/CM <sup>2</sup>	RESEARCH & OEM
HADRON 104A-LRP(PG) NEODYMIUM GLASS	IV	1060	1.00	3.00 5.00	CIRC	10.0 J	0.170 P/S	25.0 MS	25.4 J/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HADRON 104A-LRP(R) RUBY	IV	694.3	1.00	3.00 5.00	CIRC	1.50 J	0.170 P/S	25.0 US	3.81 J/CM2	RESEARCH & OEM
HADRON 104A-PCQ(G) NEODYMIUM GLASS	IV	1060	1.00	3.00 5.00	CIRC	5.00 J	0.170 P/S	25.0 MS	12.7 J/CM2	RESEARCH & OEM
HADRON 104A-PCQ(R) RUBY	IV	694.3	1.00	3.00 5.00	CIRC	2.50 J	0.170 P/S	15.0 US	6.35 J/CM2	RESEARCH & OEM
HADRON 104A-PQ(R) RUBY	IV	694.3	1.00	3.00 5.00	CIRC	750 MJ	0.080 P/S	15.0 US	1.90 J/CM2	RESEARCH & OEM
HADRON 104A-PQ(G) NEODYMIUM GLASS	IV	1060	1.00	3.00 5.00	CIRC	10.0 J	0.006 P/S	25.0 MS	25.4 J/CM2	RESEARCH & OEM
HADRON 300 RUBY	IV	694.3		3.00 5.00		1.00 GW PEAK	5.00 P/S	0.150 US	389 J/CM2	RESEARCH & OEM
HADRON 400 NEODYMIUM YAG (ND YAG)	IV	1064	0.300	1.00 15.0	CIRC	1.00 W AVER			2.59 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
HADRON 425/450 NEODYMIUM YAG (ND YAG)	IV	1064	0.300	5.00	CIRC	50.0 W MULTI 3.00 W TEMOD	N/A		130 W/CM2 7.78	RESEARCH & OEM
HADRON 513(200) RUBY,ND-GLASS	IV	694.3 1060	(.1)			0.200 J	0.080 P/S	200 US	518 MJ/CM2	SCIENTIFIC INSTR. PROVISIONAL -OSHA- CLASSIFICATION
HADRON 513(300) RUBY,ND-GLASS	IV	694.3 1060	(.1)			0.300 J	0.080 P/S	200 US	778 MJ/CM2	SCIENTIFIC INSTR. PROVISIONAL -OSHA- CLASSIFICATION
HADRON 513(500) RUBY, ND-GLASS	IV	694.3 1060	(.1)			0.500 J	0.080 P/S	200 US	1.30 J/CM2	SCIENTIFIC INSTR. PROVISIONAL -OSHA- CLASSIFICATION
HADRON 513(800) RUBY,ND-GLASS	IV	694.3 1060				0.800 J	0.080 P/S	200 US	2.07 J/CM2	SCIENTIFIC INSTR.
HADRON 604 RUBY	IV	694.3	0.950	3.00	CIRC	150 J	1.00 P/S 4.00		389 J/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HADRON 605 RUBY	IV	694.3	0.950	3.00	CIRC	150 J 5.00	1.00 P/S 4.00		389 J/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
HADRON 800 RUBY	IV	694.3	1.00	3.00	CIRC	100MGW PEAK 5.00	1.00 P/S	0.100 US 2500	25.4 J/CM2	MAT. PROCESSING
HADRON 1010 CARBON DIOXIDE (CO2)	IV	10600	1.25	8.00	CIRC	10.0 W MULTI	N/A		16.3 W/CM2	RESEARCH & OEM
HADRON 1010 CARBON DIOXIDE (CO2)	IV	10600		8.00		10.0 W MULTI	N/A		1.27 KW/CM2	RESEARCH & OEM
HADRON 1020 CARBON DIOXIDE (CO2)	IV	10600	1.25	3.00	CIRC	20.0 W MULTI	N/A		32.5 W/CM2	RESEARCH & OEM
HADRON 1020 CARBON DIOXIDE (CO2)	IV	10600	0.800		CIRC	20.0 W MULTI	N/A		79.4 W/CM2	RESEARCH & OEM
HADRON 1050 CARBON DIOXIDE (CO2)	IV	10600		8.00		50.0 W MULTI	N/A		6.35 KW/CM2	RESEARCH & OEM
HADRON 1501 NEODYMIUM YAG (ND YAG)	IV	10600	1.00	2.00	CIRC	10.0MGW PEAK 3.00	50.0 P/S	10.0 NS	254 MJ/CM2	RESEARCH & OEM
HADRON 1800-G NEODYMIUM GLASS	IV	1060	1.00	10.0	CIRC	1.00 J 5.00	1.00 P/S	800 US	2.54 J/CM2 12.7	RESEARCH & OEM
HADRON 1800-R RUBY	IV	694.3	1.00	10.0	CIRC	1.00 J 1.50	0.500 P/S	800 MS	2.54 J/CM2 3.81	RESEARCH & OEM
HADRON 1800-Y NEODYMIUM YAG (ND YAG)	IV	1064	0.600	10.0	CIRC	0.300 J	1.00 P/S 40.0	60.0 US	778 MJ/CM2	RESEARCH & OEM
H-NU 3300 HELIUM NEON (HENE)	IIIB	632.8 3391	0.800		CIRC	10.0 MW TEM00	N/A		39.7 MW/CM2	RESEARCH & OEM
H-NU 3331 HELIUM NEON (HENE)	IIIB	632.8 3391	0.300		CIRC	5.00 MW TEM00	N/A		141 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
H-NU 3335 HELIUM NEON (HE-NE)	IIIB	632.8 3391	0.800		CIRC	50.0 MW TEMO	N/A		198 MW/CM <sup>2</sup>	RESEARCH & OEM
H-NU 3350 NITROGEN (N <sub>2</sub> )	IIIB	756.8 TO 1234	0.300		CIRC	10.0 W PEAK 0.300 MW AVER	60.0 TO 500 P/S	0.500 US	13.0 UJ/CM <sup>2</sup> 778	RESEARCH & OEM
H-NU 3351 HELIUM NEON (HE-NE)	IIIB	1117	0.200		CIRC	100 W PEAK 6.00 MW AVER	60.0 TO 10000 P/S	1.00 US	259 UJ/CM <sup>2</sup> 15.6 MJ/CM <sup>2</sup>	RESEARCH & OEM
H-NU 3352 NITROGEN (N <sub>2</sub> )	IIIB	330.9 TO 399.8	0.700		CIRC	200 W PEAK 40.0 MW AVER	20.0 TO 250 P/S	0.010 US	10.4 UJ/CM <sup>2</sup> 207 MJ/CM <sup>2</sup>	RESEARCH & OEM
H-NU 3353 HG-ARGON	IIIB	1222 TO 1276	0.500		CIRC	1.00 W PEAK 0.200 MW AVER	60.0 TO 2000 P/S	0.300 US	778 NJ/CM <sup>2</sup> 518 UJ/CM <sup>2</sup>	RESEARCH & OEM
H-NU 3354 HG-HE	IIIB	479.7 TO 1058	0.500		CIRC	1.00 W PEAK 0.200 MW AVER	60.0 TO 1000 P/S	3.00 US	778 UJ/CM <sup>2</sup> 518	RESEARCH & OEM
H-NU 3355 ARGON (AR)	IIIB	351.1 706.5	0.300		CIRC	5.00 W PEAK 1.00 MW AVER	60.0 TO 2000 P/S	3.00 NS	423 NJ/CM <sup>2</sup> 28.2 MJ/CM <sup>2</sup>	RESEARCH & OEM
H-NU 3356 CO	I	5591 6614	0.300		CIRC	1.00 W PEAK 10.0 UW AVER	20.0 TO 250 P/S	0.500 US	14.1 UJ/CM <sup>2</sup> 282	RESEARCH & OEM
H-NU 3357 XENON (XE)	IIIB	460.3 TO 627.1	0.300		CIRC	5.00 W PEAK 1.00 MW AVER	60.0 TO 2000 P/S	3.00 NS	38.9 NJ/CM <sup>2</sup> 2.59 MJ/CM <sup>2</sup>	RESEARCH & OEM
H-NU 3358 O <sub>2</sub>	IIIB	374.9 672.1	0.300		CIRC	1.00 W PEAK 60.0 UW AVER	60.0 TO 500 P/S	0.100 US	2.82 UJ/CM <sup>2</sup> 1.69 MJ/CM <sup>2</sup>	RESEARCH & OEM
H-NU 3359 CO	I	4647 TO 4650	0.300		CIRC	1.00 W PEAK 0.200 UW AVER	60.0 TO 500 P/S	3.00 US	84.6 UJ/CM <sup>2</sup> 5.64	RESEARCH & OEM
H-NU 3360 NEON (NE <sub>2</sub> )	IIIB	594.4 TO 614.3	0.300		CIRC	10.0 W PEAK 6.00 UW AVER	60.0 TO 200 P/S	10.0 US	259 UJ/CM <sup>2</sup> 15.6	RESEARCH & OEM
H-NU 3361 KRYPTON (KR)	IIIB	457.7 TO 799.3	0.300		CIRC	3.00 W PEAK 0.500 MW AVER	60.0 TO 2000 P/S	3.00 NS	23.3 NJ/CM <sup>2</sup> 1.30 MJ/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
H-NU 3362 HE/1	IIIB	498.6 TO 1060	0.300		CIRC	1.00 W PEAK 60.0 UW AVER	60.0 TO 100 P/S	1.00 US	2.59 UJ/CM2 156	RESEARCH & OEM
H-NU 3363 NITROGEN (N2)	IIIB	347.9 TO 567.9	0.300		CIRC	1.00 W PEAK 0.500 MW AVER	10.0 TO 500 P/S	50.0 NS	1.41 UJ/CM2 14.1 MJ/CM2	RESEARCH & OEM
H-NU 3364 HE/KR	IIIB	431.8 TO 512.6	0.300		CIRC	1.00 W PEAK 0.200 MW AVER	60.0 TO 2000 P/S	3.00 US	7.78 UJ/CM2 518	RESEARCH & OEM
H-NU 3365 HG/N2	IIIB	412.0 TO 555.0	0.300		CIRC	1.00 W PEAK 30.0 UW AVER	10.0 P/S	3.00 US	7.78 UJ/CM2	RESEARCH & OEM
H-NU 3366 HELIUM NEON (HE/NE)	II	632.8 TO 632.8				3.50 UW		N/A	9.07 UW/CM2	RESEARCH & OEM
H-NU 3400 ARGON (AR)	IIIB	459.9 TO 514.5	0.200		CIRC	100 MW TEM00		N/A	259 MW/CM2	RESEARCH & OEM
H-NU 3401 XENON (XE)	IIIB	496.5 TO 597.1	0.200		CIRC	10.0 MW TEM00		N/A	25.9 MW/CM2	RESEARCH & OEM
H-NU 3402 NITROGEN (N2)	IIIB	569.7	0.200		CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
H-NU 3410 ARGON (AR)	IV	457.9 TO 528.7	0.100		CIRC	1000 MW TEM00		N/A	2.59 W/CM2	RESEARCH & OEM
H-NU 3411 XENON (XE)	IIIB	541.9 TO 627.1	0.100		CIRC	100 MW TEM00		N/A	259 MW/CM2	RESEARCH & OEM
H-NU 3412 KRYPTON (KR)	IIIB	520.8 TO 687.1	0.100		CIRC	500 MW TEM00		N/A	1.30 W/CM2	RESEARCH & OEM
H-NU 3415 ARGON (AR)	IV	457.9 TO 514.5				2.00 W		N/A	5.18 W/CM2	RESEARCH & OEM
H-NU 3420 ARGON (AR)	IV	457.9 TO 528.7	0.100		CIRC	3.00 W TEM00		N/A	7.78 W/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
H-NU 3421 XENON (XE)	IV	541.9 TO 627.1	0.100		CIRC	300 MW TEM00 1.50 W			778 MW/CM2 3.89 W/CM2	RESEARCH & OEM
H-NU 3422 KRYPTON (KR)	IV	520.8 TO 687.1	0.100		CIRC	5.00 W TEM00			13.0 W/CM2	RESEARCH & OEM
H-NU 3430 ARGON (AR)	IIIB	457.9 TO 528.7	0.200		CIRC	500 MW TEM00			1.30 W/CM2	RESEARCH & OEM
H-NU 3431 XENON (XE)	IIIB	541.9 TO 627.1	0.200		CIRC	500 MW TEM00			1.30 W/CM2	RESEARCH & OEM
H-NU 3432 KRYPTON (KR)	IV	520.8 TO 687.1	0.200		CIRC	205 W TEM00			531 W/CM2	RESEARCH & OEM
H-NU 3440 ARGON (AR)	IV	457.0 TO 514.5				10.0 W			25.9 W/CM2	RESEARCH & OEM
H-NU 3500 CARBON DIOXIDE (CO2)	IV	10600				1.00 W			127 W/CM2	RESEARCH & OEM
H-NU 3510 CO/N2	IV	10000	20.0		CIRC	15.0 W TEM00			95.2 MW/CM2	RESEARCH & OEM
H-NU 3511 CARBON DIOXIDE (CO2)	IV	10600				10.0 W			1.27 KW/CM2	RESEARCH & OEM
H-NU 3520 CARBON DIOXIDE (CO2)	IV	10600				100 W			12.7 KW/CM2	RESEARCH & OEM
H-NU 3600 HELIUM NEON (HENE)	II	632.8	0.010		CIRC	0.100 MW TEM00			259 UW/CM2	RESEARCH & OEM
H-NU 3601 HELIUM NEON (HENE)	II	632.8	0.010		CIRC	0.100 MW TEM00			259 UW/CM2	RESEARCH & OEM
H-NU 3701 ARGON (AR)	IV	457.9 TO 514.5	0.300		CIRC	5.00 W PEAK 0.500 W AVER	100 P/S	1.00 MS	13.0 MJ/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
H-NU 3702 XENON (XE)	IIIB	496.5 TO 597.1	0.300		CIRC	1.00 W PEAK 100 MW AVER	100 P/S	1.00 MS	2.59 MJ/CM <sup>2</sup>	RESEARCH & OEM
H-NU 3703 NITROGEN (N <sub>2</sub> )	IIIB	569.7	0.300		CIRC	1.00 W PEAK 100 MW AVER	100 P/S	1.00 MS	2.59 MJ/CM <sup>2</sup>	RESEARCH & OEM
H-NU 3800 ARGON (AR)	IV	351.1 TO 528.7	0.100		CIRC	1.00 W PEAK 2.00 MW AVER	200 P/S	0.010 NS	1.27 NJ/CM <sup>2</sup> MJ/CM <sup>2</sup>	RESEARCH & OEM
H-NU 3801 XENON (XE)	IV	496.5 TO 597.1	0.100		CIRC	1.00 W PEAK 2.00 MW AVER	200 P/S	0.010 NS	25.9 PJ/CM <sup>2</sup> UJ/CM <sup>2</sup>	RESEARCH & OEM
H-NU 3802 KRYPTON (KR)	IV	457.7 TO 687.1	0.100		CIRC	0.500 W PEAK 1.00 MW AVER	200 P/S	0.010 NS	13.0 PJ/CM <sup>2</sup> 13.0 UJ/CM <sup>2</sup>	RESEARCH & OEM
H-NU 3803 NITROGEN (N <sub>2</sub> )	IIIB	569.7	(.1)			1.00 W PEAK 1.00 MW AVER	7200 P/M	10.0 US	25.9 UJ/CM <sup>2</sup> 21.6	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
HAMAR LASER 400 HELIUM NEON (HENE)	II	632.8				0.700 MW TEMOD	N/A		1.81 MW/CM <sup>2</sup>	LEVELING/ALIGNMENT
HEWLETT-PACKARD 3805-A GA-AS	I	910.0	2.90	4.80	CIRC	2.28 UW AVER	24.0 MHZ	20.0 NS	2.87 PJ/CM <sup>2</sup>	DIST. METER
HEWLETT-PACKARD 3800B GA-AS	I	910.0	3.30	4.00	CIRC	2.36 UW AVER	24.0 MHZ	20.0 NS	2.29 PJ/CM <sup>2</sup>	DIST. METER
HEWLETT-PACKARD 5501A TRANSDUCER HELIUM NEON (HENE)	II	632.8	0.500		CIRC	0.120 MW	N/A		311 UW/CM <sup>2</sup>	MAT. PROCESSING
HI-SHEAR CORP. 595 LA-100 ND		1060	1.00		CIRC		4.00 P/M	30.0 US 40.0		RESEARCH & OEM INSUFFICIENT INFORMATION
HOLOBEAM INC. 20-1 CARBON DIOXIDE (CO <sub>2</sub> )	IV	10600	1.00	5.00	CIRC	10.0 W MULTI	N/A		25.4 W/CM <sup>2</sup>	RESEARCH & OEM
HOLOBEAM INC. 20-5 CARBON DIOXIDE (CO <sub>2</sub> )	IV	10600	1.00	5.00	CIRC	1.00 W AVER 120	10.0 P/S 140	3.00 US	254 MJ/CM <sup>2</sup> 2.18 J/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAC)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HOLOBEAM INC. 20-6 CARBON DIOXIDE (CO2)	IV	10600	0.600	2.00	CIRC	1.00 W 100	AVER 140	10.0 P/S 3.00 US	705 MJ/CM2 5.04 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 250-1P11 NEODYMIUM YAG (ND YAG)	IV	1064	0.400	3.00	CIRC	0.100 J		10.0 P/S 10.0 US	259 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 250-3P11 NEODYMIUM YAG (ND YAG)	IV	1064	0.400	3.00	CIRC	0.100 J		30.0 P/S 10.0 US	259 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 250-5P11 NEODYMIUM YAG (ND YAG)	IV	1064	0.400	3.00	CIRC	0.100 J		50.0 P/S 10.0 US	259 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 250-2 NEODYMIUM YAG (ND YAG)	IV	1064	0.300	35.0	CIRC	40.0 W 40.0	MULTI N/A		104 W/CM2	RESEARCH & OEM
HOLOBEAM INC. 250-2A NEODYMIUM YAG (ND YAG)	IV	10600	0.300	35.0	CIRC	100 W			2.82 KW/CM2	RESEARCH & OEM
HOLOBEAM INC. 250-2R NEODYMIUM YAG (ND YAG)	IV	1064	0.300	8.00	CIRC	40.0 W 10.0	MULTI N/A		104 W/CM2	RESEARCH & OEM
HOLOBEAM INC. 250-2RT NEODYMIUM YAG (ND YAG)	IV	1064	0.300	2.50	CIRC	5.00 W	TEM00 N/A		13.0 W/CM2	RESEARCH & OEM
HOLOBEAM INC. 250-2RTA NEODYMIUM YAG (ND YAG)	IV	1064	0.300	2.50	CIRC	8.00 W	MULTI N/A		20.7 W/CM2	RESEARCH & OEM
HOLOBEAM INC. 250-2RA/250134 NEODYMIUM YAG (ND YAG)	IIIB	1064	0.300		CIRC	40.0 PW	MULTI N/A		104 MW/CM2	RESEARCH & OEM
HOLOBEAM INC. 250-24 NEODYMIUM YAG (ND YAG)	IV	1064	0.400	35.0	CIRC	100 W 40.0	MULTI N/A		259 W/CM2	RESEARCH & OEM
HOLOBEAM INC. 250-24R NEODYMIUM YAG (ND YAG)	IV	1064	0.400	8.00	CIRC	60.0 W 10.0	MULTI N/A		156 W/CM2	RESEARCH & OEM
HOLOBEAM INC. 254 NEODYMIUM YAG (ND YAG)	IV	1064	0.400	6.00	CIRC	2.00 W 8.00	TEM00 20.0 W MULTI		5.18 W/CM2 51.8	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HOLOBEAM INC. 255 NEODYMIUM YAG (ND YAG)	IV	1064	0.400	6.00 8.00	CIRC	16.0 KW PEAK	0.500 KHZ 24.0	200 US 300	12.4 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 255-Q NEODYMIUM YAG (ND YAG)	IV	1064	0.400	6.00 8.00	CIRC	16.0 KW PEAK	0.500 KHZ 24.0	0.200 US 0.300	8.29 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 255-T NEODYMIUM YAG (ND YAG)	IV	1064	0.150	2.00	CIRC	2.30 W TEMPO	N/A		5.96 W/CM2	RESEARCH & OEM
HOLOBEAM INC. 255-QT NEODYMIUM YAG (ND YAG)	IV	1064	0.150	2.00	CIRC	5.00 KW PEAK	0.500 KHZ 24.0	15.0 US 25.0	324 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 255-QG ND-YAG DOUBLED	IV	532.0		8.00		1.00 W AVER 1.50 KW PEAK	0.500 TO 24.0 KHZ	0.100 US 0.250	2.59 J/CM2 972 UJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 256-Q NEODYMIUM YAG (ND YAG)	IV	1064		6.00 8.00		30.0 W AVER 24.0 KW PEAK	0.500 TO 24.0 KHZ	0.200 US 0.300	77.8 J/CM2 18.7 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 256-Q2 NEODYMIUM YAG (ND YAG)	IV	1064		6.00 8.00		50.0 W AVER 40.0 KW PEAK	0.500 TO 24.0 KHZ	0.200 US 0.300	130 J/CM2 31.1 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 256-QES NEODYMIUM YAG (ND YAG)	IV	1340		6.00 8.00		12.0 W AVER 10.0 KW PEAK	0.500 TO 24.0 KHZ	0.150 US 0.250	31.1 J/CM2 6.48 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 256-M NEODYMIUM YAG (ND YAG)	IV	1064				2.50 W AVER	75.0 TO 500 MHZ	150 US	6.48 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 256 NEODYMIUM YAG (ND YAG)	IV	1064	0.150	8.00	CIRC	50.0 W MULTI	N/A		130 W/CM2	RESEARCH & OEM
HOLOBEAM INC. 256-LD NEODYMIUM YAG (ND YAG)	IV	1064	0.400	4.00	CIRC	25.0 W MULTI	N/A		64.8 W/CM2	RESEARCH & OEM
HOLOBEAM INC. 256-QG ND-YAG DOUBLED	IV	530.0	0.141	2.00	CIRC	3.00 KW PFAK 0.200 MJ	0.500 TO 24000 P/S	0.100 US 0.250	1.94 MJ/CM2 518 UJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 256-QUV ND-YAG QUAD.	IV	265.0	0.141	2.00	CIRC	200 W PEAK 10.0 UJ	0.500 P/S 24000	100 NS 200	5.08 MJ/CM2 1.27	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HOLOBEAM INC. 256-QLD NEODYMIUM YAG (ND YAG)		1064					24.0 KHZ	0.250 US		RESEARCH & OEM INSUFFICIENT INFORMATION
HOLOBEAM INC. 256-OR NEODYMIUM YAG (ND YAG)	IV	670.0		6.00 8.00		1.00 W AVER 1.50 KW PEAK	0.500 TO 24.0 KHZ	0.150 US	2.59 J/CM2 972 UJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 256-QT NEODYMIUM YAG (ND YAG)	IV	1064	0.150	2.00	CIRC	3.00 KW PEAK	0.500 KHZ 24.0	15.0 US 25.0	194 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 256-QT NEODYMIUM YAG (ND YAG)	IV	1064	0.400		CIRC	3.00 KW PEAK	0.500 KHZ 24.0	15.0 US 25.0	117 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 256-T NEODYMIUM YAG (ND YAG)	IV	1064	0.150	2.00	CIRC	5.60 W TEMOD		N/A	14.5 W/CM2	RESEARCH & OEM
HOLOBEAM INC. 300 RUBY	IV	694.3	0.950	5.00	CIRC	0.500MGW PEAK	0.100 P/S	1000 US	1.30 KJ/CM2	MAT. PROCESSING
HOLOBEAM INC. 300-CMR RUBY	IV	694.3	1.00	5.00 7.00	CIRC	5000 W PEAK	1.00 P/S	1000 US	12.7 J/CM2	MAT. PROCESSING
HOLOBEAM INC. 301 NEODYMIUM GLASS	IV	1060	0.950	5.00 7.00	CIRC	12.0 J	0.060 P/S	1.00 MS	31.1 J/CM2	MAT. PROCESSING
HOLOBEAM INC. 302 RUBY	IV	694.3	0.950	3.00 5.00	CIRC	75.0MGW PEAK 1.00 J	0.050 P/S	15.0 MS	2.92 J/CM2 2.59	RESEARCH & OEM
HOLOBEAM INC. 303 NEODYMIUM GLASS	IV	1060	0.950	3.00 5.00	CIRC	50.0MGW PEAK	0.033 P/S	15.0 MS	1.94 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 310 RUBY	IV	694.3	0.950	3.00 5.00	CIRC	10.0 J	0.160 P/S	1.00 MS	25.9 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 311 NEODYMIUM GLASS	IV	1060	0.950	3.00 5.00	CIRC	10.0 J	0.060 P/S	1.00 MS	25.9 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 320 RUBY	IV	694.3	0.950	3.00 5.00	CIRC	10.0 J	0.500 P/S	10.0 US 30.0	25.9 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- BEAM GENGE SHAPE (MRAD)	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HOLOBEAM INC. 321 RUBY	IV	694.3 0.950	4.00 CIRC 6.00	1.00 J	0.500 P/S	15.0 NS	2.59 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 322 NEODYMIUM YAG (ND YAG)	IV	1064 0.900	5.00 CIRC 7.00	20.0 KW PFAK	0.500 KHZ 1.00	1.00 MS 7.00	51.8 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 330 RUBY	IV	694.3 0.950	3.00 CIRC 5.00	1.50 J	0.100 P/S	10.0 NS 30.0	3.89 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 330-1 RUBY	IV	694.3 0.900	3.00 CIRC 5.00	1.00 J	8.00 P/S	10.0 US 30.0	2.59 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 331 RUBY,ND-GLASS	IV	1060 0.950 694.3	3.00 CIRC 5.00	1.00 J	0.060 P/S	10.0 US 30.0	2.59 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 350 RUBY	IV	694.3 0.200	CIRC	40.0 MJ	2.00 P/S	10.0 US 30.0	104 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 351 RUBY	IV	694.3 0.141	CIRC	20.0 MJ	0.050 P/S	10.0 US 30.0	51.8 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 353 RUBY	IV	694.3 0.141	CIRC	40.0 MJ	0.050 P/S	10.0 NS 30.0	104 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 355 RUBY	IV	694.3 0.424	CIRC	0.500 J	0.033 P/S	10.0 NS 30.0	1.30 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 356 NEODYMIUM YAG (ND YAG)	IV	1064 0.141	CIRC	30.0 MJ	0.050 MJ	10.0 NS 30.0	77.8 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 500 NEODYMIUM YAG (ND YAG)	11IB	1064 0.400	3.00 CIRC	150 MJ	20.0 TO 50.0 P/S	300 US	389 MJ/CM2	MAT. PROCESSING
HOLOBEAM INC. 500-Q NEODYMIUM YAG (ND YAG)	IV	1064 0.400	3.00 CIRC	100 MJ 8.00MGW PEAK	20.0 TO 50.0 P/S	12.0 NS	259 MJ/CM2 249	MAT. PROCESSING
HOLOBEAM INC. 500-Q6 ND-YAG DOUBLED	IV	532.0 0.400	3.00 CIRC	25.0 MJ 2.50MGW PEAK	20.0 TO 50.0 P/S	11.0 NS	64.8 MJ/CM2 71.3	MAT. PROCESSING

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVFR- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HOLOBEAM INC. 500-QT NEODYMIUM YAG (ND YAG)	IIIB	1064	0.400	3.00	CIRC	25.0 MJ 1.60MGW PEAK	20.0 TO 50.0 P/S	15.0 NS	64.8 MJ/CM2 62.2	MAT. PROCESSING
HOLOBEAM INC. 500-QUV ND-YAG QUADR.	IIIB	261.0	0.400	3.00	CIRC	3.00MGW PEAK 3.00 MJ	20.0 TO 50.0 P/S	10.0 NS	476 MJ/CM2 47.6	MAT. PROCESSING
HOLOBEAM 523 NEODYMIUM YAG (ND YAG)	IV	1064		3.00 5.00		0.100 J	10.0 P/S	10.0 NS	259 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 572-20 CARBON DIOXIDE (CO2)	IV	1060	1.00	5.00	CIRC	10.0 W MULTI	N/A		25.4 W/CM2	MAT. PROCESSING
HOLOBEAM INC. 596 600-PCN NEODYMIUM GLASS	IIIB	1060	1.00	2.00 3.00	CIRC	200 W PEAK	1.00 P/S	10.0 NS 30.0	5.08 UJ/CM2	MAT. PROCESSING
HOLOBEAM INC. 600 RUBY	IV	694.3	0.950	5.00 7.00	CIRC	30.0 J	0.100 P/S	1.00 MS	77.8 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 600-DAR RUBY	IV	694.3	1.30	3.00 5.00	CIRC	500MGW PEAK	1.00 P/S	20.0 US 15.0	15.0 KJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 601 NEODYMIUM GLASS	IV	1060	0.950	5.00 7.00	CIRC	30.0 J	0.060 P/S	1.00 MS	77.8 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 602 RUBY	IV	694.3	0.950	3.00 5.00	CIRC	2.00 J	0.050 P/S	15.0 NS	5.18 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 603 NEODYMIUM GLASS	IV	1060	0.950	3.00 5.00	CIRC	150MGW PEAK 2.00 J	0.033 P/S	15.0 NS	5.83 J/CM2 5.18	RESEARCH & OEM
HOLOBEAM INC. 610 RUBY	IV	694.3	0.900	3.00 5.00	CIRC	30.0 J	6.00 P/S	1.00 MS	77.8 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 610-1 RUBY	IV	694.3	0.884	3.00 5.00	CIRC	45.0 J	6.00 P/S	1.00 MS	73.1 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 611 NEODYMIUM GLASS	IV	1060	0.900	3.00 5.00	CIRC	30.0 J	60.0 P/S	1.00 MS	77.8 J/CM2	MAT. PROCESSING

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HOLOBEAM INC. 611-1 NEODYMIUM GLASS	IV	1060	1.25	3.00 5.00	CIRC	45.0 J	3.00 P/S	1.00 MS 10.0	73.1 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 620 RUBY	IV	694.3		7.00		20.0 J	60.0 P/M	1.00 MS	51.8 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 621 NEODYMIUM YAG (ND YAG)	IV	1064		7.00		20.0 J	60.0 P/M	1.00 MS 8.00	51.8 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 622 NEODYMIUM YAG (ND YAG)	IV	1064		7.00		50.0 J	30.0 P/M	1.00 MS 8.00	130 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 623 NEODYMIUM YAG (ND YAG)	IV	1064		7.00		100 J	10.0 P/M	1.80 MS	259 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 624 RUBY	IV	694.3	0.950	5.00 7.00	CIRC	100MGW PEAK 1.50 J	1.00 P/S	15.0 NS	3.89 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 625 RUBY	IV	694.3	0.950	5.00 7.00	CIRC	3.00 J	1.00 P/S	15.0 NS	7.78 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 630 RUBY	IV	694.3	0.950	3.00 5.00	CIRC	2.00 J	0.100 P/S	15.0 NS 30.0	5.18 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 631 NEODYMIUM GLASS	IV	1060	0.950	3.00 5.00	CIRC	2.00 J	0.100 P/S	15.0 NS 30.0	5.18 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 634 RUBY	IV	694.3	1.25	3.00 5.00	CIRC	3.50 J	0.100 P/S	15.0 NS 30.0 US	5.69 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 635 NEODYMIUM GLASS	IV	1060	1.25	3.00 5.00	CIRC	3.50 J	0.060 P/S	15.0 NS 30.0	5.69 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 635-G NEODYMIUM GLASS	IV	530.0	1.25	3.00 5.00	CIRC	25.0MGW PEAK 0.350 J	4.00 P/M	15.0 NS	609 MJ/CM2 569	RESEARCH & OEM
HOLOBEAM INC. 650 RUBY	IV	694.3	0.600	0.100	CIRC	10.0MGW PEAK 150 MJ	0.033 P/S	10.0 NS 30.0	259 MJ/CM2 389	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HOLOBEAM INC. 651 RUBY	IV	694.3	0.141		CIRC	75.0 MJ	0.033 P/S	10.0 NS 30.0	194 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 653 RUBY	IV	694.3	0.141		CIRC	150 MJ	0.033 P/S	10.0 NS 30.0	389 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 654 RUBY	IV	694.3	0.424		CIRC	1.00 J	0.033 P/S	10.0 NS 30.0	2.59 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 655 RUBY	IV	694.3	0.800		CIRC	500 MJ	0.033 P/S	10.0 NS 30.0	1.30 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 657 RUBY	IV	694.3	0.424		CIRC	1.00 J	0.033 P/S	10.0 NS 30.0	2.59 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 660 RUBY	IV	694.3	0.900	3.00 5.00	CIRC	15.0 J	30.0 P/S	15.0 US 30.0	38.9 J/CM2	MAT. PROCESSING
HOLOBEAM INC. 810 RUBY	IV	694.3		7.00		100 J	4.00 P/H	1.50 MS	259 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 811 NEODYMIUM GLASS	IV	1060		7.00		100 J	4.00 P/H	1.50 MS	259 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 830 RUBY	IV	694.3		7.00		10.0 J 500 MW PEAK	4.00 P/H	20.0 MS	25.9 J/CM2 25.9 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 831 NEODYMIUM GLASS	IV	1060		7.00		10.0 J 500 MW PEAK	4.00 P/H	20.0 MS	25.9 J/CM2 25.9 MJ/CM2	RESEARCH & OEM
HOLOBEAM 900 NEODYMIUM YAG (ND YAG)	IV	1064		15.0		400 W AVER			1.04 kW/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
HOLOBEAM INC. 900 SERIES NEODYMIUM YAG (ND YAG)	IV ENCL	1064	0.424	10.0	CIRC	100 W MULTI	N/A		259 W/CM2	MAT. PROCESSING CLASS I AS ENCLOSED
HOLOBEAM INC. 910 SERIES ND-YAG Q SWITCHED	IIIB ENCL	1064	0.283	2.00	CIRC	3.00 KW PEAK	0.500 TO 24.0 KHZ	15.0 US 25.0	194 MJ/CM2	MAT. PROCESSING CLASS I AS ENCLOSED

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HOLOBEAM INC. 920 SERIES RUBY	IV ENCL	694.3	0.919	3.00 5.00	CIRC	500MGW PEAK	1.00 P/S	15.0 US 20.0	25.9 KJ/CM2	MAT. PROCESSING CLASS I AS ENCLOSED
HOLOBEAM INC. 930 SERIES RUBY	IV ENCL	694.3	0.672	5.00 7.00	CIRC	30.0 J	0.100 P/S	1.00 MS	77.8 J/CM2	MAT. PROCESSING CLASS I AS ENCLOSED
HOLOBEAM INC. 940 SERIES RUBY	IV ENCL	694.3	0.919	3.00 5.00	CIRC	500MGW PEAK	1.00 P/S	15.0 US 20.0	25.9 KJ/CM2	MAT. PROCESSING CLASS I AS ENCLOSED
HOLOBEAM INC. 950 SERIES NEODYMIUM YAG (ND YAG)	IV ENCL	1064	0.106	2.00	CIRC	5.00 KW PEAK	0.500 TO 24.0 KHZ	15.0 US 25.0	324 MJ/CM2	MAT. PROCESSING CLASS I AS ENCLOSED
HOLOBEAM INC. 980 SERIES RUBY	IV	694.3	0.672	5.00 7.00	CIRC	30.0 J	0.100 P/S	1.00 MS	77.8 J/CM2	MAT. PROCESSING
HOLOBEAM INC. 990 SERIES NEODYMIUM GLASS	IV	1064	1.13	10.0	CIRC	0.200MGW PEAK	0.100 P/S	50.0 US	19.9 J/CM2	MAT. PROCESSING
HOLOBEAM INC. 1200 GYRO-BALANCED NEODYMIUM GLASS	IV	1060	1.60	10.0	CIRC	0.200MGW PEAK	0.100 P/S	50.0 US	9.92 J/CM2	MAT. PROCESSING
HOLOBEAM INC. 1200-1 NEODYMIUM GLASS	IV	1060		8.00		12.0 J	6.00 P/M	1.00 MS	31.1 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 1200-2 NEODYMIUM GLASS	IV	1060		15.0		8.00 J	20.0 P/M	60.0 US	20.7 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 1200-3 NEODYMIUM GLASS	IV	1060		8.00		8.00 J	20.0 P/M	60.0 US	20.7 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 1200-4 NEODYMIUM GLASS	IV	1060		8.00		20.0 J	6.00 P/M	1.00 MS	51.8 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 1200-5 NEODYMIUM GLASS	IV	1060		8.00		40.0 J	3.00 P/M	4.00 MS	104 J/CM2	RESEARCH & OEM
HOLOBEAM INC. 1200-6 NEODYMIUM GLASS	IV	1060		8.00		60.0 J	30.0 P/M	6.00 MS	156 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HOLIBEAM INC. 2500-1 NEODYMIUM YAG (ND YAG)	IV	1064	0.600	10.0	CIRC	100 W MULTI			259 W/CM2	MAT. PROCESSING
							N/A			
HOLIBEAM INC. 2500 IR NEODYMIUM YAG (ND YAG)	IV	1064	0.630	15.0	CIRC	100 W AVER			259 W/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
HOLIBEAM INC. 2500-2A NEODYMIUM YAG (ND YAG)	IV	1064	0.630	10.0	CIRC	200 W AVER			518 W/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
HOLIBEAM INC. 2550-IR NEODYMIUM YAG (ND YAG)	IV	1064		12.0		125 W			324 W/CM2	RESEARCH & OEM
							N/A			
HOLIBEAM INC. 2500-6 NEODYMIUM YAG (ND YAG)	IV	1064	0.630	12.0	CIRC	600 W AVER			1.56 KW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
HOLIBEAM INC. 2500.8 NEODYMIUM YAG (ND YAG)	IV	1064	0.630	12.0	CIRC	800 W AVER			2.07 KW/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
HOLIBEAM INC. 2500-10 NEODYMIUM YAG (ND YAG)	IV	1064	0.630	12.0	CIRC	1.00 KW MULTI			2.59 KW/CM2	MAT. PROCESSING
							N/A			
HOLIBEAM INC. 2500-Y NEODYMIUM YAG (ND YAG)	IV	1064	0.600	12.0	CIRC	400 W MULTI			1.04 KW/CM2	MAT. PROCESSING
							N/A			
HOLIBEAM INC. 2550-2R NEODYMIUM YAG (ND YAG)	IV	1064		8.00 12.0		200 TO 250 W			518 W/CM2 648	MAT. PROCESSING
							N/A			
HOLIBEAM INC. 2550-3R NEODYMIUM YAG (ND YAG)	IV	1064		12.0 15.0		300 TO 375 W			778 W/CM2 972	MAT. PROCESSING
							N/A			
HOLIBEAM INC. 2550-4R NEODYMIUM YAG (ND YAG)	IV	1064		12.0 15.0		400 TO 500 W			1.04 KW/CM2 1.30	MAT. PROCESSING
							N/A			
HOLIBEAM INC. 2550-5R NEODYMIUM YAG (ND YAG)	IV	1064		14.0 18.0		500 TO 625 W			1.30 KW/CM2 1.62	MAT. PROCESSING
							N/A			
HOLIBEAM INC. 2550-6R NEODYMIUM YAG (ND YAG)	IV	1064		14.0 18.0		600 TO 750 W			1.56 KW/CM2 1.94	MAT. PROCESSING
							N/A			

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HOLOBEAM INC. 2550-7R NEODYMIUM YAG (ND YAG)	IV	1064		16.0 20.0		700 TO 875 W		N/A	1.81 KW/CM2 2.27	MAT. PROCESSING
HOLOBEAM INC. 2550-8R NEODYMIUM YAG (ND YAG)	IV	1064		16.0 20.0		800 TO 1000 W		N/A	2.07 KW/CM2 2.59	MAT. PROCESSING
HOLOBEAM INC. 2550-1RQ NEODYMIUM YAG (ND YAG)	IV	1064		8.00 12.0		200 W AVER 75.0	0.500 TO 24.0 KHZ	0.200 US 0.300	518 J/CM2 194	MAT. PROCESSING
HOLOBEAM INC. 2550-2RQ NEODYMIUM YAG (ND YAG)	IIIB	1064	0.630	10.0	CIRC	75.0 KW PEAK	0.500 P/S 24.0 KHZ	0.200 US 0.300	58.3 MJ/CM2	RESEARCH & OEM
HOLOBEAM INC. 3081 RUBY	IV	694.3	1.90	3.00 5.00	CIRC	7.00 J 500MGW PEAK	0.033 P/S	15.0 NS	4.92 J/CM2 5.28	RESEARCH & OEM
HOLOBEAM INC. 3082 NEODYMIUM GLASS	IV	1060	1.90	3.00 5.00	CIRC	7.00 J 500MGW PEAK	0.033 P/S	15.0 NS	4.92 J/CM2 5.28	RESEARCH & OEM
HOLOBEAM INC. 5050 NEODYMIUM YAG (ND YAG)	IV	1064	0.600	3.00	CIRC	400 MJ	20.0 P/S 50.0	300 US	1.04 J/CM2	MAT. PROCESSING
HOLOBEAM INC. 5050-Q NEODYMIUM YAG (ND YAG)	IV	1064	0.600	3.00	CIRC	25.0MGW PFAK 300 MJ	20.0 TO 50.0 P/S	12.0 NS	778 MJ/CM2 778	MAT. PROCESSING
HOLOBEAM INC. 5050-QG ND-YAG DOUBLED	IV	532.0	0.600	3.00	CIRC	8.00MGW PEAK 80.0 MJ	20.0 TO 50.0 P/S	11.0 NS	228 MJ/CM2 267	MAT. PROCESSING
HOLOBEAM INC. 5050-QT NEODYMIUM YAG (ND YAG)	IV	1064	0.600	3.00	CIRC	25.0MGW PEAK 300 MJ	20.0 TO 50.0 P/S	15.0 NS	972 MJ/CM2 778	MAT. PROCESSING
HOLOBEAM INC. 5050-QUV ND-YAG QUADR.	IIIB	261.0	0.600	3.00	CIRC	5.00MGW PFAK 50.0 MJ	20.0 TO 50.0 P/S	10.0 NS	353 MJ/CM2	MAT. PROCESSING
HOLOBEAM INC. 5055 NEODYMIUM YAG (ND YAG)	IV	1064	0.600	3.00	CIRC	1200 MJ	20.0 TO 50.0 P/S	300 US	3.11 J/CM2	MAT. PROCESSING
HOLOBEAM INC. 5055-Q NEODYMIUM YAG (ND YAG)	IV	1064	0.600	3.00	CIRC	80.0MGW PFAK 1000 MJ	20.0 TO 50.0 P/S	12.0 NS	2.49 J/CM2 2.59	MAT. PROCESSING

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAO)	BEAM SHAPE	OUTPUT POWER/ENFRGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
HOLOBEAM INC. 5055-QG ND-YAG DOUBLED	IV	532.0	0.600	3.00	CIRC	22.0MGW PEAK 250 MJ	20.0 TO 50.0 P/S	11.0 NS	627 MJ/CM <sup>2</sup> 648	MAT. PROCESSING
HOLOBEAM INC. 5055-QT NEODYMIUM YAG (ND YAG)	IV	1064	0.600	3.00	CIRC	15.0MGW PEAK 250 MJ	20.0 P/S 50.0	15.0 NS	583 MJ/CM <sup>2</sup> 648	MAT. PROCESSING
HOLOBEAM INC. 5055-QUV ND-YAG QUADR.	IIIB	261.0	0.600	3.00	CIRC	5.00MGW PEAK 50.0 MJ	20.0 TO 50.0 P/S	10.0 NS	353 MJ/CM <sup>2</sup>	MAT. PROCESSING
HOLOBEAM INC. 6081 NEODYMIUM GLASS	IV	1060	1.90	3.00	CIRC	14.0 J 5.00 1.00 GW PEAK	0.023 P/S	15.0 NS	9.85 J/CM <sup>2</sup> 10.6	RESEARCH & OEM
HOLOBEAM INC. 6082 NEODYMIUM GLASS	IV	1060	1.90	3.00	CIRC	14.0 J 5.00 1.00 GW PEAK	0.023 P/S	15.0 NS	9.85 J/CM <sup>2</sup> 10.6	RESEARCH & OEM
HOLOBEAM INC. INTRUSION ALARM GA-AS	IV	905.0				1.00 W AVER	30.0 P/S	200 NS	86.4 MJ/CM <sup>2</sup>	INT. ALARMS + COM.
HOLOBEAM INC. 6812 NEODYMIUM GLASS	IV	1060	1.80	3.00	CIRC	3.00 GW PEAK 5.00	0.023 P/S	15.0 NS	35.3 J/CM <sup>2</sup>	RESEARCH & OEM
HOLOBEAM INC. 6824 NEODYMIUM GLASS	IV	1060	2.54	3.00	CIRC	6.00 GW PEAK 5.00	0.023 P/S	15.0 NS	35.4 J/CM <sup>2</sup>	RESEARCH & OEM
HOLOBEAM INC. LAZA-COM GA-AS	IV	905.0		1.00		8.00 W AVER 300	60.0 P/S	80.0 NS	346 MJ/CM <sup>2</sup>	COMMUNICATOR
HONEYWELL MP-LASER CO2-Q-SWITCHED	IV	10600	0.424	5.00	CIRC	20.0 W CW 1.00 KW PFAK	500 P/S	300 US	282 W/CM <sup>2</sup> 4.24 J/CM <sup>2</sup>	MILITARY
HONEYWELL 5000 CARBON DIOXIDE (CO2)	IV	10600	0.424	2.00	CIRC	3.00 W AVER			21.2 W/CM <sup>2</sup>	MILITARY PROVISIONAL -OSHA- CLASSIFICATION
HONEYWELL 5000 CARBON DIOXIDE (CO2)	IV	10600	0.424	2.00	CIRC	3.00 W TEM00	N/A		42.4 W/CM <sup>2</sup>	MILITARY
HONEYWELL 7000 CARBON DIOXIDE (CO2)	IV	10600	0.424	2.00	CIRC	5.00 W AVER			35.3 W/CM <sup>2</sup>	MILITARY PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HONEYWELL 7000 CARBON DIOXIDE (CO2)	IV	10600	0.424	2.00	CIRC	5.00 W TEM00			70.6 W/CM2	MILITARY
							N/A			
HONEYWELL 9000 CARBON DIOXIDE (CO2)	IV	10600	0.600		CIRC	20.0 W TEM00			141 W/CM2	COMMUNICATOR
							N/A			
HONEYWELL 2200 CARBON DIOXIDE (CO2)	IV	10600 10200	0.100	15.0	CIRC	1.00 W			127 W/CM2	COMMUNICATOR WAVEGUIDE LASER
							N/A			
HUGHES 35 HELIUM NEON (HENE)	IIIB	632.8	0.150		CIRC	3.00 MW TEM00			7.78 MW/CM2	RESEARCH & OEM
							N/A			
HUGHES AIRCRAFT 200 RUBY	IV	694.3				1.00 J	3.00 P/M	0.500 MS 1.00	2.59 J/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 202 RUBY	IV	694.3				1.00 J	3.00 P/M	0.500 MS 1.00	2.59 J/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 302 RUBY	IV	694.3				4.00 J	2.00 P/M	0.500 MS 1.00	10.4 J/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3012-H HELIUM NEON (HENE)	IIIB	632.8	0.950	1.00	CIRC	2.00 MW			5.18 MW/CM2	RESEARCH & OEM
							N/A			
HUGHES AIRCRAFT 3013-H HELIUM NEON (HENE)	IIIB	632.8	0.063	1.30	CIRC	2.00 MW			5.18 MW/CM2	RESEARCH & OEM
							N/A			
HUGHES AIRCRAFT 3014-H HELIUM NEON (HENE)	IIIB	632.8	0.950	1.00	CIRC	4.00 MW			10.4 MW/CM2	RESEARCH & OEM
							N/A			
HUGHES AIRCRAFT 3017-H HELIUM NEON (HENE)	IIIB	632.8	0.081	1.00	CIRC	4.00 MW			10.4 MW/CM2	RESEARCH & OEM
							N/A			
HUGHES AIRCRAFT 3018-H HELIUM NEON (HENE)	IIIB	632.8	0.950	1.00	CIRC	5.00 MW			13.0 MW/CM2	RESEARCH & OEM
							N/A			
HUGHES AIRCRAFT 3021-H HELIUM NEON (HENE)	IIIB	632.8	0.063	1.30	CIRC	1.00 MW TEM00			2.59 MW/CM2	RESEARCH & OEM
							N/A			

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HUGHES AIRCRAFT 3021-HP HELIUM NEON (HENE)	IIIB	632.8	0.063	1.30	CIRC	1.00 MW TEM00			2.59 MW/CM2	RESEARCH & OEM
							N/A			
HUGHES AIRCRAFT 3022-H HELIUM NEON (HENE)	IIIB	632.8	0.063	1.30	CIRC	2.00 MW TEM00			5.18 MW/CM2	RESEARCH & OEM
							N/A			
HUGHES AIRCRAFT 3022-HP HELIUM NEON (HENE)	IIIB	632.8	0.063	1.30	CIRC	2.00 MW TEM00			5.18 MW/CM2	RESEARCH & OEM
							N/A			
HUGHES AIRCRAFT 3024-H HELIUM NEON (HENE)	IIIB	632.8	0.081	1.00	CIRC	4.00 MW TEM00			10.4 MW/CM2	RESEARCH & OEM
							N/A			
HUGHES AIRCRAFT 3024-HP HELIUM NEON (HENE)	IIIB	632.8	0.081	1.00	CIRC	4.00 MW TEM00			10.4 MW/CM2	RESEARCH & OEM
							N/A			
HUGHES AIRCRAFT 3025-H HELIUM NEON (HENE)	IIIB	632.8	0.081	1.00	CIRC	5.00 MW TEM00			13.0 MW/CM2	RESEARCH & OEM
							N/A			
HUGHES AIRCRAFT 3025-HP HELIUM NEON (HENE)	IIIB	632.8	0.081	1.00	CIRC	5.00 MW TEM00			13.0 MW/CM2	RESEARCH & OEM
							N/A			
HUGHES AIRCRAFT 3030-H KRYPTON (KR)	IV	488.0 TO 514.5	0.354		CIRC	35.0 W PEAK 50.0 MW AVER	1.00 P/S 150	20.0 US 50.0	4.54 MJ/CM2 130	RESEARCH & OEM
HUGHES AIRCRAFT 3030-H/A KRYPTON (KR)	IV	457.9 TO 528.7	0.050	1.00	CIRC	9.00 W AVER	1.00 P/S 60.0	50.0 US	23.3 J/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3030-H/K KRYPTON (KR)	IV	476.2 TO 647.1	0.354	5.00	CIRC	3.00 W AVER	1.00 P/S 60.0	50.0 US	7.78 J/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3030-H/UV KRYPTON (KR)	IV	351.1 TO 379.5	0.354	5.00	CIRC	8.00 W AVER	1.00 P/S 60.0	50.0 US	162 J/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3030H/X XENON (XE)	IV	496.5 TO 597.1		2.00		800 W AVER	1.00 TO 60.0 P/S		2.07 KW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
HUGHES AIRCRAFT 3031-H KRYPTON (KR)	IV	457.9 TO 527.8	0.177	1.00	CIRC	1.50 W AVER	1.00 P/S 60.0	50.0 US	3.89 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HUGHES AIRCRAFT 3035-H HELIUM NEON (HeNe)	IIIB	632.8	0.130	0.100	CIRC	10.0 MW		N/A	25.9 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3040-H KRYPTON (KR)	IV	488.0 TO 514.5	0.177	1.00	CIRC	1.00 W PEAK 3.00 MW AVER	1.00 P/S 200	50.0 US	130 UJ/CM2 7.78 MJ/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3041-H KRYPTON (KR)	IV	488.0 TO 514.5	0.424	1.00	CIRC	20.0 W PEAK 50.0 MW AVER	1.00 P/S 5.00	50.0 US	2.59 MJ/CM2 130	RESEARCH & OEM
HUGHES AIRCRAFT 3042-H KRYPTON (KR)	IIIB	488.0 TO 514.5	0.177	1.00	CIRC	1.50 W PEAK 3.00 MW AVER	1.00 P/M 60.0	50.0 US	194 UJ/CM2 7.78 MJ/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3043-H KRYPTON (KR)	IIIB	476.2 TO 647.1	0.424	2.00	CIRC	1.20 W PEAK 3.00 MW AVER	1.00 P/M 100	50.0 US	156 UJ/CM2 7.78 MJ/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3044-H ARGON (AR)	IIIB	457.9 TO 514.5	0.600	2.00	CIRC	8.00 W PEAK 20.0 MW AVER	1.00 TO 100 P/M	50.0 US	1.04 MJ/CM2 51.8 31.1	RESEARCH & OEM
HUGHES AIRCRAFT 3045-H KRYPTON (KR)	IIIB	457.9 TO 514.5	0.141	1.00	CIRC	2.00 W PEAK 5.00 MW AVER	1.00 TO 200 P/M	20.0 US	104 UJ/CM2 13.0 MJ/CM2 3.89	RESEARCH & OEM
HUGHES AIRCRAFT 3046-H ARGON (AR)	IIIB	351.1 TO 379.5	0.424	1.00	CIRC	4.00 W PEAK 1.00 MW AVER	1.00 P/M 5.00	20.0 US	1.13 MJ/CM2 14.1	RESEARCH & OEM
HUGHES AIRCRAFT 3047-H KRYPTON (KR)	IV	457.9 TO 528.7	0.354	2.00	CIRC	80.0 W AVER	200 P/S 500	10.0 US 200	1.04 J/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3051-H ARGON (AR)	IV	457.9 TO 514.5	0.150		CIRC	1.00 W TEM00		N/A	2.59 W/CM2	RESEARCH & OEM LAMBDA RANGE 15 ARGON SPECTRUM
HUGHES AIRCRAFT 3052-H KRYPTON (KR)	IIIB	457.9 TO 514.5	0.085	0.700	CIRC	10.0 MW TEM00		N/A	25.9 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3055-H KRYPTON (KR)	IV	457.9 TO 514.5	0.106	0.700	CIRC	3.00 W TEM00		N/A	7.78 W/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3056-H KRYPTON (KR)	IIIB	457.9 TO 514.5	0.150	0.700	CIRC	300 MW		N/A	778 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENFRGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HUGHES AIRCRAFT 3062-H CARBON DIOXIDE (CO2)	IV	10600	1.63	3.00	CIRC	100 W TEM00		N/A	95.6 W/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3066H ARGON (AR)	IV	488.0 514.5	0.125	0.650	CIRC	1.00 W TEM00		N/A	2.59 W/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3070H HELIUM NEON (HENE)	IIIB	632.8		0.750		10.0 MW TEM00		N/A	25.9 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3070H-R HELIUM NEON (HENE)	IIIB	632.8	0.140	0.750	CIRC	10.0 MW TEM00		N/A	25.9 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3070-H HELIUM NEON (HENE)	IIIB	632.8	0.137	0.600	CIRC	10.0 MW TEM00		N/A	25.9 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3073-H HELIUM NEON (HENE)	IIIB	632.8	0.212	1.00	CIRC	25.0 MW TEM00		N/A	64.8 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3074H HELIUM NEON (HENE)	IIIB	632.8	1.00		CIRC	1.50 MW TEM00		N/A	3.81 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3075 H HELIUM NEON (HENE)	IIIB	632.8	0.200		CIRC	2.00 MW TEM00		N/A	5.18 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3076-H HELIUM NEON (HENE)	IIIB	632.8	0.126	0.750	CIRC	3.00 MW		N/A	7.78 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3076H-D HELIUM NEON (HENE)	IIIB	632.8	0.125	0.750	CIRC	3.00 MW TEM00		N/A	7.78 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3076H-E HELIUM NEON (HENE)	IIIB	632.8	0.125	0.750	CIRC	3.00 MW TEM00		N/A	7.78 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3076H-W HELIUM NEON (HENE)	IIIB	632.8	0.125	0.750	CIRC	3.00 MW TEM00		N/A	7.78 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3078H-D HELIUM NEON (HENE)	IIIB	632.8	0.110	0.800	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVFR- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HUGHES AIRCRAFT 3078-H HELIUM NEON (HENE)	IIIB	632.8	1.10	0.850	CIRC	1.00 MW TEM00		N/A	2.10 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3078H-E HELIUM NEON (HENE)	IIIB	632.8	0.110	0.800	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3078H-W HELIUM NEON (HENE)	IIIB	632.8	0.110	0.800	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3079H HELIUM NEON (HENE)	IIIB	632.8	0.125	0.750	CIRC	3.00 MW TEM00		N/A	7.78 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3079-H HELIUM NEON (HENE)	IIIB	632.8	0.088	0.750	CIRC	3.00 MW TEM00		N/A	7.78 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3093-H HELIUM NEON (HENE)	IIIB	632.8	1.10	0.850	CIRC	2.00 MW TEM00		N/A	4.20 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3094-H HELIUM NEON (HENE)	IIIB	632.8	0.950	1.00	CIRC	2.00 MW		N/A	5.18 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3121-H HELIUM NEON (HENE)	IIIB	632.8	0.063	1.30	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3121-HP HELIUM NEON (HENE)	IIIB	632.8	0.063	1.30	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3122-H HELIUM NEON (HENE)	IIIB	632.8	0.063	1.30	CIRC	2.00 MW TEM00		N/A	5.18 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3122-HP HELIUM NEON (HENE)	IIIB	632.8	0.063	1.30	CIRC	2.00 MW TEM00		N/A	5.18 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3124-H HELIUM NEON (HENE)	IIIB	632.8	0.081	1.00	CIRC	4.00 MW TEM00		N/A	10.4 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3125-H HELIUM NEON (HENE)	IIIB	632.8	0.081	1.00	CIRC	5.00 MW TEM00		N/A	13.0 MW/CM2	RESEARCH & OEM

MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
HUGHES AIRCRAFT 3124-HP HELIUM NEON (HENE)	IIIB	632.8	0.081	1.00	CIRC	4.00 MW TEM00	N/A		10.4 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3125-HP HELIUM NEON (HENE)	IIIB	632.8	0.051 0-081	1.20 1.00	CIRC CIRC	10.0 MW TEM00	N/A		25.9 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3135-H HELIUM NEON (HENE)	IIIB	632.8	0.137	0.600	CIRC	10.0 MW TEM00	N/A		25.9 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3170-H HELIUM NEON (HENE)	IIIB	632.8	0.137	0.600	CIRC	10.0 MW TEM00	N/A		25.9 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3176-H HELIUM NEON (HENE)	IIIB	632.8	0.120	0.850	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3178-H HELIUM NEON (HENE)	IIIB	632.8	0.110	0.850	CIRC	3.00 MW	N/A		7.78 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3180H HELIUM NEON (HENE)	IIIB	632.8	0.110	0.850	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3184H HELIUM NEON (HENE)	IIIB	632.8	0.125	0.750	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3193-H HELIUM NEON (HENE)	IIIB	632.8	0.126	0.750	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3221-H HELIUM NEON (HENE)	IIIB	632.8	0.063	1.30	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3221-HP HELIUM NEON (HENE)	IIIB	632.8	0.063	1.30	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3222-H HELIUM NEON (HENE)	IIIB	632.8	0.063	1.30	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 3222-HP HELIUM NEON (HENE)	IIIB	632.8	0.063	1.30	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- BEAM GENCE SHAPE (MRAD)	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS	
HUGHES AIRCRAFT 3224-H HELIUM NEON (HeNe)	IIIB	632.8	0.081	1.00 CIRC	4.00 MW TEM00	N/A	10.4 MW/CM2	RESEARCH & OEM	
HUGHES AIRCRAFT 3225-H HELIUM NEON (HeNe)	IIIB	632.8	0.081	1.00 CIRC	5.00 MW TEM00	N/A	13.0 MW/CM2	RESEARCH & OEM	
HUGHES AIRCRAFT 3224-HP HELIUM NEON (HeNe)	IIIB	632.8	0.081	1.00 CIRC	4.00 MW TEM00	N/A	10.4 MW/CM2	RESEARCH & OEM	
HUGHES AIRCRAFT 3225-HP HELIUM NEON (HeNe)	IIIB	632.8	0.081	1.00 CIRC	5.00 MW TEM00	N/A	13.0 MW/CM2	RESEARCH & OEM	
HUGHES AIRCRAFT 3598 HELIUM NEON (HeNe)		632.8				N/A		RESEARCH & OEM INSUFFICIENT INFORMATION	
HUGHES AIRCRAFT 5500-H RUBY	IV	694.3		5.00	8.00 J	15.0 P/M 0.500 MS 1.50	20.7 J/CM2	RESEARCH & OEM	
HUGHES AIRCRAFT 5503-H RUBY	IV	694.3		5.00	8.00 J	200 P/M	500 US	20.7 J/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 5510-H RUBY	IV	694.3		5.00	16.0 J	12.0 P/M	1.50 MS 6.00	41.5 J/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 5515-H RUBY	IV	694.3		5.00	50.0 J	12.0 P/M	4.00 MS 12.0	130 J/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 5516-H RUBY	IV	694.3		5.00	50.0 J	36.0 P/M		130 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
HUGHES AIRCRAFT 5520 HELIUM NEON (HeNe) DOUBLE PULSE	IV	694.3		5.00	50.0 J	12.0 P/M	4.00 MS	130 J/CM2	RESEARCH & OEM
HUGHES AIRCRAFT 5550-H KRYPTON (Kr)	IV	457.9	0.354	2.00 CIRC	35.0 W AVER	200 P/S	20.0 US	454 MJ/CM2	RESEARCH & OEM ALSO MODEL 5560-H AND 5561-H ND-YAG
HUGHES AIRCRAFT GARMENT CUTTER CARBON DIOXIDE (CO2)	IV	10600	0.570	1.70 CIRC	150 W	N/A		1.17 KW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
IBM CORPORATION 3666 (SCANNING) HE NE	II	ENCL 632.8				0.700 MW AVER			1.81 MW/CM2	POINT OF SALES CLASS I AS ENCLOSED PROVISIONAL -OSHA- CLASSIFICATION
IBM SD-11 GA-AS	IIIB	845.0	7.60	0.500	CIRC	2.00 W PEAK		200 NS	17.6 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
IBM 3800 HELIUM NEON (HENE)		ENCL 632.8					N/A			COMPUTER & STORAGE CLASS I AS ENCLOSED INSUFFICIENT INFORMATION
IMAGE OPTICS ROA-1000 RUBY Q-SWITCHED	IV	694.3	1.90	3.00	CIRC	12.0 J		15.0 NS	8.44 J/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
IMAGE OPTICS INC. UNK ND Q-SWITCH	IIIB	1060	1.00	0.750	CIRC	25.0 MJ 65.0		20.0 NS	63.5 MJ/CM2 165	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
IMPULPHYSIK NA RUBY	IV	694.3	0.200	0.600	CIRC	0.100 J	MULTI 0.330 P/S	20.0 NS	259 MJ/CM2	RESEARCH & OEM
IMPULPHYSIK NA RUBY	IV	694.3	0.200	0.600	CIRC	50.0 MJ	TEM00 0.330 P/S	20.0 NS	130 MJ/CM2	RESEARCH & OEM
IMPULPHYSIK NA RUBY	IV	694.3	1.00	2.00	CIRC	2.00 J	MULTI 0.330 P/S	20.0 NS	5.08 J/CM2	RESEARCH & OEM
IMPULPHYSIK NA RUBY	IV	694.3	1.00	2.00	CIRC	2.00 J	MULTI 2.00 P/S	20.0 NS	5.08 J/CM2	RESEARCH & OEM
IMPULPHYSIK NA RUBY	IV	694.3	1.00	2.00	CIRC	20.0 J	MULTI 0.330 P/S	1.00 MS	50.8 J/CM2	RESEARCH & OEM
IMPULPHYSIK NA RUBY	IV	694.3	1.00	2.00	CIRC	20.0 J	MULTI 1.00 P/S	1.00 MS	50.8 J/CM2	RESEARCH & OEM
IMPULPHYSIK NA RUBY	IV	694.3	1.00	5.00	CIRC	50.0 J	MULTI 0.170 P/S	1.00 MS 3.00	127 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
IMPULPHYSIK NA RUBY	IV	694.3	1.00	5.00	CIRC	50.0 J MULTI	0.500 P/S	1.00 MS 3.00	127 J/CM2	RESEARCH & OEM
INSTRUMENT TECHN. LE 101-105 HELIUM NEON (HENE)	IIIB	632.8	0.150	1.00	CIRC	10.0 MW TEM00 18.0 MW MULTI	N/A		25.9 MW/CM2 46.7	RESEARCH & OEM
INSTRUMENT TECHN. LE 107 HELIUM NEON (HENE)	IIIB	632.8	0.150	0.700	CIRC	50.0 MW TEM00 60.0 MW MULTI	N/A		130 MW/CM2 156	RESEARCH & OEM
INSTRUMENT TECHN. LE 200 HELIUM NEON (HENE)	IIIB	632.8	0.120	1.50	CIRC	1.00 MW TEM00 2.00 MW MULTI	N/A		2.59 MW/CM2 5.18	RESEARCH & OEM
INSTRUMENT TECHN. LE 350 HELIUM NEON (HENE)	IIIB	632.8	0.150	0.800	CIRC	40.0 MW TEM00 50.0 MW MULTI	N/A		104 MW/CM2 130	RESEARCH & OEM
INSTRUMENT TECHN. LE20013 HELIUM NEON (HENE)	IIIB	632.8	0.120	1.50	CIRC	0.500 MW TEM00 1.00 MW MULTI	N/A		1.30 MW/CM2 2.59	RESEARCH & OEM
INTERNAT.LASER.SYS ML-1 MICRODRILLER NEODYMIUM YAG (ND YAG)	IV	1064				200 MJ	1.00 TD 60.0 P/S	40.0 US	518 MJ/CM2	MAT. PROCESSING
INTERNAT.LASER.SYS NW-5J NEODYMIUM GLASS	IV	1060		15.0 30.0		5.00 J	0.500 P/S	2.00 MS	13.0 J/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS NC-10/80 NEODYMIUM YAG (ND YAG)	IV	1064	0.354	10.0	CIRC	20.0 MJ	5.00 P/S 10.0 20.0	17.0 NS	51.8 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS NC-10/80 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	10.0	CIRC	20.0 MJ	1.00 P/S 10.0	20.0 NS	51.8 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS NC-10/80 NEODYMIUM YAG (ND YAG)	IV	1064	(.1)	5.00		1.00MGW PEAK 0.020 J	20.0 P/S	20.0 NS	51.8 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
INTERNAT.LASER.SYS NW-15J NEODYMIUM GLASS	IIIB	1060	(.1)			8.00 KW PEAK	30.0 P/M 1200	150 NS 2.00 MS 10.0	3.11 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
INTERNAT.LASER.SYS NW-15J NEODYMIUM GLASS	IV	1060				6.00 KW PEAK 15.0 J	30.0 P/M 1200	150 NS 2.00 MS 10.0	2.33 MJ/CM2 38.9 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
INTERNAT.LASER.SYS III B GM-25 HELIUM CADMIUM (HECO)		441.8				25.0 MW TEMO		N/A	64.8 MW/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS IV NT-50 NEODYMIUM YAG (ND YAG)		1064	0.350	0.800	CIRC	120 MJ	1.00 P/S 5.00 10.0	20.0 NS	311 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS IV TWL-50 NEODYMIUM YAG (ND YAG)		1064	(.1)	0.500		2.50MGW PEAK	10.0 -P/S	20.0 NS	130 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
INTERNAT.LASER.SYS IV NT 50/20 NEODYMIUM YAG (ND YAG)		1064	3.20	0.800	CIRCO	100 J 6.00MGW PEAK	20.0 P/S	17.0 NS	24.8 MJ/CM2 25.3	RESEARCH & OEM
INTERNAT.LASER.SYS IV NT-50/50 NEODYMIUM YAG (ND YAG)		1064		2.50		6.70MGW PEAK	50.0 P/S	15.0 NS	260 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS IV NT-50,20HB NEODYMIUM YAG (ND YAG)		1064		0.050		6.00MGW PEAK	20.0 P/S	17.0 NS	264 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS IV NR-100 NEODYMIUM YAG (ND YAG)		1064		0.040		11.0MGW PEAK 0.190 J	10.0 P/S	17.0 NS	485 MJ/CM2 492	RESEARCH & OEM
INTERNAT.LASER.SYS IV NT-100 NEODYMIUM YAG (ND YAG)		1064	0.350	0.800	CIRC	200 MJ	1.00 P/S 5.00 10.0	20.0 NS	518 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS IV PL-100 GA-AS		905.0		3.00		4.00 W AVER	10.0 P/S 100 KHZ	14.0 NS	1.04 J/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS IV NT-100P NEODYMIUM YAG (ND YAG)		1064		0.500		0.150 J	10.0 P/S	17.0 NS	389 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS IV TWL-100 NEODYMIUM YAG (ND YAG)		1064		0.500		3.80MGW PEAK 0.075 J	10.0 P/S	20.0 NS	197 MJ/CM2 194	RESEARCH & OEM
INTERNAT.LASER.SYS IV LWR-100A NEODYMIUM YAG (ND YAG)		1064		0.500		0.175 J	10.0 P/S	17.0 NS	454 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS IV PL-101 GA-AS		905.0		3.00		4.00 W AVER	10.0 P/S 100 KHZ	14.0 NS	1.04 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
INTERNAT.LASER.SYS HL-101 ND-YAG DOUBLED	IV	532.0	(.1)	2.00		20.0 MJ TEM00	1.00 TO 5.00 P/S	15.0 NS 20.0	51.8 MJ/CM2	HOLOGRAPHY PROVISIONAL -OSHA- CLASSIFICATION
INTERNAT.LASER.SYS LL-101-S NEODYMIUM YAG (ND YAG)	IV	1064	(.1)			300 MJ	1.00 P/S	150 US	778 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
INTERNAT.LASER.SYS LL-101-10 NEODYMIUM YAG (ND YAG)	IV	1064	(.1)			300 MJ	1.00 TO 10.0 P/S	150 US	778 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
INTERNAT.LASER.SYS LL-101-20 NEODYMIUM YAG (ND YAG)	IV	1064	(.1)			100 MJ	1.00 TO 20.0 P/S	150 US	259 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
INTERNAT.LASER.SYS LL-101-HR NEODYMIUM YAG (ND YAG)	IV	1064	(.1)			80.0 MJ	1.00 TO 100 P/S	150 US	207 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
INTERNAT.LASER.SYS LL-102-10 ND-YAG Q-SWITCH	IV	1064	(.1)			100 MJ	1.00 TO 10.0 P/S	17.0 NS	259 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
INTERNAT.LASER.SYS LL-102-20 ND-YAG Q-SWITCH	IV	1064	(.1)			100 MJ	1.00 TO 20.0 P/S	17.0 NS	259 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
INTERNAT.LASER.SYS LL-102-HR ND-YAG Q SWITCH	IV	1064	(.1)			80.0 MJ	1.00 TO 100 P/S	17.0 NS	207 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
INTERNAT.LASER.SYS LL-103-10 NEODYMIUM YAG (ND YAG)	IV	1064	(.1)			350 MJ	1.00 TO 10.0 P/S	17.0 NS	907 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
INTERNAT.LASER.SYS LL-103-20 NEODYMIUM YAG (ND YAG)	IV	1064	(.1)			350 MJ	1.00 TO 20.0 P/S	17.0 NS	907 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
INTERNAT.LASER.SYS LL-103-HR NEODYMIUM YAG (ND YAG)	IV	1064	(.1)			100 MJ	1.00 TO 100 P/S	17.0 NS	259 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
INTERNAT.LASER.SYS HL-104 ND-YAG DOUBLED	IV	532.0	(.1)	2.00		10.0 MJ MULTI	1.00 TO 5.00 P/S 10.0	10.0 NS 15.0	25.9 MJ/CM2	HOLOGRAPHY PROVISIONAL -OSHA- CLASSIFICATION
INTERNAT.LASER.SYS LL-104-10 NEODYMIUM YAG (ND YAG)	IV	1064				700 MJ	1.00 TO 10.0 P/S	17.0 NS	1.81 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
INTERNAT.LASER.SYS LL-104-20 NEODYMIUM YAG (ND YAG)	IV	1064				700 MJ	1.00 TO 20.0 P/S	17.0 NS	1.81 J/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS LL-105-10 NEODYMIUM YAG (ND YAG)	IV	1064				1.20 J	1.00 TO 10.0 P/S	17.0 NS	3.11 J/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS LL-105-20 NEODYMIUM YAG (ND YAG)	IV	1064				1.20 J	1.00 TO 20.0 P/S	17.0 NS	3.11 J/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS NT-110 SERIES NEODYMIUM YAG (ND YAG)	IV	1064	3.30	1.00	CIRC	10.0MGW PEAK 150 MJ	20.0 P/S	17.0 NS	39.6 MJ/CM2 35.0	RESEARCH & OEM
INTERNAT.LASER.SYS NT-111 ND-YAG Q-SWITCH	IV	1064		1.00		150 MJ	1.00 P/S 5.00 10.0	17.0 NS	389 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS NT-112 ND-YAG Q-SWITCH	IV	1064		1.00		150 MJ	1.00 P/S 5.00 10.0	15.0 NS	389 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS NT-113 ND-YAG Q-SWITCH	IV	1064		1.00		100 MJ	1.00 P/S 10.0 20.0	17.0 NS	259 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS NT-114 ND-YAG Q-SWITCH	IV	1064		1.00		100 MJ	1.00 P/S 10.0 20.0	15.0 NS	259 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS NT-130 SERIES NEODYMIUM YAG (ND YAG)	IV	1064	3.30	1.20	CIRC	10.0MGW PEAK 150 MJ	30.0 P/S	17.0 NS	39.6 MJ/CM2 35.0	RESEARCH & OEM
INTERNAT.LASER.SYS NT-131 NEODYMIUM YAG (ND YAG)	IV	1064		1.20		150 MJ	30.0 P/S	17.0 NS	389 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS NT-132 NEODYMIUM YAG (ND YAG)	IV	1064		1.20		125 MJ	30.0 P/S	15.0 NS	324 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS NT-150 SERIES NEODYMIUM YAG (ND YAG)	IV	1064	5.40	0.150	CIRC	10.0MGW PEAK 150 MJ	20.0 P/S	17.0 NS	4.89 MJ/CM2 4.31	RESEARCH & OEM
INTERNAT.LASER.SYS NT-151 NEODYMIUM YAG (ND YAG)	IV	1064		0.250		150 MJ	10.0 P/S	17.0 NS	389 MJ/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
INTERNAT.LASER.SYS NT-152 NEODYMIUM YAG (ND YAG)	IV	1064		0.250		125 MJ	10.0 P/S	15.0 NS	324 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS NT-153 NEODYMIUM YAG (ND YAG)	IV	1064		0.250		100 MJ	20.0 P/S	17.0 NS	259 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS NT-154 NEODYMIUM YAG (ND YAG)	IV	1064		0.250		100 MJ	20.0 P/S	15.0 NS	259 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS NT-170 SERIES NEODYMIUM YAG (ND YAG)	IV	1064	5.40	0.200	CIRC	10.0MGW PEAK 150 MJ	30.0 P/S	17.0 NS	4.89 MJ/CM2 4.31	RESEARCH & OEM
INTERNAT.LASER.SYS NT-171 NEODYMIUM YAG (ND YAG)	IV	1064		0.300		150 MJ	30.0 P/S	17.0 NS	389 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS NT-172 NEODYMIUM YAG (ND YAG)	IV	1064		0.300		125 MJ	5.00 P/S 10.0 20.0	15.0 NS	324 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS NR-200 NEODYMIUM YAG (ND YAG)	IV	1064		0.500		8.70MGW PEAK	30.0 P/S	20.0 NS	451 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS ND-200 NEODYMIUM YAG (ND YAG)	IV	1064	2.50	0.500	CIRC	200 MJ	10.0 P/S 20.0	100 US	81.3 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS NT-200P NEODYMIUM YAG (ND YAG)	IV	1064		0.500		3.00MGW PEAK	30.0 P/S	17.0 NS	132 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS NR-214 NEODYMIUM YAG (ND YAG)	IV	1064		1.00		125 MJ	1.00 P/S 5.00 10.0	17.0 NS	324 MJ/CM2	RESEARCH & OEM ALSO 20PPS AND SIN -6LE SHOT
INTERNAT.LASER.SYS NT-250 ND-YAG DOUBLED	IV	532.0	0.400	4.00	CIRC	30.0 MJ 25.0	10.0 P/S 25.0	15.0 NS	77.8 MJ/CM2 64.8	RESEARCH & OEM
INTERNAT.LASER.SYS NT-252 ND-YAG DOUBLED	IV	532.0	0.400	4.00	CIRC	50.0 MJ	1.00 P/S 5.00 10.0 --S	15.0 NS	130 MJ/CM2	RESEARCH & OEM
INTERNAT.LASER.SYS NT-254 ND-YAG DOUBLED	IV	532.0	0.400	4.00	CIRC	25.0 MJ	1.00 TD 20.0 P/S	15.0 NS	64.8 MJ/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
INTERNAT.LASER SYS NT-270 NEODYMIUM YAG (ND YAG)	IV	532.0	0.610	4.00	CIRC	30.0 MJ	20.0 P/S	15.0 NS	77.8 MJ/CM2	RESEARCH & DEM
INTERNAT.LASER SYS NT-272 NEODYMIUM YAG (ND YAG)	IV	532.0	0.610	4.00	CIRC	50.0 MJ	20.0 P/S	15.0 NS	130 MJ/CM2	RESEARCH & DEM
INTERNAT.LASER.SYS NT-500 NEODYMIUM YAG (ND YAG)	IV	1064		0.500		30.0MGW PEAK 0.500 J	10.0 P/S	17.0 NS	1.32 J/CM2 1.30	RESEARCH & DEM
INTERNAT.LASER.SYS NT-500HB NEODYMIUM YAG (ND YAG)	IV	1064	0.025	0.050	CIRC	30.0MGW PEAK 0.500 J	10.0 P/S	17.0 NS	1.32 J/CM2 1.30	RESEARCH & DEM
INTERNAT.LASER.SYS NT-572 NEODYMIUM YAG (ND YAG)	IV	1064	7.62	0.250	CIRC	500 MJ	1.00 P/S 5.00 10.0	15.0 NS	21.9 MJ/CM2	RESEARCH & DEM
INTERNAT.LASER.SYS NT-574 NEODYMIUM YAG (ND YAG)	IV	1064	7.62	0.250	CIRC	500 MJ	5.00 P/S 10.0 20.0	15.0 NS	21.9 MJ/CM2	RESEARCH & DEM
INTERNAT.LASER.SYS III B 600 HELIUM NEON (HENE)	III B	632.8	0.500	2.00	CIRC	1.00 MW MULTI	N/A		2.59 MW/CM2	RESEARCH & DEM
INTERNAT.LASER.SYS NT-672 ND-YAG DOUBLED	IV	532.0	0.640	4.00	CIRC	150 MJ	1.00 P/S 5.00 10.0	15.0 NS	389 MJ/CM2	RESEARCH & DEM
INTERNAT.LASER.SYS NT-674 ND-YAG DOUBLED	IV	532.0	0.640	4.00	CIRC	150 MJ	20.0 P/S	15.0 NS	389 MJ/CM2	RESEARCH & DEM
INTERNAT.LASER.SYS NT-1000 NEODYMIUM YAG (ND YAG)	IV	1064	0.800 1.60	5.00	RECT	1.00 J	1.00 P/S 15.0	20.0 NS	781 MJ/CM2	RESEARCH & DEM
INTERNAT.LASER.SYS PL-1000 GA-AS	IV	905.0		3.00		1.00 W AVER	0.100 TO 1.00 MHZ	12.0 NS	2.59 J/CM2 2.59 UJ/CM2	RESEARCH & DEM
INTERNAT.LASER.SYS PL-1001 GA-AS	IV	905.0		3.00		1.00 W AVER	0.100 TO 1.00 MHZ	12.0 NS	2.59 J/CM2 2.59 UJ/CM2	RESEARCH & DEM
INTERNAT.LASER.SYS NT-1500 NEODYMIUM YAG (ND YAG)	IV	1064	6.00	0.800 30.0	CIRC	1.50 J	1.00 P/S 30.0	20.0 NS	106 MJ/CM2	RESEARCH & DEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- (CM)	DIVER- BEAM SHAPE (MRAD)	OUTPUT POWER/ENERGY	FULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
INTERNAT-LASER.SYS NT-1500/50 NEODYMIUM YAG (ND YAG)	IV	1064		0.250	80.0MGW PEAK 0.600 J 1.20	30.0 P/S 60.0	17.0 NS	3.52 J/CM <sup>2</sup> 1.56 3.11	RESEARCH & OEM
INTERNAT.RES.DEVEL MK-3 RUBY	IV	694.3	0.010 0.600	5.00 CIRC 10.0 CIRC	1.00 KW PEAK 2.00 2.00 J	0.100 P/S	1500 US	3.89 J/CM <sup>2</sup> 7.78 5.18	RESEARCH & OEM
INTERNAT.RES.DEVEL MK-3 RUBY	IV	694.3	0.900	5.00 CIRC	1.00 J 2.00	1000 P/S	0.020 US	2.59 J/CM <sup>2</sup> 5.18	RESEARCH & OEM
INTERNAT.RES.DEVEL MK-3 RUBY	IV	694.3	0.010 0.600	5.00 CIRC CIRC	10.0 KW PEAK 5.00 J	1.00 P/S	500 US 4000	104 J/CM <sup>2</sup> 13.0	RESEARCH & OEM
INTERNAT.RES.DEVEL INTERNATIONAL GS8 HE-NE	IIIB	632.8	0.120	1.00 CIRC	30.0 MW MULTI 1.50 MW TEM00	N/A		77.8 MW/CM <sup>2</sup> 3.89	RESEARCH & OEM
INTERNAT-LASER.SYS G-9 HELIUM NEON (HENE)	IIIB	632.8			70.0 MW TEM00	N/A		181 MW/CM <sup>2</sup>	RESEARCH & OEM
INTERNAT-LASER.SYS G 30 HELIUM NEON (HENE)	IIIB	632.8	0.500	2.00 CIRC	30.0 MW MULTI	N/A		77.8 MW/CM <sup>2</sup>	RESEARCH & OEM
INTRATEK I-600 GA-AS	IIIB	904.0	2.00	1.10 CIRC	0.400 MJ	100 TO 150 P/S	0.200 US	254 UJ/CM <sup>2</sup>	RESEARCH & OEM
ISKRA PL-5A HELIUM NEON (HENE)	IIIB	632.8 1160	0.100	0.500 CIRC	25.0 MW TEM00	N/A		64.8 MW/CM <sup>2</sup>	RESEARCH & OEM
ISKRA PL-6 HELIUM NEON (HENE)	IIIB	632.8	0.300	0.500 CIRC	1.00 MW TEM00	N/A		2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
ISKRA PL-7A HELIUM NEON (HENE)	IIIB	632.8 1160	0.080	1.00 CIRC	5.00 MW TEM00	N/A		13.0 MW/CM <sup>2</sup>	RESEARCH & OEM
ISRAEL ELECT-OPTIC 7-A CARBON DIOXIDE (CO2)	IV	10600		5.00	12.5 W MULTI	N/A		1.59 KW/CM <sup>2</sup>	RESEARCH & OEM
ISRAEL ELECT-OPTIC 7B CARBON DIOXIDE (CO2)	IV	10600		5.00	30.0 W MULTI	N/A		3.81 KW/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
ISRAEL ELECT-OPTIC 7C CARBON DIOXIDE (CO2)	IV	10600		5.00		50.0 W MULTI			6.35 KW/CM2	RESEARCH & OEM
							N/A			
ISRAEL ELECT-OPTIC 7-D CARBON DIOXIDE (CO2)	IV	10600		5.00		65.0 W MULTI			8.25 KW/CM2	RESEARCH & OEM
							N/A			
ISRAEL ELECT-OPTIC R-35 CARBON DIOXIDE (CO2)	IV	10600	2.50	4.00	CIRC	2.00 W AVER	1.00 P/S	0.100 MS	813 MJ/CM2	RESEARCH & OEM
ISRAEL ELECT-OPTIC RC-35 CO2&HI	IIIB	2800 TO 5000	2.50	4.00	CIRC	5.00 MW AVER	3.00 P/S	1.00 MS	677 UJ/CM2	RESEARCH & OEM
ISRAEL ELECT-OPTIC RT-35 CARBON DIOXIDE (CO2)	IV	9400 TO 10800	2.50	4.00	CIRC	1.00 W AVER	1.00 P/S	0.100 MS	406 MJ/CM2	RESEARCH & OEM
ISRAEL ELECT-OPTIC 5194/8C CARBON DIOXIDE (CO2)	IV	1060	2.00	6.00	CIRC	50.0 W MULTI			31.7 W/CM2	RESEARCH & OEM
							N/A			
ISRAEL ELECT-OPTIC 5195/5A CARBON DIOXIDE (CO2)	IV	1060	0.300	4.00	CIRC	5.00 W TEM00			13.0 W/CM2	MEDICAL
							N/A			
ITT INDUSTRIAL 1LS1 GAAS	IIIB	847.0	(.1)			100 W PEAK	1000 TO 100 P/S	1.00 US	259 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
JARRELL-ASH YS-604 NEODYMIUM YAG (ND YAG)	IV	1064	0.500		CIRC	0.600 J		5.00 MS	1.56 J/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
JARRELL ASH MARK I RUBY	IV	694.3	0.100		CIRC	1.00 J			2.59 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
JARRELL ASH MARK II MICROPROBE ND	IV	1060	0.005		CIRC	1.00 J		1.50 US	2.59 J/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
JARRELL ASH 45-606 RUBY	IV	694.3				0.600 J		0.500 MS	1.56 J/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
JK LASER 2000 SYSTEM RUBY OR NDGLASS	IV	694.3 1064				1.00 W AVER 50.0 W MULTI	1.00 TO 100 P/S	0.010 US 10000	2.59 J/CM2 130	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENC (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
JODON HN-1 HELIUM NEON (HENE)	IIIB	632.8	0.080	1.00	CIRC	1.00 MW TEM00			2.59 MW/CM <sup>2</sup>	EDUCATION
JODON HN-1S HELIUM NEON (HENE)	IIIB	632.8	0.080	1.00	CIRC	1.00 MW TEM00			2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
JODON HS-1 HELIUM NEON (HENE)	IIIB	632.8				10.0 MW			25.9 MW/CM <sup>2</sup>	HOLOGRAPHY
JODON HN-2 HELIUM NEON (HENE)	IIIB	632.8	0.080	1.00	CIRC	2.00 MW TEM00			5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
JODON HN-2S HELIUM NEON (HENE)	IIIB	632.8	0.080	1.00	CIRC	2.00 MW TEM00			5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
JODON HN-05 HELIUM NEON (HENE)	II	632.8	0.080	1.00	CIRC	0.500 MW TEM00			1.30 MW/CM <sup>2</sup>	RESEARCH & OEM
JODON HN-05S HELIUM NEON (HENE)	II	632.8	0.080	1.00	CIRC	0.500 MW TEM00			1.30 MW/CM <sup>2</sup>	RESEARCH & OEM
JODON HN-5 HELIUM NEON (HENE)	II	632.8	0.080	1.00	CIRC	0.500 MW TEM00			1.30 MW/CM <sup>2</sup>	SCIENTIFIC INSTR.
JODON LL-5 HELIUM NEON (HENE)	IIIB	632.8	0.080	1.00	CIRC	2.00 MW TEM00			5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
JODON HN-7 HELIUM NEON (HENE)	IIIB	632.8	0.130	1.00	CIRC	7.00 MW TEM00			18.1 MW/CM <sup>2</sup>	RESEARCH & OEM
JODON HN-10 HELIUM NEON (HENE)	IIIB	632.8	0.130	1.00	CIRC	15.0 MW TEM00			38.9 MW/CM <sup>2</sup>	RESEARCH & OEM
JODON LT-10 HELIUM NEON (HENE)	II	632.8	0.080	1.00	CIRC	0.500 MW TEM00			1.30 MW/CM <sup>2</sup>	RESEARCH & OEM
JODON HN-15 HELIUM NEON (HENE)	IIIB	632.8 611.8 3391	0.170	1.00	CIRC	15.0 MW TEM00			1.32 W/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENC (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
JODON HN-20 HELIUM NEON (HENE)	IIIB	632.8 611.8 3391	0.170	1.00	CIRC	20.0 MW TEM00			1.76 W/CM2	RESEARCH & DEM
JODON HN-50 HELIUM NEON (HENE)	IIIB	632.8 611.8 3391	0.200	0.700	CIRC	50.0 MW AVER			3.17 W/CM2	RESEARCH & DEM
JODON HN-1576 HELIUM NEON (HENE)	IIIB	632.8	0.150	0.900	CIRC	15.0 MW TEM00			38.9 MW/CM2	RESEARCH & DEM
JODON HN-6210 HELIUM NEON (HENE)	IIIB	632.8	0.080	1.00	CIRC	2.50 MW TEM00			6.48 MW/CM2	RESEARCH & DEM
KEUFFEL-ESSER MICRORANGER 6A-AS	IIIB	915.0	2.80	4.00	CIRC	210 MW AVER	15.0 TO 135 MHZ	30.0 NS	34.0 MJ/CM2	DIST. METER
KEUFFEL-ESSER 740130-ALIGNMENT HELIUM NEON (HENE)	IIIB	632.8	4.01		CIRC	2.50 MW			395 UW/CM2	RESEARCH & DEM
KEUFFEL-ESSER 712600-ALIGNMENT HELIUM NEON (HENE)	II	632.8	0.950		CIRC	0.700 MW TEM00			1.81 MW/CM2	RESEARCH & DEM
KEUFFEL-ESSER 712605-ALIGNMENT HELIUM NEON (HENE)	II	632.8	1.11		CIRC	0.700 MW TEM00			1.44 MW/CM2	RESEARCH & DEM
ALSO SEE LASER SYSTEMS AND ELECTRONICS (LS&E)										
KLINGER 500 HELIUM NEON (HENE)	IIIB	632.8	0.250		CIRC	1.50 MW			3.89 MW/CM2	EDUCATION
KORAD KMV MICROVAPORIZER NEODYMIUM GLASS	IV	1060	0.020		CIRC	0.300 J 1.00	1.00 P/S		778 MW/CM2 2.59 W/CM2	RESEARCH & DEM PROVISIONAL -OSHA- CLASSIFICATION
KORAD KRT-MICROMACHINING NEODYMIUM YAG (ND YAG)	IV	1064	(.1)			0.500 W AVER	800 TO 1200 P/S	25.0 NS	1.30 J/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
KORAD KWD RUBY	IV	694.3	0.950		CIRC	5.00 J		3.00 MS	13.0 J/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAO)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
KORAD K-6A ARGON ION	IIIB	457.9 TO 514.5	0.200	1.00	CIRC	3.00 MW AVER 1.00 MW 0.700	60.0 P/S	60.0 US	130 UJ/CM2 43.2 30.2	MAT. PROCESSING
KORAD K-MV CARBON DIOXIDE (CO2)	IV	10600	0.000		CIRC	1.00 J 10.0 MW PEAK	1.00 TO 4.00 P/M	100 US 15.0 NS	127 J/CM2 127 UJ/CM2	SCIENTIFIC INSTR. FOCUSED BEAM SPOT SIZE=30 TO 200 UM
KORAD K-L LASERRETTE RUBY OR ND	IV	1060 694.3	0.600 0.600	4.00 3.00	CIRC CIRC	1.00 J	1.00 P/M	150 US 200	2.59 J/CM2	RESEARCH & OEM
KORAD K-1 RUBY/ND GLASS	IV	694.3 1060		2.00 10.0		25.0 J 1.00		500 US 10.0 NS	64.8 J/CM2 2.59	SCIENTIFIC INSTR. PROVISIONAL -OSHA- CLASSIFICATION
KORAD K-HD1, MODIFIED K-1 RUBY	IV	694.3	0.003		CIRC	1.00 TO 12.0 J	5.00 TO 60.0 P/M		2.59 W/CM2 31.1	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
KORAD KIPTH RUBY	IV	694.3	0.900	3.00	CIRC	0.400 J 125MGW PEAK	4.00 P/M	3.00 NS 5.00	1.04 J/CM2 1.62	SCIENTIFIC INSTR.
KORAD KIPTMH RUBY	IV	694.3	(.1)			15.0 MJ	2.00 P/M	3.00 NS 5.00	38.9 MJ/CM2	SCIENTIFIC INSTR. PROVISIONAL -OSHA- CLASSIFICATION
KORAD K1Q RUBY/ ND GLASS	IV	694.3 1060	1.50 1.20	3.00 4.00	CIRC CIRC	1.00 J 100MGW PEAK 2.50 J 125MGW PEAK	4.00 P/M 2.00	10.0 NS 20.0 15.0 25.0	1.13 J/CM2 3.53 4.41 5.51	SCIENTIFIC INSTR.
KORAD K1QDH RUBY	IV	694.3	1.00	10.0	CIRC	1.00 J 20.0 J	MULTI TEM00	1.00 P/M 20.0 NS 30.0	2.54 J/CM2 50.8	SCIENTIFIC INSTR.
KORAD K1QDPH RUBY	IV	694.3	1.00	10.0	CIRC	2.00 J 40.0 J	MULTI TEM00	1.00 P/M 20.0 NS 30.0	5.08 J/CM2 102	SCIENTIFIC INSTR.
KORAD K1QH RUBY	IV	694.3	1.00	10.0	CIRC	0.250 J 5.00 J	MULTI TEM00	2.00 P/M 50.0 NS	635 MJ/CM2 12.7 J/CM2	SCIENTIFIC INSTR.
KORAD K1QP RUBY	IV	694.3	0.800	10.0	CIRC	0.750 J 20.0 J	MULTI TEM00	1.00 P/M 20.0 NS	1.94 J/CM2 51.8	SCIENTIFIC INSTR.
KORAD K1QPH RUBY	IV	694.3	0.800	10.0	CIRC	1.00 J 25.0 J	MULTI TEM00	1.00 P/M 10.0 NS 20.0	2.59 J/CM2 64.8	SCIENTIFIC INSTR.

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
KORAD K-Y1 NEODYMIUM YAG (ND YAG)	IV	1064	0.300	2.50	CIRC	2.00 TO 3.00 W			5.18 W/CM2 7.7R	RESEARCH & OEM
KORAD KY2 NEODYMIUM YAG (ND YAG)	IV	1064	2.50	4.00	CIRC	6.00MGW			2.44 MGW/CM2	SCIENTIFIC INSTR.
KORAD KY2C NEODYMIUM YAG (ND YAG)	IV	1064	3.00	20.0	CIRC	12.0MGW			3.39 MGW/CM2	SCIENTIFIC INSTR.
KORAD KY2Q NEODYMIUM YAG (ND YAG)	IV	1064	0.200	1.50	CIRC	5.00 W AVER	1.00 TO 100 P/S	200 NS	13.0 J/CM2	RESEARCH & OEM
KORAD K-2 RUBY/ND GLASS	IV	694.3 1060		2.50 5.00		35.0 TO 150 J	1.00 P/M	500 US	90.7 J/CM2 389	RESEARCH & OEM
KORAD K2Q RUBY	IV	694.3	1.80	6.00	CIRC	7.50 J 500MGW PEAK	2.00 P/M	15.0 NS 20.0	5.88 J/CM2 7.84	MAT. PROCESSING
KORAD K-G3 CARBON DIOXIDE (CO2)	IV	10600	1.50	2.00	CIRC	1.00 TO 75.0 W			1.13 W/CM2 84.6	HOLOGRAPHY
KORAD KSS3 SCRIBING SYST NEODYMIUM YAG (ND YAG)	ENCL	1064							N/A	SCIENTIFIC INSTR. CLASS I AS ENCLOSED INSUFFICIENT INFORMATION
KORAD K-G4 CARBON DIOXIDE (CO2)	IV	10600	2.90	1.00	CIRC	1.00 TO 200 W			302 MW/CM2 60.4 W/CM2	MAT. PROCESSING
KORAD K-5Q RUBY/ ND GLASS	IV	694.3 1060	1.80	5.00	CIRC	5.00 J 350MGW PEAK	2.00 P/M	15.0 NS 25.0	3.92 J/CM2 6.86	RESEARCH & OEM
KORAD KY5 NEODYMIUM YAG (ND YAG)	IV	1064	6.00	15.0	CIRC	200MGW			14.1 MGW/CM2	RESEARCH & OEM
KORAD K-6Q RUBY	IV	694.3	1.20	5.00	CIRC	3.50 J 250MGW PEAK	2.00 P/M	10.0 NS 20.0	6.17 J/CM2 8.82	RESEARCH & OEM
KORAD K6QH RUBY	IV	694.3				2.00 J MULTI 100 MJ TFM00	2.00 P/M	20.0 NS	5.18 J/CM2 259 MJ/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (M RAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
KORAD K-15 RUBY/ND GLASS	IV	694.3 1060				20.0 W AVER	100 P/S		51.8 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
KORAD K15Q RUBY/ ND GLASS	IV	694.3 1060	1.20	5.00	CIRCO	0.700 J 75.8MGW PEAK 2.00 J 100MGW PEAK	60.0 P/M 20.0	10.0 NS 25.0 15.0 30.0	1.23 J/CM2 3.31 3.53 5.29	RESEARCH & OEM
KORAD K15QH RUBY	IV	694.3	(.1)			0.500 J MULTI 20.0 MJ TEM00	60.0 P/M	20.0 NS 30.0	1.30 J/CM2 51.8 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
KORAD K-62 CARBON DIOXIDE (CO2)	IV	10600	0.900	2.00	CIRC	800 W PEAK	2000 P/S	1.00 US 10.0	25.1 MJ/CM2	RESEARCH & OEM
KORAD RL-75 RUBY	IV	694.3	1.00		CIRC	20.0 J		3.00 MS	50.8 J/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
KORAD K100QP NEODYMIUM GLASS	IV	1060	0.300	1.00	CIRC	20.0 MJ 10.0MGW PEAK	1.00 P/M	1.00 NS	51.8 MJ/CM2 25.9	RESEARCH & OEM
KORAD K-Y100 NEODYMIUM YAG (ND YAG)	IV	1064				175 W	N/A		454 W/CM2	RESEARCH & OEM
KORAD K-6415 CARBON DIOXIDE (CO2)	IV	10600	2.90	1.00	CIRC	1.00 TO 160 W	N/A		302 MW/CM2 48.3 W/CM2	RESEARCH & OEM
KORAD K1000PTMH RUBY	IV	694.3				2.00 J MULTI 100 MJ TEM00	1.00 P/M	3.00 NS 5.00	5.18 J/CM2 259 MJ/CM2	HOLOGRAPHY
KORAD K1000PTMM RUBY	IV	694.3	1.50		CIRCO	0.100 J TEM00 20.0MGW PEAK	1.00 P/M	3.00 NS 5.00	113 MJ/CM2	HOLOGRAPHY
KORAD K1000QH RUBY	IV	694.3				4.00 J MULTI 200 MJ TEM00	1.00 P/M	30.0 NS	10.4 J/CM2 518 MJ/CM2	HOLOGRAPHY
KORAD K1000QDH RUBY	IV	694.3				2.00 J MULTI 100 MJ TEM00	1.00 P/M	30.0 NS	5.18 J/CM2 259 MJ/CM2	HOLOGRAPHY
KORAD K1001 RUBY	IV	694.3				500MGW PEAK	1.00 P/M	10.0 NS	13.0 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
KORAD K1100 RUBY	IV	694.3	1.80	1.30	CIRC	5.00 J 500MGW PEAK	2.00 P/M	10.0 NS 20.0	3.92 J/CM2 7.84	RESEARCH & OEM
KORAD K1100PTM RUBY	IV	694.3	1.80	1.30	CIRC	1.50 J 400MGW PEAK	2.00 P/M	3.00 NS 5.00	1.18 J/CM2 1.57	HOLOGRAPHY
KORAD K1200DPH RUBY	IV	694.3				5.00 J MULTI		30.0 NS	13.0 J/CM2	HOLOGRAPHY PROVISIONAL -OSHA- CLASSIFICATION
KORAD K1200PTMH RUBY	IV	694.3	(.1)			300 MJ	2.00 P/M	3.00 NS 5.00	778 MJ/CM2	HOLOGRAPHY PROVISIONAL -OSHA- CLASSIFICATION
KORAD K1200QH RUBY	IV	694.3				10.0 J TEM00	1.00 P/M	15.0 NS 30.0	25.9 J/CM2	HOLOGRAPHY
KORAD K1200QDH RUBY	IV	694.3				3.00 J MULTI 0.500 J TEM00	2.00 P/M	30.0 NS	7.78 J/CM2 1.30	HOLOGRAPHY
KORAD K1500 RUBY	IV	694.3	1.80	1.20	CIRC	10.0 TO 15.0 J 1.10 GW PEAK	1.00 P/M	10.0 NS 15.0	7.84 J/CM2 11.8 12.9	MAT. PROCESSING
KORAD K-1600 RUBY	IV	694.3	1.90 1.76	2.60 1.40	L CIRC	1.10 GW PEAK 5.00 J	1.00 P/M	5.00 NS	2.25 J/CM2 2.05	MAT. PROCESSING
KORAD K2500 RUBY	IV	694.3	1.80	0.900	CIRC	15.0 J 1.50 GW PEAK	20.0 P/M	15.0 NS 20.0	11.8 J/CM2 23.5	RESEARCH & OEM
KORAD K2600PTM RUBY	IV	694.3	1.80	0.900	CIRC	6.00 J 2.00 GW PEAK	20.0 P/M	3.00 NS 5.00	4.70 J/CM2 7.84	RESEARCH & OEM
KORAD LWM-1 RUBY	IV	694.3	0.050		CIRC	5.00 J	30.0 P/M	2.50 MS	13.0 J/CM2	RESEARCH & OEM
KORAD KY-18 NEODYMIUM YAG (ND YAG)	IV	1064	0.500		CIRC	0.100 J	50.0 P/S	8.00 NS	259 MJ/CM2	RESEARCH & OEM
KORAD K2000P RUBY	IV	694.3	1.90	5.00	CIRC	100 J			70.3 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE-LENGTH (NM)	DIA-METER (CM)	DIVER-GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
LASER ALIGNEMENT BEAM-ALIGNER HELIUM NEON (HENE)	II	632.8	0.080		CIRC	0.530 UJ			1.37 UW/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
LASER ALIGNMENTS 1278 HELIUM NEON (HENE)	IIIB	632.8	0.800		CIRC	2.44 MW TEM00	N/A		6.32 MW/CM2	LEVELING/ALIGNMENT
LASER ALIGNMENTS 1348 HELIUM NEON (HENE)	IIIB	632.8	0.600		CIRC	1.60 MW TEM00 2.10	N/A		4.15 MW/CM2 5.44	LEVELING/ALIGNMENT
LASER ALIGNMENTS 2100 HELIUM NEON (HENE)	IIIB	632.8	0.460		CIRC	2.00 MW TEM00 2.30	N/A		5.18 MW/CM2 5.96	LEVELING/ALIGNMENT
LASER ALIGNMENTS 2300 HELIUM NEON (HENE)	IIIB	632.8	0.600		CIRC	2.30 MW TEM00 2.50	N/A		5.96 MW/CM2 6.48	LEVELING/ALIGNMENT
LASER ALIGNMENTS 2400 HELIUM NEON (HENE)	IIIB	632.8	0.600		CIRC	1.80 MW TEM00 2.10	N/A		4.67 MW/CM2 5.44	LEVELING/ALIGNMENT
LASER ALIGNMENTS 2500 HELIUM NEON (HENE)	IIIB	632.8	0.600		CIRC	1.75 MW TEM00 2.25	N/A		4.54 MW/CM2 5.83	LEVELING/ALIGNMENT
LASER ANALYTICS LS SERIES TUNABLE PB-SAIT SEMCON CRY	IIIB	8700 12000	(.1)			1.00 MW AVER			127 MW/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
LASER ALIGNMENTS 2600 HELIUM NEON (HENE)	IIIB	632.8	0.570		CIRC	2.35 MW TEM00 1.67	N/A		6.09 MW/CM2 4.33	LEVELING/ALIGNMENT
LASER ASSOCIATES 211C RUBY	IIIB	694.3	1.00	5.00	CIRC	0.500 J 10.0	30.0 P/M	20.0 MS	1.27 J/CM2	RESEARCH & OEM
LASER ASSOCIATES 211N RUBY OR NDGLASS	IV	694.3 1064	1.30	7.00	CIRC	2.00 J 5.00		20.0 MS	3.01 J/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER ASSOCIATES 252B ND-CAWO	IV	1064	0.600	4.00	CIRC	100 MJ 6.00	20.0 P/S	15.0 MS 100	259 MJ/CM2	RESEARCH & OEM
LASER ASSOCIATES 252C NEODYMIUM YAG (ND YAG)	IV	1064	0.600	2.00	CIRC	75.0 MJ 4.00	20.0 P/S	50.0 MS 100	194 MJ/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
LASER ASSOCIATES 252C VD-CAWD	IV	1060	0.600	4.00	CIRC	1.50 J 6.00	10.0 P/S	200 US	3.89 J/CM2	RESEARCH & OEM
LASER ASSOCIATES 254A NEODYMIUM YAG (ND YAG)		1064	0.300	5.00	CIRC					RESEARCH & OEM INSUFFICIENT INFORMATION
LASER ASSOCIATES 254B NEODYMIUM YAG (ND YAG)	IIIB	1064	0.300	5.00	CIRC	0.100 TO AVER 0.400 W			259 MW/CM2 1.04 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER ASSOCIATES 254C NEODYMIUM YAG (ND YAG)	IV	1064	0.300	5.00	CIRC	2.00 TO AVER 3.00 W			5.18 W/CM2 7.78	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER ASSOCIATES 321 ARGON (AR)	IV	488.0 TO 514.5		0.500		750 W TEM00 1.50 W MULTI	N/A		1.94 KW/CM2 3.89 W/CM2	SCIENTIFIC INSTR.
LASER ASSOCIATES 331 ARGON (AR)	IV	488.0 TO 514.5		1.00		10.0 W MULTI	N/A		25.9 W/CM2	SCIENTIFIC INSTR.
LASER ASSOCIATES 501 RUBY OR ND-GLASS	IV	694.3 1060	2.00	3.00	CIRC	0.400 TO AVER 0.800 W		3.00 NS	254 MJ/CM2 508	RESEARCH & OEM
LASER ASSOCIATES 600 CARBON DIOXIDE (CO2)	IV	10600		2.00		150 W TEM00 200 W MULTI	N/A		19.0 KW/CM2 25.4	MAT. PROCESSING
LASER CONSULTANTS CU-11 COPPER VAPOR	IV	510.6 TO 578.2	(.1)	1.00		10.0 KW PEAK	2500 P/S	20.0 NS	518 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER DIODE LABS LD-22,32,62,SERIES GA-AS	IV	905.0	(.1)	125		4.00 W PEAK 25.0 MW AVER	2000 TO 5000 P/S	200 NS	2.07 UJ/CM2 64.8 MJ/CM2 13.0 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER DIODE LABS LA-63,65,68 GA-AL-AS	IIIB	850.0	(.1)	125		6.00 W PEAK 12.0 MW AVER	3500 P/S	100 NS	1.56 UJ/CM2 8.89	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER DIODE LABS LT-106 GA-AS	IIIB	905.0	(.1)	5.00		4.00 W PEAK	1.00 KHZ	30.0 NS	311 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER DIODE LABS LT-109 GA-AS	IIIB	905.0	(.1)	5.00		6.00 W PEAK	10.0 KHZ	40.0 NS	622 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
LASER DIODE LABS LT-136 GA-AS	IIIB	905.0	(.1)	10.0		8.00 W PEAK	5.00 KHZ	30.0 NS	622 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER DIODE LABS LT-139 GA-AS	IIIB	905.0	(.1)	10.0		15.0 W PEAK	5.00 KHZ	40.0 NS	1.56 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER DIODE LABS LA-163 GA-AL-AS	IIIB	850.0	(.1)	125		20.0 W PEAK	2000 P/S	100 NS	5.18 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER DIODE LABS 163,164,167 GA-AS	IIIB	905.0	(.1)	125		75.0 W PEAK 25.0	1000 TO 2000 P/S	200 NS	38.9 UJ/CM2 13.0	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER DIODE LABS LD-214S,215S,2248S GA-AS	IIIB	905.0	(.1)	125		150 W PEAK 60.0 MW AVER	1000 P/S	200 NS	77.8 UJ/CM2 156	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER DIODE LABS LA-215,220,235 GA-AL-AS	IIIB	850.0	(.1)	125		275 W PEAK 75.0 MW AVER	2000 P/S	100 NS	71.3 UJ/CM2 97.2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER DIODE LABS LA-215,215S,167 GA-AL-AS	IIIB	850.0	(.1)	125		75.0 W PEAK 15.0 MW AVER	2000 P/S	100 NS	19.4 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER DIODE LABS LS-410 GA-AS	IIIB	905.0	(.1)	8.00		1.00 KW PEAK	1.00 TO 5.00 KHZ	130 NS	337 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER DIODE LABS LSA-410 GA-AS	IIIB	905.0	(.1)	8.00		1.00 KW PEAK	1.00 TO 5.00 KHZ	90.0 NS	233 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER DIODE LABS LA-430 GA-AL-AS	IIIB	850.0	(.1)	125		225 W PEAK	1000 P/S	100 NS	58.3 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER DIODE LABS LD-430 GA-AS	IIIB	905.0	(.1)	125		300 W PEAK	1000 P/S	200 NS	156 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER ELECTR.PTY SL-A HELIUM NEON (HENE)	IIIB	632.8		1.00		10.0 MW MULTI	N/A		25.9 MW/CM2	RESEARCH & OEM
LASER ELECTR.PTY SL-B HELIUM NEON (HENE)	IIIB	632.8		1.00		5.00 MW MULTI	N/A		13.0 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- BEAM GENCE SHAPE (MRAD)	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
LASER ELECTR.PTY SL-C HELIUM NEON (HENE)	IIIB	632.8	1.00	3.00 MW MULTI		N/A	7.78 MW/CM2	RESEARCH & OEM
LASER ELECTR.PTY SL-D HELIUM NEON (HENE)	IIIB	632.8	1.00	5.00 MW MULTI		N/A	13.0 MW/CM2	RESEARCH & OEM
LASER ELECTR.PTY SL-X HELIUM NEON (HENE)	IIIB	632.8	1.00	15.0 MW MULTI		N/A	38.9 MW/CM2	RESEARCH & OEM
LASER ELECTR.PTY LE-101 HELIUM NEON (HENE)	IIIB	632.8	1.00	2.00 MW TEM00 3.00 MW MULTI		N/A	5.18 MW/CM2 7.78	RESEARCH & OEM
LASER ELECTR.PTY LE-102 HELIUM NEON (HENE)	IIIB	632.8	1.00	5.00 MW TEM00 6.50 MW MULTI		N/A	13.0 MW/CM2 16.8	RESEARCH & OEM
LASER ELECTR.PTY LE-103 HELIUM NEON (HENE)	IIIB	632.8	1.00	5.00 MW TEM00 6.50 MW MULTI		N/A	13.0 MW/CM2 16.8	RESEARCH & OEM
LASER ELECTR.PTY LE-104 HELIUM NEON (HENE)	IIIB	632.8	1.00	10.0 MW TEM00 12.0 MW MULTI		N/A	25.9 MW/CM2 31.1	RESEARCH & OEM
LASER ELECTR.PTY LE-105 HELIUM NEON (HENE)	IIIB	632.8	1.00	15.0 MW TEM00 18.0 MW MULTI		N/A	38.9 MW/CM2 46.7	RESEARCH & OEM
LASER ELECTR.PTY LE-106 HELIUM NEON (HENE)	IIIB	632.8	0.800	25.0 MW TEM00 28.0 MW MULTI		N/A	64.8 MW/CM2 72.6	RESEARCH & OEM
LASER ELECTR.PTY LE-107 HELIUM NEON (HENE)	IIIB	632.8	0.700	50.0 MW TEM00 60.0 MW MULTI		N/A	130 MW/CM2 156	RESEARCH & OEM
LASER ELECTR.PTY LE-200A HELIUM NEON (HENE)	IIIB	632.8	1.50	1.00 MW TEM00 2.00 MW MULTI		N/A	2.59 MW/CM2 5.18	RESEARCH & OEM
LASER ELECTR.PTY LE-350 HELIUM NEON (HENE)	IIIB	632.8	0.800	35.0 MW TEM00 50.0 MW MULTI		N/A	90.7 MW/CM2 130	RESEARCH & OEM
LASER ENERGY INC N2-50 DYE	IIIB	337.1	0.300	3.00 CIRC 50.0	2.00 KW PEAK 50.0	1.00 TO 100 P/S	10.0 NS 564 UJ/CM2 14.1 MJ/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
LASER ENERGY INC N-99 DYE	IIIB	337.1	0.300	3.00	CIRC	5.00 KW PEAK 50.0 UJ	1.00 TO 60.0 P/S	10.0 NS	1.41 MJ/CM2	RESEARCH & OEM
LASER ENERGY INC N100 NITROGEN (N2)	IIIB	337.1	0.640 1.27	5.00	RECT	10.0 MJ 1.00MGW PEAK	1.00 P/S 10.0	10.0 NS	12.3 MJ/CM2	RESEARCH & OEM
LASER ENERGY INC. N-100 NITROGEN (N2)	IIIB	337.1	0.640 1.27	5.00	RECT	10.0 MJ 1.00MGW PEAK	1.00 P/S 10.0	10.0 NS	12.3 MJ/CM2	RESEARCH & OEM
LASER ENERGY INC N105 NITROGEN (N2)	IIIB	337.1	0.640 1.27	5.00	RECT	60.0 MJ 10.0MGW PEAK	1.00 TO 10.0 P/S	6.00 NS	73.8 MJ/CM2 73.8	RESEARCH & OEM
LASER ENERGY INC N106 NITROGEN (N2)	IIIB	337.1	0.640 1.27	2.50	RECT	60.0 MJ 10.0MGW PEAK	1.00 TO 10.0 P/S	6.00 NS	73.8 MJ/CM2 73.8	RESEARCH & OEM
LASER ENERGY INC N125 NITROGEN (N2)	IIIB	337.1	0.640 1.27	2.50	CIRC CIRC	300 MJ 60.0MGW PEAK	1.00 TO 10.0 P/S	5.00 NS	1.86 J/CM2	RESEARCH & OEM
LASER ENERGY INC N300 NITROGEN (N2)	IIIB	337.1	0.317	2.00	CIRC	10.0 UJ 1.00 KW PEAK	4.00 TO 100 P/S		253 UW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER ENERGY INC N310 NITROGEN (N2)	IIIB	337.1	0.317	2.00	CIRC	50.0 UJ 5.00 KW PEAK	5.00 TO 200 P/S		1.26 MW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER ENERGY INC 337-OPTION 1 DYE	IV	370.0 TO 460.0	0.100	1.00	CIRC	4.00 KW PEAK 50.0 UJ	1.00 TO 100 P/S	10.0 NS	5.08 MJ/CM2 6.35	RESEARCH & OEM
LASER ENERGY INC 337-OPTION 2 DYE	IV	420.0 TO 520.0	0.100	1.00	CIRC	4.00 KW PEAK 50.0 UJ	1.00 TO 100 P/S	10.0 NS	104 UJ/CM2 130	RESEARCH & OEM
LASER ENERGY INC 337-OPTION 3 DYE	IV	520.0 TO 650.0	0.100	1.00	CIRC	7.00 KW PEAK 90.0 UJ	1.00 TO 100 P/S	10.0 NS	181 UJ/CM2 233	RESEARCH & OEM
LASER ENERGY INC. 347 DYE		340.0 TO 1175		4.00		35.0 KW PEAK				RESEARCH & OEM INSUFFICIENT INFORMATION
LASER ENERGY INC N350 NITROGEN (N2)	IIIB	337.1	0.317	2.00	CIRC	100 UJ 10.0 KW PEAK	500 P/S		1.26 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
LASER ENERGY INC N370 NITROGEN (N2)	IIIB	337.1	0.317	2.00	CIRC	2.00 UJ 40.0 1.20 KW PFAK	300 TO 450 P/S		50.5 UW/CM2 1.01 MW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER ENERGY INC N400 NITROGEN (N2)	IIIB	337.1	0.317	2.00	CIRC	25.0 UJ 1.25 KW PEAK	400 P/S		253 MW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LASER GRAPHICS SYS LASERGRAPH 3LASERS HE-NE/AR/CO2	ENCL	632.8 514.5 10600								MAT. PROCESSING CLASS I AS ENCLOSED INSUFFICIENT INFORMATION
LASER INC. MODEL-2 UNILASER ND/YAG	IV	1064		90.0		1.00 J		600 MS	2.59 J/CM2	EDUCATION PROVISIONAL -OSHA- CLASSIFICATION
LASER INC. MODEL-6 SERIES ND YAG DRILLING		1064						0.250 MS 0.600		MAT. PROCESSING INSUFFICIENT INFORMATION
LASER INC. MODEL-7 SERIES ND/YAG	IV	1064				1.00 KW AVER	5.00 P/S	6.00 MS	518 J/CM2	MAT. PROCESSING
LASER INC. MODEL-11 SERIES NO DATA						25.0 J TEM00				MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
LASER INC. MODEL 14 SERIES NO DATA										RESEARCH & OEM INSUFFICIENT INFORMATION
LASER LIGHT DR-1 HELIUM NEON (HENE)		632.8		1.40						RESEARCH & OEM INSUFFICIENT INFORMATION
LASER LIGHT PF-1 HELIUM NEON (HENE)	IIIB	632.8		0.800		1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM
LASER LIGHT PF-1.5 HELIUM NEON (HENE)	IIIB	632.8		0.800		1.50 MW TEM00	N/A		3.89 MW/CM2	RESEARCH & OEM
LASER LIGHT BW-2 HELIUM NEON (HENE)	IIIB	632.8		1.50		2.00 MW TEM00 3.50 MW MULTI	N/A		5.18 MW/CM2 9.07	RESEARCH & OEM
LASER LIGHT PF-2 HELIUM NEON (HENE)	IIIB	632.8		0.800		2.00 MW TEM00	N/A		5.18 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
LASER LIGHT PF-2-5 HELIUM NEON (HENE)	IIIB	632.8		0.800		2.50 MW TEM00		N/A	6.48 MW/CM2	RESEARCH & OEM
LASER LIGHT PF-3M HELIUM NEON (HENE)	IIIB	632.8		1.50		3.00 MW TEM00		N/A	7.78 MW/CM2	RESEARCH & OEM
LASER LIGHT P-5 HELIUM NEON (HENE)	II	632.8		1.00		0.500 MW TEM00		N/A	1.30 MW/CM2	RESEARCH & OEM
LASER LIGHT P-10 HELIUM NEON (HENE)	IIIB	632.8		0.800		2.00 MW TEM00		N/A	5.18 MW/CM2	RESEARCH & OEM
LASER NUCLEONICS ML-1 RUBY OR NDGLASS	IV	694.3 1060	0.600		CIRC	1.00 J MULTI	1.00 P/M	1.00 MS	2.59 J/CM2	RESEARCH & OEM
LASER NUCLEONICS 3-1 SERIES RUBY OR ND-GLASS	IV	694.3 1060				0.100 J 6.00	0.250 TO 0.600 P/S		259 W/CM2 15.6 W/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
LASER NUCLEONICS 7-1 SERIES RUBY OR ND-GLASS	IV	694.3 1060				5.00 J 20.0	4.00 TO 900 P/S		13.0 W/CM2 51.8	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
LASER NUCLEONICS 7-1-9 RUBY OR NDGLASS	IV	694.3 1060	1.60		CIRC	40.0 J	1.00 P/S	2.00 MS	39.7 J/CM2	RESEARCH & OEM
LASER NUCLEONICS 7-1-10 RUBY OR NDGLASS	IV	694.3 1060	1.60		CIRC	40.0 J	4.00 P/M	2.00 MS	39.7 J/CM2	RESEARCH & OEM
LASER NUCLEONICS 7-2 SERIES RUBY OR ND-GLASS	IV	694.3 1060				30.0 J 100	2.00 TO 120 P/M		77.8 W/CM2 259	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
LASER NUCLEONICS 7-2-9RS RUBY OR NDGLASS	IV	694.3 1060	1.60		CIRC	150 J	1.00 P/S	2.50 MS	149 J/CM2	RESEARCH & OEM
LASER NUCLEONICS 7-2-10 RUBY OR NDGLASS	IV	694.3 1060	1.60		CIRC	150 J	2.00 P/M	2.50 MS	149 J/CM2	RESEARCH & OEM
LASER NUCLEONICS 14-2 SERIES RUBY OR ND-GLASS	IV	694.3 1060				150 J 400	1.00 TO 16.0 P/M		389 W/CM2 1.04 KW/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
LASER NUCLEONICS 14-2-BBR RUBY OR NDGLASS	IV	694.3 1060	1.60		CIRC	150 TO 400 J	16.0 P/M	2.50 MS	149 J/CM2 397	RESEARCH & OEM
LASER NUCLEONICS 14-2-10 RUBY OR NDGLASS	IV	694.3 1060	1.60		CIRC	400 J AVER	1.00 P/M	2.50 MS	397 J/CM2	RESEARCH & OEM
LASER NUCLEONICS B43 RUBY OR ND	IV	694.3 1064	0.600		CIRC	2.00 J	1.00 P/M		5.18 W/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
LASER NUCLEONICS A-52 RUBY OR NDGLASS	IV	694.3 1060	0.600		CIRC	1.00 J AVER	1.00 P/S	1.00 MS	2.59 J/CM2	RESEARCH & OEM
LASER NUCLEONICS A-52BD RUBY OR NDGLASS	IV	694.3 1060	0.600		CIRC	1.00 J AVER	2.00 P/S	1.00 MS	1.30 J/CM2	RESEARCH & OEM
LASER NUCLEONICS A52 RUBY OR ND	IV	694.3 1064	0.600		CIRC	1.00 J	0.250 P/S		2.59 W/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
LASER NUCLEONICS A-52-W RUBY OR ND	IV	694.3 1064	0.600		CIRC	1.00 J	3.00 P/S		7.78 W/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
SEE ALSO MASER OPTICS										
LASER SCIENCES 240 ARGON (AR)	IIIB	457.9 TO 514.5		1.20		25.0 MW TEM00			64.8 W/CM2	RESEARCH & OEM
LASER SCIENCES 245 ARGON (AR)	IIIB	457.9 TO 514.5		1.20		50.0 MW TEM00			130 W/CM2	RESEARCH & OEM
LASER SCIENCES 251 ARGON (AR)	IV	457.9 TO 514.5		1.80		1.00 W MULTI			2.59 W/CM2	MAT. PROCESSING
LASER SCIENCES 252 ARGON (AR)	IV	457.9 TO 514.5		1.80		2.00 W MULTI			5.18 W/CM2	MAT. PROCESSING

LASER SYSTEMS AND ELECTRONICS    SEE LS&E

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (M RAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
LASER TECHNIQUE LT-1 NEODYMIUM YAG (ND YAG)	IV	1064		5.00		0.800 J MULTI	25.0 P/S	50.0 MS 2000	51.8 W/CM <sup>2</sup>	RESEARCH & OEM
LEAR SIEGLER GS1 HELIUM NEON (HENE)	IIIB	632.8 1150 3390				5.00 MW	N/A		635 MW/CM <sup>2</sup>	RESEARCH & OEM
LEAR SIEGLER LS1 RUBY ND GLASS	IV	694.0 106.0				3.00 J	3.00 P/M	500 US	7.78 J/CM <sup>2</sup> 381	RESEARCH & OEM
LEAR SIEGLER LS2 RUBY ND GLASS	IV	694.3 1060				3.00 J	3.00 P/M	50.0 US	7.78 J/CM <sup>2</sup>	RESEARCH & OEM
LEAR SIEGLER LS3 RUBY ND GLASS	IV	694.3 1060				3.00 J	3.00 P/M	500 US	7.78 J/CM <sup>2</sup>	RESEARCH & OEM
LEAR SIEGLER LS4 RUBY ND GLASS	IV	694.3 1060				25.0 J	2.00 P/M	1.00 MS	64.8 J/CM <sup>2</sup>	RESEARCH & OEM
LEAR SIEGLER LS5 RUBY ND GLASS	IV	694.3 1060				3.00 J	3.00 P/M	500 US	7.78 J/CM <sup>2</sup>	RESEARCH & OEM
LEAR SIEGLER LS8 RUBY ND GLASS	IV	694.3 1060				25.0 J			64.8 J/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LEAR SIEGLER XLS11 RUBY	IV	694.3				150 J	2.00 P/M	2.00 MS	389 J/CM <sup>2</sup>	RESEARCH & OEM
LEAR SIEGLER XLS12 ND DOUBLED	IIIB	530.5	(.1)			10.0 KW PEAK	6.00 P/M	0.100 US	2.59 MJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LEAR-SIEGLER LR-4 ND	IV	1064 530.0	0.800 0.150	1.50	RECTO	0.100 J	10.0 P/S	40.0 NS	833 MJ/CM <sup>2</sup>	RESEARCH & OEM
LASER IND. LMT SHARPLAN-791 CARBON DIOXIDE (CO2)	IV	10600				50.0 W AVER			6.35 KW/CM <sup>2</sup>	MEDICAL INSUF. SPECS USED IN SURGERY PROVISIONAL -OSHA- CLASSIFICATION
LEXEL 75-A ARGON (AR)	IIIB	457.9 TO 582.7	0.090	1.50	CIRC	200 MW TEMOO	N/A		518 MW/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
LEXEL 75-K KRYPTON (KR)	IIIB	647.1 676.4	0.090	1.50	CIRC	50.0 MW TEM00 10.0		N/A	130 MW/CM <sup>2</sup> 25.9	RESEARCH & OEM
LEXEL 85-A ARGON (AR)	IIIB	457.9 TO 1092	0.120	1.20	CIRC	50.0 MW MULTI 35.0 MW TEM00		N/A	130 MW/CM <sup>2</sup> 90.7	RESEARCH & OEM
LEXEL 85-K KRYPTON (KR)	IV	647.1 676.4 752.5	0.120	1.20	CIRC	10.0 MW AVER 25.0 100			25.9 MJ/CM <sup>2</sup> 64.8 259	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LEXEL 95 ION LASER ARGON	IV	486.0 TO 514.5				4.00 W		N/A	10.4 W/CM <sup>2</sup>	RESEARCH & OEM
LEXEL 95 ION LASER KRYPTON	IV	568.2 TO 476.2				600 MW		N/A	1.56 W/CM <sup>2</sup>	RESEARCH & OEM
LEXEL 96 ION LASER ARGON	IV	486.0 TO 514.5	0.013 TO 0.018	0.600 TO 1.50	CIRC CIRC	5.00 W TEM00		N/A	13.0 W/CM <sup>2</sup>	RESEARCH & OEM
LICONIX 301 HELIUM CADMIUM (HECD)	IIIB	325.0	0.090	0.460	CIRC	1.50 MW TEM00		N/A	190 MW/CM <sup>2</sup>	RESEARCH & OEM
LICONIX 301-M HELIUM CADMIUM (HECD)	IIIB	325.0	0.090	0.460	CIRC	1.00 MW TEM00		N/A	127 MW/CM <sup>2</sup>	RESEARCH & OEM
LICONIX 301-US HELIUM CADMIUM (HECD)	IIIB	325.0	0.090	0.460	CIRC	1.00 MW TEM00		N/A	127 MW/CM <sup>2</sup>	RESEARCH & OEM
LICONIX 302 HELIUM CADMIUM (HECD)	IIIB	325.0	0.071	0.580	CIRC	5.00 MW TEM00		N/A	635 MW/CM <sup>2</sup>	RESEARCH & OEM
LICONIX 303 HELIUM CADMIUM (HECD)	IIIB	325.0	0.071	0.580	CIRC	2.50 MW TEM00		N/A	317 MW/CM <sup>2</sup>	RESEARCH & OEM
LICONIX 401 HELIUM CADMIUM (HECD)	IIIB	441.6	0.083	0.680	CIRC	10.0 MW TEM00		N/A	25.9 MW/CM <sup>2</sup>	RESEARCH & OEM
LICONIX 401-M HELIUM CADMIUM (HECD)	IIIB	441.6	0.083	0.680	CIRC	10.0 MW TEM00		N/A	25.9 MW/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE-LENGTH (NM)	DIA-METER (CM)	DIVER-GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
LICONIX 401-US HELIUM CADMIUM (HECD)	IIIB	441.6	0.083	0.680	CIRC	8.00 MW TEM00	N/A		20.7 MW/CM2	RESEARCH & OEM
LICONIX 401-V HELIUM CADMIUM (HECD)	IIIB	441.6	0.110	0.500	CIRC	12.0 MW TEM00	N/A		31.1 MW/CM2	RESEARCH & OEM
LICONIX 402 HELIUM CADMIUM (HECD)	IIIB	441.6	0.083	0.680	CIRC	18.0 MW TEM00	N/A		46.7 MW/CM2	RESEARCH & OEM
LICONIX 403 HELIUM CADMIUM (HECD)	IIIB	441.6	0.083	0.680	CIRC	14.0 MW TEM00	N/A		36.3 MW/CM2	RESEARCH & OEM
LICONIX 404 HELIUM CADMIUM (HECD)	IIIB	441.6	0.083	0.680	CIRC	7.00 MW TEM00	N/A		18.1 MW/CM2	RESEARCH & OEM
LICONIX 405 HELIUM CADMIUM (HECD)	IIIB	441.6	0.083	0.680	CIRC	40.0 MW TEM00	N/A		104 MW/CM2	RESEARCH & OEM
LICONIX 405 HELIUM CADMIUM (HECD)	IIIB	441.6 325.0	0.083	0.680	CIRC	40.0 MW TEM00 15.0	N/A		5.08 W/CM2 1.90	RESEARCH & OEM
LICONIX 501 HE-SE	IIIB	460.4 TO 649.0	0.100	1.00	CIRC	3.50 MW TEM00	N/A		9.07 MW/CM2	RESEARCH & OEM
LICONIX 501-M HE-SE	IIIB	497.0 TO 530.0	0.100	1.00	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM
LICONIX 501-US HE-SE	IIIB	497.0 TO 530.0	0.100	1.00	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM
LICONIX 603-M HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM2	RESEARCH & OEM
LICONIX 603-US HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM2	RESEARCH & OEM
LICONIX 605-M HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	5.00 MW TEM00	N/A		13.0 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
LICONIX 607-M HELIUM NEON (HENE)	IIIB	632.8	0.126	0.750	CIRC	3.00 MW TEM00		N/A	7.78 MW/CM2	RESEARCH & OEM
LICONIX 3015 HELIUM CADMIUM (HECD)	IIIB	325.0	0.083	0.680	CIRC	1.00 MW TEM00		N/A	127 MW/CM2	RESEARCH & OEM
LICONIX 3025 HELIUM CADMIUM (HECD)	IIIB	325.0	0.083	0.680	CIRC	2.00 MW TEM00		N/A	254 MW/CM2	RESEARCH & OEM
LICONIX 3035 HELIUM CADMIUM (HECD)	IIIB	325.0	0.083	0.680	CIRC	1.50 MW TEM00		N/A	190 MW/CM2	RESEARCH & OEM
LICONIX 4015 HELIUM CADMIUM (HECD)	IIIB	441.6	0.090	0.460	CIRC	8.00 MW TEM00		N/A	20.7 MW/CM2	RESEARCH & OEM
LICONIX 4025 HELIUM CADMIUM (HECD)	IIIB	441.6	0.071	0.580	CIRC	12.0 MW TEM00		N/A	31.1 MW/CM2	RESEARCH & OEM
LICONIX 4035 HELIUM CADMIUM (HECD)	IIIB	441.6	0.071	0.580	CIRC	10.0 MW TEM00		N/A	25.9 MW/CM2	RESEARCH & OEM
LITTON PRECISION OMG10B HELIUM NEON (HENE)	IIIB	632.8 1150 3390				2.00 MW		N/A	254 MW/CM2	RESEARCH & OEM
LS&E RANGER I HELIUM NEON (HENE)	IIIB	632.8	1.20		CIRC	3.00 MW		N/A	5.29 MW/CM2	DIST. METER
LS&E RANGER II HELIUM NEON (HENE)	IIIB	632.8	1.20		CIRC	3.00 MW		N/A	5.29 MW/CM2	DIST. METER 2.5 KM CAUTION RNG
LS&E RANGER III HE NE	IIIB	632.8	1.20		CIRC	3.00 MW TEM00		N/A	5.29 MW/CM2	DIST. METER 4 KM CAUTION RNG
LS&E RANGEMASTER HELIUM NEON (HENE)	IIIB	632.8	0.500	0.060	CIRC	10.0 MW TEM00		N/A	25.9 MW/CM2	DIST. METER 8 KM CAUTION RNG
LS&E LASERPROBE GA-AS	IIIB	906.0	0.200		CIRC	0.100 UJ	1000 P/S		259 UW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
LS&E MICRORANGER GA-AS	IIIB	915.0	2.80	4.00	CIRC	210 UW AVER 15.0 J	135 MHZ	30.0 NS	50.4 PJ/CM2	DIST. METER
LUMONICS TEA-101 CO2-N2-HE	IV	10600	3.81	2.10	CIRC	50.0MGW PEAK 15.0 J	1.00 P/S		2.62 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LUMONICS TEA-102 CO2-N2-HE	IV	10600	3.81	2.10	CIRC	32.5MGW PEAK 9.75 J	1.00 P/S		1.71 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LUMONICS TEA-103 CO2-N2-HE	IV	10600	3.81	2.10	CIRC	32.5MGW PEAK 9.75 J	1.00 P/S		1.71 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LUMONICS TEA-202 CARBON DIOXIDE (CO2)	IIIB	10600	3.81	2.00	CIRC	20.0 KW PEAK 50.0 MJ	1.00 P/S	0.500 US 4.00	14.0 MJ/CM2 8.75	RESEARCH & OEM
LUMONICS TEA-203 CARBON DIOXIDE (CO2)	IIIB	10600	3.81	2.10	CIRC	20.0 KW PEAK 50.0 MJ	1.00 P/S	0.500 US 4.00	14.0 MJ/CM2 8.75	RESEARCH & OEM
LUMONICS TEA-211-A HF-DF	IV	2640 3830	3.18	4.00	CIRC	1100 KW PEAK 550 MJ	1.00 P/S		139 MW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LUMONICS TEA-212-A HF-DF	IV	2640 3830	3.18	4.00	CIRC	2200 KW PEAK 1100 MJ	1.00 P/S		277 MW/CM2	RESEARCH & OEM ALSO 5HZ OPTION PROVISIONAL -OSHA- CLASSIFICATION
LUMONICS TEA-601-A CARBON DIOXIDE (CO2)	IV	10600		3.20		350MGW PEAK 75.0 J		50.0 NS	2.22 KJ/CM2 9.52	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LUMONICS TEA-602-A NO MEDIUM				2.30		850MGW PEAK 160 J		50.0 NS		RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LUMONICS TEA-603-A NO MEDIUM				1.90		1.50 GW PEAK 245 J		50.0 NS		RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LUMONICS TEA-604-A NO MEDIUM				1.60		2.30 GW PEAK 330 J		50.0 NS		RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
LUMONICS T6A-620 CARBON DIOXIDE (CO2)		10600	20.0	0.150	CIRC		1.00 P/S			RESEARCH & OEM INSUFFICIENT INFORMATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
LUMONICS TEA-801 (HMML) CARBON DIOXIDE (CO2)	IV	10600	3.00 3.00		CIRC	1500 KW PEAK CIRC0.700 J	25.0 P/S	50.0 NS	21.2 MJ/CM2 197	RESEARCH & OEM ALSO 50HZ IN 10 SEC.BURST
LUMONICS TEA-801 (MMML) N20			3.00 3.00		CIRC	130 KW PEAK CIRC0.400 J	10.0 P/S	50.0 NS		RESEARCH & OEM NO DATA SINGLELINE 20HZ IN 10S.BURST
LUMONICS TEA-801 (HMML) CO	IIIB	5592	3.00 3.00		CIRC	12.0 KW PEAK CIRC0.025 J	10.0 P/S	50.0 NS	169 UJ/CM2 7.05 MJ/CM2	RESEARCH & OEM AND 20HZ-10S BURST
MARCONI-ELLIOT AVI LASERBLADE CARBON DIOXIDE (CO2)	IV	10600	2.50	2.00	CIRC	500 W MULTI			203 W/CM2	MAT. PROCESSING
MARCONI-ELLIOT AVI LASERLINE HELIUM NEON (HENE)	II	632.8	2.50	0.100	CIRC	0.500 MW TEMOD			203 UW/CM2	MAT. PROCESSING
MARTIN MARIETTA LLTD NEODYMIUM YAG (ND YAG)	IV	1064		0.500		80.0 W AVER	1.00 TO 10.0 P/S	0.018 US	207 J/CM2	RESEARCH & OEM
MARTIN MARIETTA M-71 NEODYMIUM YAG (ND YAG)	IV	1064		0.500		150 W AVER	1.00 TO 10.0 P/S	0.020 US	389 J/CM2	RESEARCH & OEM
MASER OPTICS LASER WELDER RUBY	IV	694.3				1.00 J	1.00 P/S	2.00 MS	2.59 J/CM2	MAT. PROCESSING
MASER OPTICS RETINAL COAGULATOR RUBY	IV	694.3	(.1)			0.500 J	0.125 P/S	2.00 MS	1.30 J/CM2	MEDICAL PROVISIONAL -OSHA- CLASSIFICATION
MASER OPTICS 500 RUBY		694.3								RESEARCH & OEM INSUFFICIENT INFORMATION
MASER OPTICS 542 RUBY OR ND.	IV	694.3 1060				1.50 J	1.00 P/M	1.50 MS	3.89 J/CM2	RESEARCH & OEM
MASER OPTICS 3-542 RUBY	IV	694.3				4.00 J 8.00	0.100 P/S	500 US	10.4 J/CM2 20.7	RESEARCH & OEM
MASER OPTICS 552 RUBY OR ND	IV	694.3 1060				2.00 J	60.0 P/M	1.50 MS	5.18 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- BEAM GENGE SHAPE (MRAD)	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
MASER OPTICS 3-552 RUBY	IV	694.3		2.00 J	1.00 P/S	400 US	5.18 J/CM2	RESEARCH & OEM
MASER OPTICS 600 RUBY	IV	694.3 (.1)		0.500 J	0.033 P/S	250 US	1.30 J/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
MASER OPTICS 601 RUBY OR ND.	IV	694.3 (.1) 1060		0.500 J	1.00 P/M	1.00 MS	1.30 J/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
MASER OPTICS 700 GAS LASER HELIUM NEON (HENE)	IIIB	632.8		3.00 MW	N/A		7.78 MW/CM2	RESEARCH & OEM
MASER OPTICS 715-Y HELIUM NEON (HENE)	IIIB	632.8		4.00 MW MULTI 2.00 MW TEM00	N/A		10.4 MW/CM2 5.18	RESEARCH & OEM
MASER OPTICS 720 HELIUM NEON (HENE)	IIIB	632.8		10.0 MW MULTI 3.00 MW TEM00	N/A		25.9 MW/CM2 7.78	RESEARCH & OEM
MASER OPTICS 730 HELIUM NEON (HENE)	IIIB	632.8		20.0 MW MULTI 8.00 MW TEM00	N/A		51.8 MW/CM2 20.7	RESEARCH & OEM
MASER OPTICS 750 ARGON (AR)	IIIB	588.0		500 MW MULTI	N/A		1.30 W/CM2	RESEARCH & OEM
MASER OPTICS 760 CARBON DIOXIDE (CO2)	IV	1060		500 W MULTI	N/A		1.30 KW/CM2	RESEARCH & OEM
MASER OPTICS 865 RUBY OR ND	IV	694.3 1060		20.0 J	1200 P/M	1.50 MS	51.8 J/CM2	RESEARCH & OEM
MASER OPTICS 868 RUBY OR ND	IV	694.3 1060		100 J 150MGW PEAK	180 P/M	2.00 MS 10.0 NS	259 J/CM2 3.89	RESEARCH & OEM
MASER OPTICS 869 RUBY OR ND	IV	694.3 1060		150 J 250MGW PEAK	180 P/M	2.00 MS 15.0 NS	389 J/CM2 1.30 MGJ/CM2	RESEARCH & OEM
MASER OPTICS 869-14 RUBY OR ND	IV	694.3 1060		600 J 1.00 GW PEAK	1.00 P/M	3.00 MS 20.0 NS	1.56 KJ/CM2 7.78 MGJ/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE-LENGTH (NM)	DIA-METER (CM)	DIVER-GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
MASER OPTICS 3020 RUBY	IV	694.3				40.0 J	2.00 P/M 3.00	1.00 MS	104 J/CM2	RESEARCH & OEM
MASER OPTICS 3100 RUBY	IV	694.3				175 J	1.00 P/M 5.00	1.00 MS	454 J/CM2	RESEARCH & OEM
MASER OPTICS 3020 RUBY	IV	694.3				40.0 J	3.00 P/M	1.00 MS	104 J/CM2	RESEARCH & OEM
MASER OPTICS 3300 RUBY	IV	694.3	0.190	1.00	CIRC	400 J	1.00 P/M	4.00 PS	1.04 KJ/CM2	RESEARCH & OEM
MASER OPTICS 3700 RUBY	IV	694.3				700 J	0.100 P/M	2.00 MS	1.81 KJ/CM2	RESEARCH & OEM
MELPAR CORP 1A TWO MIRROR HELIUM NEON (HENE)	IIIB	632.8 1150 3390				30.0 MW	N/A		3.81 W/CM2	RESEARCH & OEM
MELPAR 1A 2 MIRROR HELIUM NEON (HENE)	IIIB	632.8 1150 3390				30.0 MW	N/A		3.81 W/CM2	RESEARCH & OEM
MELPAR CORP 1B THREE MIRROR HELIUM NEON (HENE)	IIIB	632.8 1150 3390				30.0 MW	N/A		3.81 W/CM2	RESEARCH & OEM
MELPAR 1B 3 MIRROR HELIUM NEON (HENE)	IIIB	632.8 1150 3390				30.0 MW	N/A		3.81 W/CM2	RESEARCH & OEM
HERET DIX-216 GA-AL-AS	IIIB	905.0	(.1)	238 109		6.00 W PEAK	6.00 KHZ	45.0 NS	700 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
HERET FID-307 GA-AL-AS	IIIB	905.0	(.1)	255 170		3.00 W PEAK	20.0 KHZ	40.0 NS	311 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
HERET FIP-307 GA-AL-AS	IIIB	905.0	(.1)	255 170		3.00 W PEAK	9.00 KHZ	40.0 NS	120 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
HERET FID-316 GA-AL-AS	IIIB	905.0	(.1)	238 109		6.00 W PEAK	20.0 KHZ	45.0 NS	700 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS	
MERET FIP-125 GA-AS	IIIB	905.0	(.1)	255 85.0		20.0 W PEAK	5000 P/S	40.0 NS	2.07 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION	
MERET FIP-316 GA-AL-AS	IIIB	905.0	(.1)	238 109		6.00 W PEAK	6.00 KHZ	45.0 NS	700 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION	
MERET FIP-325 GA-AL-AS	IIIB	905.0	(.1)	204 85.0		10.0 W PEAK	5.00 KHZ	50.0 NS	1.30 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION	
MERET FIP-337 GA-AL-AS	IIIB	905.0	(.1)	680 340		150 W PEAK	500 P/S	100 NS	38.9 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION	
MERET FIP-574 GA-AS	IIIB	905.0	(.1)			75.0 W PEAK 300	100 P/S	200 NS	38.9 UJ/CM2 156	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION	
MERET FIT-307 GA-AS	IIIB	905.0	(.1)	170 85.0		2.00 W PEAK	200 KHZ	30.0 NS	156 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION	
MERET FJT-310 GA-AS	IIIB	905.0	(.1)	170 85.0		1.00 W PEAK	1.00 MHZ	20.0 NS	51.8 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION	
METROLOGIC 60-203 HELIUM NEON (HENE)	II	632.8	0.100	1.50	CIRC	0.700 MW TEM00			N/A	1.81 MW/CM2	RESEARCH & OEM
METROLOGIC ML-310 HELIUM NEON (HENE)	II	632.8	0.100	1.50	CIRC	0.700 MW			N/A	1.81 MW/CM2	RESEARCH & OEM
METROLOGIC MK-310 KIT HELIUM NEON (HENE)	II	632.8	0.100	1.50	CIRC	0.700 MW			N/A	1.81 MW/CM2	RESEARCH & OEM
METROLOGIC ML-311 HELIUM NEON (HENE)	IIIB	632.8	0.175	5.00	CIRC	3.00 MW			N/A	7.78 MW/CM2	RESEARCH & OEM
METROLOGIC ML-339 HELIUM NEON (HENE)	IIIB	632.8	(.1)			1.50 MW AVER				3.89 MW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
METROLOGIC ML-360 HELIUM NEON (HENE)	IIIB	632.8	0.090	0.800	CIRC	1.00 MW TEM00			N/A	2.59 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
METROLOGIC MK-360 KIT HELIUM NEON (HENE)	IIIB	632.8	0.090	0.800	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-362 HELIUM NEON (HENE)	II	632.8	0.100	0.800	CIRC	0.500 MW TEM00	N/A		1.30 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-382 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-410 HELIUM NEON (HENE)	IIIB	632.8	0.090	0.800	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC MK-410 KIT HELIUM NEON (HENE)	IIIB	632.8	0.090	0.800	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-411 HELIUM NEON (HENE)	IIIB	632.8	0.150	6.00	CIRC	8.00 MW	N/A		20.7 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-420 HELIUM NEON (HENE)	IIIB	632.8	0.090	0.800	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC MK-420 KIT HELIUM NEON (HENE)	IIIB	632.8	0.090	0.800	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-510 HELIUM NEON (HENE)	IIIB	632.8				1.50 MW	N/A		3.89 MW/CM <sup>2</sup>	RESEARCH & OEM ABOVE MODELS MANU- FACTURED FROM 1969
METROLOGIC INSTR ML-550 HELIUM NEON (HENE)	IIIB	632.8	0.150	0.800	CIRC	5.00 MW TEM00	N/A		13.0 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-610 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.50	CIRC	1.00 MW	N/A		2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC MC-610 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.50	CIRC	1.00 MW	N/A		2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-611 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.500	CIRC	2.50 MW	N/A		6.48 MW/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
METROLOGIC MC-611 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.500	CIRC	2.50 MW	N/A		6.48 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-660 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC MC-660 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-680 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	1.50 MW TEM00	N/A		3.89 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC MC-680 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	1.50 MW TEM00	N/A		3.89 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-684 HELIUM NEON (HENE)	IIIB	632.8	0.150	0.800	CIRC	1.20 MW TEM00	N/A		3.11 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-805 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.50	CIRC	1.00 MW	N/A		2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-806 HELIUM NEON (HENE)	IIIB	632.8	0.100	5.00	CIRC	2.50 MW	N/A		6.48 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-810 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	2.50 MW TEM00	N/A		6.48 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-811 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-812 HELIUM NEON (HENE)	IIIB	632.8	0.120	5.00	CIRC	6.00 MW	N/A		15.6 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-815 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-819,115 HELIUM NEON (HENE)	IIIB	1153	0.080	0.800	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
METROLOGIC ML-820,339 HELIUM NEON (HENE)	IIIB	3390	0.080	0.800	CIRC	1.50 MW TEM00	N/A		190 MW/CM2	RESEARCH & OEM
METROLOGIC ML-825 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	4.50 MW TEM00	N/A		11.7 MW/CM2	RESEARCH & OEM
METROLOGIC ML-910 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	2.50 MW TEM00	N/A		6.48 MW/CM2	RESEARCH & OEM
METROLOGIC MC-910 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	2.50 MW TEM00	N/A		6.48 MW/CM2	RESEARCH & OEM
METROLOGIC ML-911 HELIUM NEON (HENE)	IIIB	632.8	0.120	5.00	CIRC	6.00 MW	N/A		15.6 MW/CM2	EDUCATION
METROLOGIC MC-911 HELIUM NEON (HENE)	IIIB	632.8	0.120	5.00	CIRC	6.00 MW	N/A		15.6 MW/CM2	EDUCATION
METROLOGIC ML-920 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM2	RESEARCH & OEM
METROLOGIC MC-920 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM2	RESEARCH & OEM
METROLOGIC ML-930 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	4.50 MW TEM00	N/A		11.7 MW/CM2	RESEARCH & OEM
METROLOGIC MC-930 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	4.50 MW TEM00	N/A		11.7 MW/CM2	RESEARCH & OEM
METROLOGIC ML-939 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM2	RESEARCH & OEM ABOVE MODELS MANU- FACTURED 1972 TO
METROLOGIC ML-115 HELIUM NEON (HENE)	IIIB	632.8	0.080	0.800	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM
METROLOGIC ML-325 HELIUM CADMIUM (HECD)	IIIB	325.0	0.100	0.400	CIRC	4.00 MW TEM00	N/A		508 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
METROLOGIC ML-339 HELIUM NEON (HENE)	IIIB	632.8	0.080	0.800	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-441 HELIUM CADMIUM (HECD)	IIIB	441.6	0.100	0.600	CIRC	10.0 MW TEM00		N/A	25.9 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-442 HELIUM CADMIUM (HECD)	IIIB	441.6	0.100	0.600	CIRC	20.0 MW TEM00		N/A	51.8 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC PE-500 HELIUM NEON (HENE)	IIIB	632.8	0.120	1.00	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-610 HELIUM NEON (HENE)	IIIB	632.8	0.120	1.30	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC MC+MD-610 HELIUM NEON (HENE)	IIIB	632.8	0.120	1.30	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-660 HELIUM NEON (HENE)	IIIB	632.8	0.120	1.00	CIRC	1.50 MW TEM00		N/A	3.89 MW/CM <sup>2</sup>	EDUCATION
METROLOGIC MC+MD-660 HELIUM NEON (HENE)	IIIB	632.8	0.120	1.00	CIRC	1.50 MW TEM00		N/A	3.89 MW/CM <sup>2</sup>	EDUCATION
METROLOGIC ML-669 HELIUM NEON (HENE)	IIIB	632.8	0.120	1.00	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-680 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	1.90 MW TEM00		N/A	4.92 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC MC+MD-680 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	1.90 MW TEM00		N/A	4.92 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-684 HELIUM NEON (HENE)	IIIB	632.8	0.120	0.800	CIRC	1.20 MW TEM00		N/A	3.11 MW/CM <sup>2</sup>	RESEARCH & OEM
METROLOGIC ML-911 HELIUM NEON (HENE)	IIIB	632.8	0.120	5.00	CIRC	5.00 MW TEM00		N/A	13.0 MW/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
METROLOGIC ML-920 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	2.80 MW TEM00	N/A		7.26 MW/CM2	RESEARCH & OEM
METROLOGIC MC+MD-920 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	2.80 MW TEM00	N/A		7.26 MW/CM2	RESEARCH & OEM
METROLOGIC ML-930 HELIUM NEON (HENE)	IIIR	632.8	0.100	0.800	CIRC	4.50 MW TEM00	N/A		11.7 MW/CM2	RESEARCH & OEM
METROLOGIC MC+MD-930 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	4.50 MW TEM00	N/A		11.7 MW/CM2	RESEARCH & OEM
METROLOGIC MD-931 HELIUM NEON (HENE)	IIIB	632.8				4.00 MW	N/A		10.4 MW/CM2	RESEARCH & OEM
METROLOGIC MD-935 HELIUM NEON (HENE)	IIIB	632.8				3.00 MW	N/A		7.78 MW/CM2	RESEARCH & OEM
METROLOGIC ML-939 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM2	RESEARCH & OEM
METROLOGIC METROBEAM HELIUM NEON (HENE)	IIIB	632.8				3.00 MW TEM00	N/A		7.78 MW/CM2	RESEARCH & OEM ABOVE MODELS PERIOD 1972-JUNE 1975
MESSERSCHMITT+R&B MEDILAS-KYBERNETIK NEODYMIUM YAG (ND YAG)	IV	1064				30.0 W	N/A		77.8 W/CM2	MEDICAL
MICRONETICS 30 NEODYMIUM YAG (ND YAG)	IIIB	1064	0.500	5.00	CIRC	10.0 MJ AVER	500 P/S	160 NS	51.8 UJ/CM2	RESEARCH & OEM
MICRONETICS NOT GIVEN NEODYMIUM YAG (ND YAG)	IV	1064	0.500		CIRC	1.50 W AVER	5000 P/S	240 NS	778 UJ/CM2	RESEARCH & OEM DIFFRACTION LIMITED
MICRONETICS NOT GIVEN NEODYMIUM YAG (ND YAG)	IV	1064	0.100	1.00	CIRC	1.50 W AVER	500 P/S	160 NS	7.78 MJ/CM2	RESEARCH & OEM
MOLECTRON 215 H20-MCN	I	1180UM 3370UM	0.900		CIRC	20.0 MW AVER 1.00 UJ	15.0 P/S	5.00 US	1.69 MJ/CM2 1.27 UJ/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
MOLECTRON 215 H2O-HCN	IV	118UM 337UM	0.900		CIRC	1.00 W MULT1		N/A	1.27 W/CM2	RESEARCH & OEM
MOLECTRON 450H HYDROGEN CYANIDE (HCN)	I	337UM	1.00	6.00	CIRC	50.0 MW TEM00		N/A	63.5 MW/CM2	RESEARCH & OEM
MOLECTRON 450W WATER (H2O)	IIIB	118UM	1.00	3.00	CIRC	100 MW TEM00		N/A	127 MW/CM2	RESEARCH & OEM
MOLECTRON C-250 CARBON DIOXIDE (CO2)	IV	9200 10000	0.800	4.00	CIRC	10.0 W TEM00		N/A	39.7 W/CM2	RESEARCH & OEM
MOLECTRON C-250 CO	IV	5000 5500	0.570	3.00	CIRC	2.00 W TEM00		N/A	15.6 W/CM2	RESEARCH & OEM
MOLECTRON DL-100,200,300,400 N2 FLOWING DYE	IV	740.0	(.1)			1.00MGW PEAK	1.00 P/S 50.0	10.0 NS 15.0	25.9 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
MOLECTRON F-250 HYDROGEN CYANIDE (HCN)	I	337UM	0.800		CIRC	2.00 W PEAK 50.0 UJ	10.0 P/S	40.0 US	102 UJ/CM2 63.5	RESEARCH & OEM
MOLECTRON F-250 WATER (H2O)	I	118UM	0.100		CIRC	10.0 W PEAK 25.0 UJ	10.0 P/S	40.0 US	508 UJ/CM2 31.8	RESEARCH & OEM
MOLECTRON F-250 HYDROGEN CYANIDE (HCN)	IV	337UM	0.800		CIRC	2.00 W TEM00		N/A	2.54 W/CM2	RESEARCH & OEM
MOLECTRON F-450 HYDROGEN CYANIDE (HCN)	IV	337UM	0.800		CIRC	10.0 W TEM00		N/A	12.7 W/CM2	RESEARCH & OEM
MOLECTRON F-450 WATER (H2O)	I	118UM	0.100		CIRC	2.00 MW TEM00		N/A	2.54 MW/CM2	RESEARCH & OEM
MOLECTRON SPECTROSCAN 10 DYE	IV	360.0 740.0	0.030	1.50	CIRC	7.00 KW PEAK 35.0 UJ	10.0 P/S 120	5.00 NS	4.44 MJ/CM2	RESEARCH & OEM
MOLECTRON T-250 CARBON DIOXIDE (CO2)	IV	9200 10700	2.00	7.00	CIRC	500 KW PEAK 100 MJ	50.0 P/S	0.200 US	63.5 MJ/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
MOLECTRON T-250 CO	IIIB	5000 5500	2.00	7.00	CIRC	5.00 KW PEAK 1.00 MJ	50.0 P/S	0.200 US	635 UJ/CM2	RESEARCH & OEM
MOLECTRON T-250 NEON (NE2)	IIIB	3400	0.100 0.300	7.00	CIRC CIRC	100 W PEAK 2.00 MJ	10.0 P/S	0.200 US	2.54 MJ/CM2 254	RESEARCH & OEM
MOLECTRON T-250 ARGON (AR)	IIIB	2200 7300	0.100 0.300	7.00	CIRC CIRC	100 W PEAK 2.00 MJ	10.0 P/S	0.200 US	2.54 MJ/CM2 254	RESEARCH & OEM
MOLECTRON T-250 XENON (XE)	IIIB	2000 3600	0.100 0.300	7.00	CIRC CIRC	100 W PEAK 2.00 MJ	10.0 P/S	0.200 US	2.54 MJ/CM2 254	RESEARCH & OEM
MOLECTRON T-250 13 GASES T-LASER	IIIB	1000 28000	(.1)			1.00 W PEAK 1.00 UJ	50.0 P/S	0.200 US	25.4 UJ/CM2 127	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
MOLECTRON T-250 CARBON DIOXIDE (CO2)	IV	1050 1081				1.00 J MULTI	1.00 P/S 50.0	0.200 US	2.59 J/CM2	RESEARCH & OEM
MOLECTRON UV-300 NITROGEN (N2)	IIIB	337.0	3.20 0.600	1.00 7.00	RECT	300 KW PEAK 4.00 MJ MULTI	1.00 P/S 50.0	0.014 US	2.19 MJ/CM2 2.08	RESEARCH & OEM
MOLECTRON UV-400 NITROGEN (N2)	IIIB	337.0	2.50 0.600	1.00 7.00	CIRC CIRC	600 KW PEAK 6.00 MJ MULTI	50.0 P/S	0.010 US	42.3 MJ/CM2 42.3	RESEARCH & OEM
MOLECTRON UV-600 NITROGEN (N2)	IIIB	337.0	2.50 0.600	1.00 7.00	RECT	600 KW PEAK 6.00 MJ MULTI	1.00 P/S 50.0	0.010 US	4.00 MJ/CM2	RESEARCH & OEM
MOLECTRON UV-1000 NITROGEN (N2)	IV	337.0	2.50 0.600	1.00 7.00	RECT	1.00MW PEAK 10.0 MJ MULTI	1.00 P/S 50.0	0.010 US	6.67 MJ/CM2 6.67	RESEARCH & OEM
MONSANTO ML-1 GA-AS-P	IIIB	860.0	(.1)			2.50 W PEAK	1000 P/S	100 NS	648 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
MONSANTO ML-AI GA-AS-P	IIIB	860.0	(.1)			10.0 W PEAK	1000 P/S	100 NS	2.59 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
MONSANTO ML-2 GA-AS-P	IIIB	860.0	(.1)			2.50 W PEAK	1000 P/S	100 NS	648 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
MONSANTO ML-A2 GA-AS	IIIR	900.0	(.1)			16.0 W PEAK	1000 P/S	150 NS	6.22 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
MONSANTO ML-3 GA-AS	IIIR	900.0	(.1)			4.00 W PEAK	1000 P/S	150 NS	1.56 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
MONSANTO ML-4 GA-AS	IV	900.0				4.00 W PEAK	1000 P/S	150 US	1.56 MJ/CM2	RESEARCH & OEM
MONSANTO MVL-150 GA-AS	II	650.0 TO 830.0				0.500 W PEAK	50.0 P/S	50.0 NS	64.8 NJ/CM2	RESEARCH & OEM
M-O VALVE CO HCN-2175 HYDROGEN CYANIDE (HCN)	I	337.0M	1.00	80.0	CIRC	1.00 MW AVER			1.27 MJ/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
NATIONAL RES GROUP NRG-0.5-5-150 NITROGEN (N2)	IIIB	337.1	2.50	18.0	CIRC	0.500MW PEAK 150 MW AVER	60.0 P/S	5.00 NS	1.02 MJ/CM2	MAT. PROCESSING
NATIONAL RES GROUP NRG-1.0-4-240 NITROGEN (N2)	IIIB	337.1	0.640 2.50	8.00 18.0	RECT	1.00MGW PEAK 240 MW AVER	60.0 P/S	4.00 NS	2.50 MJ/CM2	RESEARCH & OEM
NATIONAL RES GROUP NRG-0.65-8-300 NITROGEN (N2)	IIIB	337.1	0.640 2.50	8.00 18.0	RECT	0.650MGW PEAK 300 MW AVER	60.0 P/S	8.00 NS	3.25 MJ/CM2 3.12	RESEARCH & OEM
NATIONAL RES GROUP NRG-0.9-5-270 NITROGEN (N2)	IIIB	337.1	0.635 0.318	18.0	RECT	900 KW PEAK 300 MW AVER	60.0 P/S	5.00 NS	22.3 MJ/CM2 24.8	MAT. PROCESSING
NATIONAL RES GROUP NRG-0.5-4-120 NITROGEN (N2)	IIIB	337.1	0.640 2.50	8.00 18.0	RECT	0.500MGW PEAK 120 MW AVER	60.0 P/S	4.00 NS	1.25 MJ/CM2	RESEARCH & OEM
NATIONAL RES GROUP NRG-0.35-8-170 NITROGEN (N2)	IIIB	337.1	0.640 2.50	8.00 18.0	RECT	0.350MGW PEAK 170 MW AVER	60.0 P/S	8.00 NS	1.75 MJ/CM2 1.77	RESEARCH & OEM
NATIONAL RES GROUP NRG-0.5-5-150 NITROGEN (N2)	IIIB	337.1	0.635 0.318	18.0	RECT	600 KW PEAK 150 MW AVER	60.0 P/S	5.00 NS	14.9 MJ/CM2 12.4	MAT. PROCESSING
NIHON KK NAL-705B1 HELIUM NEON (HENE)	IIIB	632.8 TO 1153	0.150	1.00	CIRC	5.00 MW TEMOD	N/A		13.0 MJ/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
NIHON KK NAL-705G1 HELIUM NEON (HENE)	IIIB	632.8 TO 1153	0.200	1.00	CIRC	10.0 MW TEM00	N/A		25.9 MW/CM <sup>2</sup>	RESEARCH & OEM
NIHON KK NAL-705H HELIUM NEON (HENE)	IIIB	632.8 TO 1153	0.300	0.750	CIRC	50.0 MW TEM00	N/A		130 MW/CM <sup>2</sup>	RESEARCH & OEM
NIHON KK NAL-705IR HELIUM NEON (HENE)	IIIB	632.8 TO 1153	0.200	1.00	CIRC	8.00 MW TEM00	N/A		20.7 MW/CM <sup>2</sup>	RESEARCH & OEM
NIHON KK NAL-705I2 HELIUM NEON (HENE)	IIIB	632.8	0.150	5.00	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
NIHON KK NAL-705M HELIUM NEON (HENE)	IIIB	632.8 TO 1153	0.300	0.750	CIRC	30.0 MW TEM00	N/A		77.8 MW/CM <sup>2</sup>	RESEARCH & OEM
NIHON KK NAL-711 ARGON (AR)	IIIB	488.0 TO 514.5	0.200	0.750	CIRC	300 MW TEM00	N/A		778 MW/CM <sup>2</sup>	RESEARCH & OEM
NIHON KK NAL-717A HELIUM CADMIUM (HECD)	IIIB	441.6 TO 325.0				10.0 MW TEM00	N/A		1.27 W/CM <sup>2</sup>	RESEARCH & OEM
NIHON KK NAL-716A CARBON DIOXIDE (CO2)	IV	10600	0.600	1.00	CIRC	10.0 W MULTI	N/A		70.5 W/CM <sup>2</sup>	RESEARCH & OEM
NIHON KK NAL-716B CARBON DIOXIDE (CO2)	IV	10600	0.600	1.00	CIRC	30.0 W MULTI	N/A		212 W/CM <sup>2</sup>	RESEARCH & OEM
NIHON KK NAL-728A NITROGEN (N2)	IIIB	337.1	0.200	0.750	CIRC	5.00 KJ PEAK	50.0 TO 60.0 P/S	50.0 NS	15.9 MJ/CM <sup>2</sup>	RESEARCH & OEM
NIHON KK NAL-71652 CARBON DIOXIDE (CO2)	IV	10600	0.500	1.00	CIRC	3.00 W MULTI	N/A		30.5 W/CM <sup>2</sup>	RESEARCH & OEM
NIPPON ELECTRIC GLG-108 HELIUM NEON (HENE)	IIIB	632.8		0.800		50.0 MW TEM00	N/A		130 MW/CM <sup>2</sup>	RESEARCH & OEM
NIPPON ELECTRIC GLG-110 CARBON DIOXIDE (CO2)	IV	10600		5.00		20.0 W MULTI	N/A		2.54 KW/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENFRGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
NIPPON ELECTRIC GLG-2003 ARGON (AR)	IV	457.9 TO 514.5		1.20		1.00 W MULTI		N/A	2.59 W/CM2	RESEARCH & OEM
NIPPON ELECTRIC GLG-2004 HELIUM NEON (HENE)	IIIB	632.8		0.800		1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
NIPPON ELECTRIC GLG-2006 ARGON (AR)	II	457.9 TO 514.5				0.500 MW TEM00		N/A	1.30 MW/CM2	RESEARCH & OEM
NIPPON ELECTRIC GLG-2009 HELIUM NEON (HENE)	II	632.8		0.800		0.500 MW TEM00		N/A	1.30 MW/CM2	RESEARCH & OEM
NIPPON ELECTRIC GLG-2010 HELIUM NEON (HENE)	IIIB	632.8		1.20		3.00 MW TEM00		N/A	7.78 MW/CM2	RESEARCH & OEM
NIPPON ELECTRIC GLG-2012 HELIUM NEON (HENE)	II	632.8		7.00		0.100 MW TEM00		N/A	259 UW/CM2	RESEARCH & OEM
NIPPON ELECTRIC GLG-2013 HELIUM NEON (HENE)	IIIB	632.8		0.800		20.0 MW TEM00		N/A	51.8 MW/CM2	RESEARCH & OEM
NIPPON ELECTRIC GLG-2016 HELIUM NEON (HENE)	IIIB	632.8		1.00		15.0 MW TEM00		N/A	38.9 MW/CM2	RESEARCH & OEM
NIPPON ELECTRIC GLG-2018 HELIUM CADMIUM (HECD)	IIIB	441.6		2.00		50.0 MW MULTI		N/A	130 MW/CM2	RESEARCH & OEM
NIPPON ELECTRIC GLG-2018 HELIUM CADMIUM (HECD)	IIIB	325.0		2.00		10.0 MW MULTI		N/A	1.27 W/CM2	RESEARCH & OEM
NIPPON ELECTRIC GLG-2023 ARGON (AR)	IV	488.0 TO 513.5	0.150	1.00	CIRC	2.00 W TEM00		N/A	5.18 W/CM2	RESEARCH & OEM
NIPPON ELECTRIC GLG-2025 HELIUM NEON (HENE)	IIIB	632.8	0.120	0.800	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
NIPPON ELECTRIC GLG-2026 HELIUM NEON (HENE)	IIIB	632.8	0.120	0.800	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS	
NIPPON ELECTRIC SLG-2007 RUBY	IV	694.3	1.00	3.00	CIRC	1.20 J 40.0 MW PEAK	0.100 P/S	0.030 MS	3.05 J/CM2 3.05 UJ/CM2	RESEARCH & OEM	
NIPPON ELECTRIC SLG-2008 RUBY	IV	694.3	1.00	3.00	CIRC	1.00 J 70.0 MW PEAK	0.100 P/S	15.0 NS	2.54 J/CM2 2.67 NJ/CM2	RESEARCH & OEM	
NIPPON ELECTRIC SLG-2009 RUBY	IV	694.3	1.00	3.00	CIRC	0.800 J 50.0 MW PEAK	0.100 P/S	15.0 NS	2.03 J/CM2 1.90 NJ/CM2	RESEARCH & OEM	
NIPPON ELECTRIC SLG-2011 NEODYMIUM GLASS	IV	1064	1.00	3.00	CIRC	0.600 J 20.0 MW PEAK	0.100 P/S	30.0 NS	1.52 J/CM2 NJ/CM2	RESEARCH & OEM	
NIPPON ELECTRIC SLG-2017 NEODYMIUM YAG (ND YAG)	IV	1064	0.600	7.00	CIRC	20.0 W AVER			51.8 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION	
NIPPON ELECTRIC SLG-2017+SLP2016 NEODYMIUM YAG (ND YAG)	IV	1064	0.600		CIRC	3.00 MJ 30.0 KW PEAK	400 P/S	0.100 MS	7.78 MJ/CM2 7.78 J/CM2	RESEARCH & OEM	
NIPPON ELECTRIC SLG-2017+SLP2017 NEODYMIUM YAG (ND YAG)	IV	1064	0.250		CIRC	4.00 W AVER			10.4 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION	
NEOARK SCIENCE-TEC IIIIB NAL-705B1 HELIUM NEON (HENE)		632.8		1.00		5.00 MW TEM00			N/A	13.0 MW/CM2	RESEARCH & OEM
NEOARK SCIENCE-TEC IIIIB NAL-705M HELIUM NEON (HENE)		632.8		0.750		30.0 MW TEM00			N/A	77.8 MW/CM2	RESEARCH & OEM
NEOARK SCIENCE-TEC IIIIB NAL-705G HELIUM NEON (HENE)		632.8		0.750		10.0 MW TEM00			N/A	25.9 MW/CM2	RESEARCH & OEM
NEOARK SCIENCE-TEC IIIIB NAL-705GI HELIUM NEON (HENE)		632.8		0.750		10.0 MW TEM00			N/A	25.9 MW/CM2	RESEARCH & OEM
NEOARK SCIENCE-TEC IIIIB NAL-705GS HELIUM NEON (HENE)		632.8		0.750		10.0 MW TEM00			N/A	25.9 MW/CM2	RESEARCH & OEM
NEOARK SCIENCE-TEC IIIIB NAL-705I HELIUM NEON (HENE)		632.8		0.750		1.00 MW TEM00			N/A	2.59 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DJA- LENGTH METER (NM) (CM)	DIVER- BEAM GENCE SHAPE (MRAD)	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
NEOARK SCIENCE-TEC NAL-705-12 HELIUM NEON (HENE)	IIIB	632.8	1.00	1.00 MW MULTI		N/A	2.59 MW/CM2	RESEARCH & OEM
NEOARK SCIENCE-TEC NAL-707 RUBY	IV	694.3		10.0MGW PEAK 3.00 J		0.070 MS	1.81 KJ/CM2 7.78 J/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
NEOARK SCIENCE-TEC NAL-716 CARBON DIOXIDE (CO2)	IV	10600	5.00	30.0 W MULTI		N/A	3.81 KW/CM2	RESEARCH & OEM
NEOARK SCIENCE-TEC NAL-717A HELIUM CADMIUM (HECD)	IIIB	441.6	5.00	10.0 MW TEM00		N/A	25.9 MW/CM2	RESEARCH & OEM
OPTICAL COM. PL-100 GA-AS	I	905.0		5.00 W PEAK	10.0 P/S 100 KHZ	12.0 NS	156 NJ/CM2	RESEARCH & OEM
OPTICAL COM PL-200 GA-AS	I	905.0		5.00 W PEAK	20.0 P/S 200 KHZ	6.00 NS	77.8 NJ/CM2	RESEARCH & OEM
OPTICAL COM. PL-500 GA-AS	I	905.0		1.00 W PEAK	50.0 P/S 500 KHZ	12.0 NS	31.1 NJ/CM2	RESEARCH & OEM
OPTICAL COM. PL-1000 GA-AS	I	905.0		1.00 W PEAK	100 P/S 1.00 MHZ	6.00 NS	15.6 NJ/CM2	RESEARCH & OEM
OPTICAL DATA SYST. IIIB 137 HOLOSCAN HELIUM NEON (HENE)	IIIB	632.8	0.050 2.00 CIRC 1.60	2.00 MW TEM00		N/A	5.18 MW/CM2	HOLOGRAPHY
OPTICAL DATA SYST. IIIB 200 HELIUM NEON (HENE)	IIIB	632.8	0.050 1.60 CIRC	2.00 MW		N/A	5.18 MW/CM2	HOLOGRAPHY
OPTICAL DATA 400KA AR-KR	IIIB	476.5 TO 676.4	0.700	0.400 W TEM00		N/A	1.04 W/CM2	RESEARCH & OEM
OPTICAL DATA 500A ARGON (AR)	IIIB	457.9 TO 514.5	1.00	0.500 W TEM00		N/A	1.30 W/CM2	RESEARCH & OEM
OPTICAL DATA 1000A ARGON (AR)	IV	457.9 TO 514.5	0.800	1.00 W TEM00		N/A	2.59 W/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
OPTICAL DATA 2000A ARGON (AR)	IV	457.9 TO 514.5		0.500		2.00 W TEM00		N/A	5.18 W/CM2	RESEARCH & OEM
OPTICAL DATA 4000A ARGON (AR)	IV	457.9 TO 514.5		0.800		4.00 W TEM00		N/A	10.4 W/CM2	RESEARCH & OEM
OPTICAL MASER MKT. 5200 HELIUM NEON (HENE)	IIIB	632.8				1.00 MW		N/A	2.59 MW/CM2	RESEARCH & OEM
OPTICS TECHNOLOGY ION-VI ARGON-PHOTOACOAGUL.	IV	TO 520.0				0.100 W AVER 2.00		10.0 MS 10000	259 MJ/CM2 5.18 J/CM2	MEDICAL
OPTICS TECHNOLOGY M-10 MARK 2 RUBY-PHOTOACOAGUL	IV	694.3	0.200	35.0	CIRC 140	75.0 MJ	5.00 P/S	0.200 MS	194 MJ/CM2	MEDICAL
OPTICS TECHNOLOGY 50 HELIUM NEON (HENE)	II	632.8	0.120	1.50	CIRC	0.500 MW TEM00		N/A	1.30 MW/CM2	MAT. PROCESSING
OPTICS TECHNOLOGY 100 ARGON-CAUTERIZER	IV	TO 514.5				3.00 W AVER		100 MS 1000 S	7.78 J/CM2	MEDICAL
OPTICS TECHNOLOGY 104 HELIUM NEON (HENE)	II	632.8		1.00		0.200 MW TEM00		N/A	518 UW/CM2	RESEARCH & OEM
OPTICS TECHNOLOGY 120 RUBY ND GLASS	IV	694.3 1060	(.1)			0.500 J	3.00 P/M	0.500 MS	1.30 J/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
OPTICS TECHNOLOGY 120 RUBY	IIIB	694.3	0.600	3.00	CIRC	0.100 J MULTI		0.500 MS	259 MJ/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
OPTICS TECHNOLOGY 130 RUBY,ND-GLASS	IV	632.8 1060	1.30	10.0	CIRC	0.100 J MULTI		10.0 MS	150 MJ/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
OPTICS TECHNOLOGY 150 HELIUM NEON (HENE)	IIIB	632.8 1153				3.00 MW		N/A	7.78 MW/CM2	RESEARCH & OEM
OPTICS TECHNOLOGY 150/151 HELIUM NEON (HENE)	IIIB	632.8		1.00		1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE RFP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
OPTICS TECHNOLOGY 170 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	3.00 MW TEM00		N/A	7.78 MW/CM2	HOLOGRAPHY
OPTICS TECHNOLOGY 170/171 HELIUM NEON (HENE)	IIIB	694.3	0.100	1.00	CIRC	3.00 MW		N/A	7.78 MW/CM2	MAT. PROCESSING
OPTICS TECHNOLOGY 181 HELIUM NEON (HENE)	IIIB	632.8				125 MW TEM00 75.0 MW MULTI		N/A	324 MW/CM2 194	RESEARCH & OEM
OPTICS TECHNOLOGY 187 HELIUM NEON (HENE)	IIIB	632.8				125 MW TEM00		N/A	324 MW/CM2	MAT. PROCESSING
OPTICS TECHNOLOGY 190 HELIUM NEON (HENE)	IIIB	632.8	0.200	1.00	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	HOLOGRAPHY
OPTICS TECHNOLOGY 190/191 HELIUM NEON (HENE)	IIIB	632.8		1.00		1.00 MW TEM00		N/A	2.59 MW/CM2	HOLOGRAPHY
OPTICS TECHNOLOGY 192/193 HELIUM NEON (HENE)	IIIB	632.8				1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
OPTICS TECHNOLOGY 195 HELIUM NEON (HENE)	IIIB	632.8	0.150	0.700	CIRC	2.00 MW TEM00		N/A	5.18 MW/CM2	RESEARCH & OEM
OPTICS TECHNOLOGY 210 HELIUM NEON (HENE)	IIIB	1150	0.150	0.150	CIRC	4.00 MW TEM00		N/A	10.4 MW/CM2	RESEARCH & OEM
OPTICS TECHNOLOGY 210 HELIUM NEON (HENE)	IIIB	632.8		0.700		6.00 MW MULTI 3.00 MW TEM00		N/A	15.6 MW/CM2 7.78	RESEARCH & OEM
OPTICS TECHNOLOGY 230 HELIUM NEON (HENE)	IIIB	3390	0.125	1.00	CIRC	7.00 MW AVER		N/A	889 MW/CM2	RESEARCH & OEM
OPTICS TECHNOLOGY 230 HELIUM NEON (HENE)	IIIB	3390	0.125	1.00	CIRC	7.00 MW TEM00		N/A	889 MW/CM2	RESEARCH & OEM
OPTICS TECHNOLOGY 233 HELIUM NEON (HENE)	IIIB	3390	0.125	1.00	CIRC	10.0 MW AVER		N/A	1.27 W/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
OPTICS TECHNOLOGY 233 HELIUM NEON (HENE)	IIIB	3390	1.25	1.25	CIRC	10.0 MW TEM00	N/A		16.3 MW/CM <sup>2</sup>	RESEARCH & DEM
OPTICS TECHNOLOGY 250 HELIUM NEON (HENE)	IIIB	3390	1.50	1.50	CIRC	15.0 MW TEM00	N/A		16.9 MW/CM <sup>2</sup>	RESEARCH & DEM
OPTICS TECHNOLOGY 250 HELIUM NEON (HENE)		TOTAL	0.150	1.00	CIRC	15.0 MW TEM00	N/A			RESEARCH & DEM
OPTICS TECHNOLOGY 1021 HELIUM NEON (HENE)	II	632.8		0.100		0.700 MW TEM00	N/A		1.81 MW/CM <sup>2</sup>	RESEARCH & DEM
OPTIMATIION OPTI-10 RUBY	IV	694.3	0.700	5.00	CIRC	1.00 KW PEAK 10.0 J	1.00 P/S	500 US 1000	2.59 J/CM <sup>2</sup> 7.78	MAT. PROCESSING
OPTIMATIION OPTI-10 NEODYMIUM YAG (ND YAG)	IV	1064	0.600		CIRC	5.00 J	0.500 P/S	560 US	13.0 J/CM <sup>2</sup>	MAT. PROCESSING
OPTIMATIION OPTI-10 NEODYMIUM GLASS	IV	1060	0.600		CIRC	4.00 J	0.500 P/S	560 US	10.4 J/CM <sup>2</sup>	MAT. PROCESSING
OPTIMATIION OPTI-10-T SERIES NEODYMIUM YAG (ND YAG)	IV	1064	0.630	5.00	CIRC	0.200 KW PEAK 10.0 J	30.0 P/S	400 US 560	290 MJ/CM <sup>2</sup> 13.0 J/CM <sup>2</sup>	MAT. PROCESSING
OPTIMATIION OPTI-10-T NEODYMIUM GLASS	IV	1060	0.630	5.00	CIRC	2.00 KW PEAK 10.0 J	30.0 P/S	560 US 800	4.15 J/CM <sup>2</sup> 10.4	MAT. PROCESSING
OPTIMATIION OPTI-10TG NEODYMIUM GLASS		1060	0.600		CIRC		0.500 P/S	800 US 400 560		MAT. PROCESSING INSUFFICIENT INFORMATION
OPTIMATIION OPTI-10TR RUBY	IV	694.3	0.600		CIRC	3.00 J	30.0 P/S 60.0	800 US 400 560	7.78 J/CM <sup>2</sup>	MAT. PROCESSING
OPTIMATIION OPTI-10TY NEODYMIUM YAG (ND YAG)	IV	1064	0.600		CIRC	5.00 J	1.00 P/S	800 US 400 560	13.0 J/CM <sup>2</sup>	MAT. PROCESSING
OPTIMATIION OPTI/30 NEODYMIUM GLASS	IV	1060	0.900		CIRC	50.0 KW PEAK 100 J	1.00 P/S	500 US 700	90.7 J/CM <sup>2</sup> 259	MAT. PROCESSING

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- BEAM GENGE SHAPE (MRAD)	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
OPTIMATION 60 NEODYMIUM YAG (ND YAG)	IV	1064 0.500	CIRC	5.00 W TEM00		N/A	13.0 W/CM2	MAT. PROCESSING
OPTIMATION OPTI-60 SERIES NEODYMIUM YAG (ND YAG)	IV	1064	7.00	3.00 W TEM00 100 W MULTI		N/A	7.78 W/CM2 259	MAT. PROCESSING
OPTIMATION OPTI-60 SERIES NEODYMIUM YAG (ND YAG)	IV	1064	5.00	3.00 W TEM00 100 W MULTI		N/A	7.78 W/CM2 259	RESEARCH & OEM
OPTIMATION OPTI-60 NEW NEODYMIUM YAG (ND YAG)	IV	1064	5.00	100 W MULTI 10.0 W TEM00		N/A	259 W/CM2 25.9	MAT. PROCESSING
OPTIMATION 0.5HENE HELIUM NEON (HENE)	IIIB	632.8 0.080	CIRC	500 MW MULTI		N/A	1.30 W/CM2	RESEARCH & OEM
OPTIMATION 2HENE HELIUM NEON (HENE)	IIIB	632.8 0.080	CIRC	2.00 MW TEM00		N/A	5.18 MW/CM2	RESEARCH & OEM
ORIEL CORP. 6610 HELIUM NEON (HENE)	II	632.8	1.00	0.500 MW TEM00		N/A	1.30 MW/CM2	RESEARCH & OEM
ORIEL CORP. 6611 HELIUM NEON (HENE)	IIIB	632.8 0.120	1.20 CIRC	2.00 MW MULTI		N/A	5.18 MW/CM2	RESEARCH & OEM
ORIEL CORP. 6620 HELIUM NEON (HENE)	IIIB	632.8	1.00	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
ORIEL CORP. 6680 HELIUM NEON (HENE)	IIIB	632.8 0.010	0.500 CIRC	2.00 MW		N/A	5.18 MW/CM2	RESEARCH & OEM
ORLANDO RESEARCH AB-20 AR-KR	IV	476.0 0.180 514.0	1.00 CIRC	20.0 W MULTI		N/A	51.8 W/CM2	RESEARCH & OEM
ORLANDO RESEARCH 300 ARGON (AP)	IIIB	487.9 0.200 514.5	CIRC	50.0 W		N/A	130 MW/CM2	RESEARCH & OEM
ORLANDO RESEARCH 400 AR-KR		476.0 0.180 514.0	1.00 CIRC			N/A		RESEARCH & OEM INSUFFICIENT INFORMATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
ORLANDO RESEARCH 700 ARGON (AR)	IIIB	487.9				0.100 W		N/A	259 MW/CM <sup>2</sup>	RESEARCH & OEM
ORLANDO RESEARCH 800 AR-KR		476.0 TO 514.0	0.180		1.00 CIRC			N/A		RESEARCH & OEM INSUFFICIENT INFORMATION
PASCO SCIENTIFIC QS-9101 HELIUM NEON (HENE)	II	632.8	0.100	0.800	CIRC	0.500 MW TEM00		N/A	1.30 MW/CM <sup>2</sup>	RESEARCH & OEM
PEK LABS INC. LT-11 HELIUM NEON (HENE)	IIIB	632.8				5.00 MW		N/A	13.0 MW/CM <sup>2</sup>	RESEARCH & OEM
PERKIN ELMER 110 HELIUM NEON (HENE)	IIIB	632.8	0.400	0.150	CIRC	3.00 MW		N/A	7.78 MW/CM <sup>2</sup>	RESEARCH & OEM
PERKIN ELMER 5000 LASERGAGE HELIUM NEON (HENE)	II	632.8	1.00		CIRC	0.250 MW AVER		N/A	635 UW/CM <sup>2</sup>	DIST. METER
PERKIN ELMER 5200 HELIUM NEON (HENE)	IIIB	632.8 1150 3390	1.00	0.500	CIRC	1.30 MW TEM00		N/A	3.30 MW/CM <sup>2</sup>	RESEARCH & OEM
PERKIN ELMER 75 HELIUM NEON (HENE)	IIIB	632.8	0.200	0.400	CIRC	1.00 MW		N/A	2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
PERKIN ELMER 5203 HELIUM NEON (HENE)	IIIB	632.8	0.200	0.500	CIRC	1.50 MW TEM00		N/A	3.89 MW/CM <sup>2</sup>	RESEARCH & OEM
PERKIN ELMER 5230 HELIUM NEON (HENE)	IIIB	632.8 1150 3390	1.50	0.350	CIRC	3.50 MW TEM00		N/A	3.95 MW/CM <sup>2</sup>	RESEARCH & OEM
PERKIN ELMER 5300 HELIUM NEON (HENE)	IIIB	632.8				15.0 MW MULTI 10.0 MW TEM00		N/A	38.9 MW/CM <sup>2</sup> 25.9	RESEARCH & OEM
PERKIN ELMER 5200/5202 HELIUM NEON (HENE)	IIIB	632.8	0.200	0.500	CIRC	1.50 MW TEM00		N/A	3.89 MW/CM <sup>2</sup>	RESEARCH & OEM
PERKIN ELMER 5200/5201 HELIUM NEON (HENE)	II	632.8	0.200	0.500	CIRC	0.500 MW TEM00		N/A	1.30 MW/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
PERKIN ELMER 5650 HELIUM NEON (HeNe)	IIIB	632.8	1.00	0.200	CIRC	1.00 MW TEM00	N/A		2.54 MW/CM2	DIST. METER AUTO REFLECTING TOOLING LASER
PERKIN ELMER 5700 HELIUM NEON (HeNe)	II	632.8				0.500 MW	N/A		1.30 MW/CM2	RESEARCH & OEM
PERKIN ELMER 5800 HELIUM NEON (HeNe)	II	632.8	0.100		CIRC	0.250 MW TEM00	N/A		648 UW/CM2	RESEARCH & OEM
PERKIN ELMER 5950 HELIUM NEON (HeNe)	IIIB	632.8	0.300	0.700	CIRC	10.0 MW MULTI	N/A		25.9 MW/CM2	RESEARCH & OEM
PERKIN ELMER 6000 HELIUM NEON (HeNe)	IIIB	632.8				1.50 MW TEM00	N/A		3.89 MW/CM2	RESEARCH & OEM
PERKIN ELMER 5900 LASER GAGE HELIUM NEON (HeNe)	II	632.8	1.00		CIRC	0.250 MW TEM00	N/A		635 UW/CM2	RESEARCH & OEM
PERKIN ELMER 6200 CARBON DIOXIDE (CO2)	IV	10600	1.02		CIRC	40.0 W MULTI	N/A		97.6 W/CM2	RESEARCH & OEM
PERKIN ELMER 6200 CARBON DIOXIDE (CO2)	IV	10600	1.00		CIRC	40.0 W AVER			102 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
PERKIN ELMER INF-1 HELIUM NEON (HeNe)		632.8	1.02		CIRC		N/A			DIST. METER INSUFFICIENT INFORMATION
PHASE-R CUSTOM ORGANIC DYES	IV	580.0 TO 650.0	2.20	6.00	CIRC	10.0 MGW PEAK	0.100 P/S	600 NS	3.15 J/CM2	RESEARCH & OEM
PHASE-R CUSTOM-HE DYE	IV	220.0 TO 980.0				100 J	0.167 P/S	0.300 US	12.7 KJ/CM2	RESEARCH & OEM
PHASE-R CUSTOM-HR DYE		440.0 TO 750.0					100 P/S			RESEARCH & OEM INSUFFICIENT INFORMATION
PHASE-R DL-32 ORGANIC DYES	IV	380.0 TO 750.0	0.500	2.00	CIRC	10.0 KW PEAK	50.0 P/S	250 NS	25.4 MJ/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAO)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
PHASE-R DL-1000 ORGANIC DYES	IV	410.0 TO 750.0	1.00	3.00	CIRC	0.500MGW PEAK	0.170 P/S	450 NS	571 MJ/CM2	RESEARCH & OEM
PHASE-R DL-1080 DYE	IV	220.0 TO 950.0	1.00	3.00	CIRC	1.00MGW PEAK 0.500 J	0.100 P/S	0.400 US	1.02 J/CM2 1.27	RESEARCH & OEM
PHASE-R DL-1100 ORGANIC DYES	IV	220.0 TO 960.0	1.00	3.00	CIRC	1.00MGW PEAK	1.00 P/S	450 NS	1.14 J/CM2	RESEARCH & OEM
PHASE-R DL-1200 ORGANIC DYES	IV	220.0 TO 860.0	1.00	3.00	CIRC	0.500MGW PEAK	10.0 P/S	350 NS	444 MJ/CM2	RESEARCH & OEM
PHASE-R DL-2100 ORGANIC DYES	IV	440.0 TO 740.0	1.50	5.00	CIRC	4.00MGW PEAK	0.500 P/S	600 NS	2.71 J/CM2	RESEARCH & OEM
PHASE-R DL-2100 DYE	IV	220.0 TO 950.0	1.00 2.20	3.00	CIRC CIRC	20.0MGW PEAK 10.0 J	1.00 P/S	0.300 US	15.2 J/CM2 5.25	RESEARCH & OEM
PHASE-R DLSP DYE		518.0 TO 615.0				10.0 W PEAK				RESEARCH & OEM INSUFFICIENT INFORMATION
PHASE-R N21K NITROGEN (N2)	IIIB	337.1	0.200	3.00	CIRC	1.00 KW PEAK 3.00 UJ MULTI	20.0 P/S	0.003 US	190 UJ/CM2 190	RESEARCH & OEM
PHASE-R N-21-K NITROGEN (N2)	IIIB	337.1	0.200	1.00	CIRC	1.00 KW PEAK	20.0 P/S	3.00 NS	190 UJ/CM2	RESEARCH & OEM
PHASE-R N-250 NITROGEN (N2)	IIIB	337.1	0.200	1.00	CIRC	1.00 KW PEAK	20.0 P/S	3.00 NS	190 UJ/CM2	RESEARCH & OEM
PHASE-R SPECIAL ORGANIC DYE	IV	580.0 TO 610.0				10.0 J	1.00 P/S		25.9 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
PHOTOBELL SERIES LP CUSTOM GA-AS	IV	905.0		10.0		10.0 W PEAK	100 P/S 10.0 KHZ	10.0 MS 100	2.59 J/CM2	RESEARCH & OEM
PHOTONIC AR-100 HELIUM NEON (HENE)	IIIB	632.8	0.200	0.400	CIRC	1.00 MW MULTI	N/A		2.59 MW/CM2	RESEARCH & OEM



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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSF WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
PHOTON SOURCES 200 CARBON DIOXIDE (CO2)	IV	10600	0.566	2.00	CIRC	20.00W		N/A	159 W/CM2	RESEARCH & OEM NO LONGER MANU- FACTURED
PHOTON SOURCES 275 CARBON DIOXIDE (CO2)	IV	10600	0.760	1.80	CIRC	350 W AVER	1.00 KHZ	100 US	1.54 J/CM2	RESEARCH & OEM
PHOTON SOURCES 300 CARBON DIOXIDE (CO2)	IV	10600	1.10	1.35	CIRC	375 W TEM00		N/A	787 W/CM2	RESEARCH & OEM
PHOTON SOURCES 442 CO2-PERFORATOR	IV	ENCL 10600	0.350		CIRC	100 W 75.0 J AVER	120 P/S	50.0 US	17.3 J/CM2 1.55 KJ/CM2	MAT. PROCESSING CLASS I AS ENCLOSED
PHOTON SOURCES 500 CARBON DIOXIDE (CO2)	IV	10600	0.960	1.45	CIRC	500 W TEM00		N/A	1.38 KW/CM2	RESEARCH & OEM
PHOTON SOURCES 1000 CARBON DIOXIDE (CO2)	IV	10600	0.880	1.55	CIRC	1000 W TEM00		N/A	3.28 KW/CM2	RESEARCH & OEM
PLASMA SYSTEMS ODL VARIOUS		300.0 TO 600.0					2.00 P/S	1.00 MS		RESEARCH & OEM INSUFFICIENT INFORMATION
PLASMA SYSTEMS MIN-2 HELIUM NEON (HENE)	II	632.8	0.200	1.20	CIRC	0.500 MW MULTI		N/A	1.30 MW/CM2	RESEARCH & OEM
PLASMA SYSTEMS MIN-3 HELIUM NEON (HENE)	II	632.8	0.200	1.20	CIRC	0.100 MW		N/A	259 UW/CM2	RESEARCH & OEM
PLASMA SYSTEMS MIN-10 HELIUM NEON (HENE)	II	632.8	0.200	1.20	CIRC	0.500 MW MULTI		N/A	1.30 MW/CM2	RESEARCH & OEM
PLESSY TELLUROMETER MA100 GA-AS		930.0		4.20			75.0 MHZ			DIST. METER INSUFFICIENT INFORMATION
PRECISION INSTRUME UNICON 690 ARGON (AR)	IV	ENCL 514.5	0.130	0.500	CIRC	600 MW		N/A	1.56 W/CM2	RESEARCH & OEM CLASS I AS ENCLOSED
PSR INC. NONE HELIUM NEON (HENE)	IIIB	632.8	0.200		CIRC	2.00 MW AVER		N/A	5.18 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
PSR INC 30 HELIUM NEON (HENE)	IIIB	632.8	0.200		CIRC	2.00 MW MULTI		N/A	5.18 MW/CM2	RESEARCH & OEM
PTAG INTERNATIONAL FL 25-1 DYE		420.0 TO 680.0		1.50		1.00 KW PEAK	15000 P/S			RESEARCH & OEM INSUFFICIENT INFORMATION
PRINTING DEVEL INC MRD SCANNER ARGON (AR)	IIIB ENCL	514.5 488.0				15.0 MW		N/A	38.9 MW/CM2	MAT. PROCESSING CLASS I AS ENCLOSED
QUANTA-DYNE PT ARGON (AR)	IIIB	488.0 TO 514.5	0.700	0.100	CIRC	10.0 MW TEM00		N/A	25.9 MW/CM2	RESEARCH & OEM
QUANTA/DYNE PT ARGON (AR)	IV	488.0 TO 514.5	0.700	0.100	CIRC	100 W AVER	100 P/S	100 US	2.59 J/CM2	RESEARCH & OEM
QUANTA/DYNE Q4001 HELIUM NEON (HENE)	IIIB	632.8				10.0 MW		N/A	25.9 MW/CM2	RESEARCH & OEM
QUANTA/DYNE Q-4001 HELIUM NEON (HENE)	IIIB	632.8				10.0 MW		N/A	25.9 MW/CM2	RESEARCH & OEM
QUANTA/DYNE Q-6328B HELIUM NEON (HENE)	IIIB	632.8				10.0 MW		N/A	25.9 MW/CM2	RESEARCH & OEM
QUANTA/DYNE Q-6328-B HELIUM NEON (HENE)	IIIB	632.8				10.0 MW		N/A	25.9 MW/CM2	RESEARCH & OEM
QUANTUM PHYSICS LS-30 HELIUM NEON (HENE)	II	632.8	0.200	0.700	CIRC	0.750 MW TEM00		N/A	1.94 MW/CM2	RESEARCH & OEM
QUANTUM PHYSICS LS-32 HELIUM NEON (HENE)	IIIB	632.8	0.200	0.400	CIRC	2.50 MW TEM00		N/A	6.48 MW/CM2	RESEARCH & OEM
QUANTUM-PHYSICS LS-33 HELIUM NEON (HENE)	IIIB	632.8		3.00		1.00 MW		N/A	2.59 MW/CM2	RESEARCH & OEM
QUANTUM PHYSICS LS-130 HELIUM NEON (HENE)	IIIB	632.8	1.40	0.700	CIRC	2.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
QUANTUM-PHYSICS 302-B HELIUM NEON (HENE)	IIIB	632.8	0.120	3.00	CIRC	3.00 MW MULTI 1.50 MW TEMPO	N/A		7.78 MW/CM2 3.89	RESEARCH & OEM
QUANTUM-PHYSICS 303-B14 HELIUM NEON (HENE)	IIIB	632.8	0.100	3.30	CIRC	5.00 MW MULTI 2.00 MW TEMPO	N/A		13.0 MW/CM2 5.18	RESEARCH & OEM
QUANTUM-PHYSICS 303-B18 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.50	CIRC	8.00 MW MULTI 4.00 MW TEMPO	N/A		20.7 MW/CM2 10.4	RESEARCH & OEM
QUANTUM-PHYSICS 303-B18 HELIUM NEON (HENE)	IIIB	1150	0.120	3.00	CIRC	2.00 MW MULTI	N/A		5.18 MW/CM2	RESEARCH & OEM
QUANTUM-PHYSICS 303-B18 HELIUM NEON (HENE)	IIIB	1150	0.180	3.00	CIRC	5.00 MW MULTI	N/A		13.0 MW/CM2	RESEARCH & OEM
QUANTUM-PHYSICS 310-B HELIUM NEON (HENE)	IIIB	632.8	0.120	1.50	CIRC	15.0 MW TEMPO	N/A		38.9 MW/CM2	RESEARCH & OEM
QUANTUM-PHYSICS 500 NEODYMIUM YAG (ND YAG)	IV	1064	0.250	3.00	CIRC	3.00 W CW 0.300 W AVER	1000 P/S	150 NS	7.78 W/CM2 778 UJ/CM2	RESEARCH & OEM
QUANTUM-PHYSICS 520 NEODYMIUM YAG (ND YAG)	IV	1064	0.400	3.00	CIRC	20.0 W AVER 2.00 W TEMPO	1000 P/S	150 NS	51.8 MJ/CM2 5.18	RESEARCH & OEM
QUANTUM-PHYSICS MINIATUREIZED HC-N HELIUM NEON (HENE)	IIIB	632.8				1.00 MW MULTI	N/A		2.59 MW/CM2	RESEARCH & OEM
QUANTEL NO MODEL NO RUBY	IV	694.3				10.0 J TEMPO	0.200 P/S 0.017	1.50 MS 25.0	25.9 J/CM2	RESEARCH & OEM
QUANTEL NO MODEL NO RUBY	IV	694.3				2.00 J TEMPO	0.200 P/S 0.017	30.0 US 1.00 MS	5.18 J/CM2	RESEARCH & OEM
QUANTEL NO MODEL NO YAG+GLASS	IV	1060	(.1)			50.0 MJ TEMPO	1.00 TO 0.008 P/S	15.0 NS 250	130 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
QUANTEL NO MODEL NO YAG+GLASS	IIIB	1060	(.1)			10.0 MJ TEMPO	1.00 P/S	300 US	25.9 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
QUANTEL HR-18 RUBY	IV	694.3	(.1)			25.0 MJ TEM00	0.033 P/S	15.0 NS 20.0	64.8 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
QUANTEL HR-28 RUBY	IV	694.3				1.00 J TEM00	0.033 P/S	15.0 NS 20.0	2.59 J/CM2	RESEARCH & OEM
QUANTEL HR-38 RUBY	IV	694.3				4.00 J TEM00	0.033 P/S	15.0 NS 20.0	10.4 J/CM2	RESEARCH & OEM
QUANTRAD 71 KRYPTON (KR)	IV	476.2 TO 676.4	0.240	5.50	CIRC	1.50 W AVER	60.0 P/S	40.0 US	64.8 MJ/CM2	RESEARCH & OEM
QUANTRAD 71 ARGON (AR)	IV	457.9 TO 514.5	0.240	2.50 5.00	CIRC	3.00 W AVER 120 UJ	60.0 P/S	40.0 US	130 MJ/CM2 311 UJ/CM2	RESEARCH & OEM
QUANTRAD 71AR ARGON (AR)	IIIB	457.9 TO 514.5	0.240	7.50	CIRC	40.0 UJ TEM00 120 UJ MULTI	60.0 P/S	40.0 US	104 UJ/CM2 311	RESEARCH & OEM
QUANTRAD 71KR KRYPTON (KR)	IIIB	476.2 TO 676.4	0.240	7.00	CIRC	20.0 UJ TEM00 60.0 UJ MULTI	60.0 P/S	40.0 US	51.8 UJ/CM2 156	RESEARCH & OEM
QUANTRAD 83 XENON (XE)	IIIB	495.5 TO 539.8	0.240	2.50	CIRC	300 W PEAK 30.0 UJ	10.0 P/S	0.300 US	233 UJ/CM2 77.8	RESEARCH & OEM
QUANTRAD 93 ARGON (AR)	IV	457.9 TO 514.5	0.250	5.00	CIRC	2.50 W AVER	1.00 P/S 60.0 P/S	10.0 US	6.48 J/CM2 108 MJ/CM2	RESEARCH & OEM
QUANTRAD 83UV XENON (XE)	IIIB	364.5	0.240	5.00	CIRC	100 W PEAK 50.0 UJ TEM00	10.0 P/S	1.00 US	4.41 MJ/CM2 2.20	RESEARCH & OEM
QUANTRAD 110 XENON TRIMMER	IIIB	364.5	(.1)			300 W PEAK	65.0 TO 200 P/S	300 NS 500	19.0 MJ/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
QUANTRAD 127A NEODYMIUM YAG (ND YAG)	IV	1064				1.50 KW PEAK 5.00 KW AVER	1.00 TO 100.00 P/S		13.0 KW/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
QUANTRAD 120D HOLOGRAPHY RUBY	IV	694.3	0.500 1.40		CIRC CIRC	1.00 J TEM00	0.033 P/S	0.200 US 150	2.59 J/CM2	HOLOGRAPHY

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
QUANTRAD 1200 RUBY-HOLOCAMERA	IV	694.3	0.635	3.00	CIRCO	0.300 J MULTI	1.00 P/M 10.0	100 NS 150	778 MJ/CM2	HOLOGRAPHY
QUANTRAD 1200M RUBY-HOLOCAMERA	IV	694.3	0.635	3.00	CIRCO	0.300 J MULTI	10.0 P/M	100 NS 150	778 MJ/CM2	HOLOGRAPHY
QUANTRAD 1200M-SPECIAL RUBY-HOLOCAMERA	IV	694.3	0.635	3.00	CIRC	1.00 J MULTI	10.0 P/M	5.00 NS 120	2.59 J/CM2	HOLOGRAPHY
QUANTRAD 1282B RUBY-HOLOGRAPHY	IV	694.3	(.1)			300 MJ TEM00	2.00 P/M	20.0 NS 50.0	778 MJ/CM2	HOLOGRAPHY PROVISIONAL -OSHA- CLASSIFICATION
QUANTRAD 7500-A,B,C XENON-MASKSAVER	IIIB	495.5 TO 539.8	(.1)			300 W PEAK	2.00 TO 15.0 P/S	0.500 US	389 UJ/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
QUANTRONIX 110 NEODYMIUM YAG (ND YAG)	IV	1064	0.400	10.0	CIRC	15.0 W AVER			38.9 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
QUANTRONIX 111 NEODYMIUM YAG (ND YAG)	IV	1064		5.00		15.0 W AVER			38.9 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
QUANTRONIX 112 NEODYMIUM YAG (ND YAG)	IV	1064	0.400	5.00	CIRC	2.50 MJ 2.00 W AVER	50.0 KHZ	300 US	6.48 MJ/CM2 104 UJ/CM2	RESEARCH & OEM
QUANTRONIX 112-1 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	5.00	CIRC	1.50 W TEM00 17.0 W MULTI		N/A	3.89 W/CM2 44.1	RESEARCH & OEM
QUANTRONIX 112-3 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	5.00	CIRC	1.50 W TEM00 17.0 W MULTI		N/A	3.89 W/CM2 44.1	RESEARCH & OEM
QUANTRONIX 112/113 NEODYMIUM YAG (ND YAG)	IV	1064		4.00		50.0 KW PEAK	100 KHZ	50.0 NS 500	64.8 MJ/CM2	RESEARCH & OEM
QUANTRONIX 113-1 NEODYMIUM YAG (ND YAG)	IV	1064		7.00		5.00 W AVER 70.0 W MULTI			13.0 W/CM2 181	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
QUANTRONIX 113-2 NEODYMIUM YAG (ND YAG)	IV	1064		7.00		7.00 W TEM00 110 W MULTI		N/A	18.1 W/CM2 285	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
QUANTRONIX 114-1 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	5.00	CIRC	6.00 W TEM00 40.0 W	N/A		15.6 W/CM2 104	RESEARCH & OEM
QUANTRONIX 114-2 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	5.00	CIRC	9.00 W TEM00 100 W MULTI	N/A		23.3 W/CM2 259	RESEARCH & OEM
QUANTRONIX 114-3 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	5.00	CIRC	6.00 W TEM00 40.0 W MULTI	N/A		15.6 W/CM2 104	RESEARCH & OEM
QUANTRONIX 114-6 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	5.00	CIRC	9.00 W TEM00 100 W MULTI	N/A		23.3 W/CM2 259	RESEARCH & OEM
QUANTRONIX 114-20 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	5.00	CIRC	16.0 W TEM00	N/A		41.5 W/CM2	RESEARCH & OEM
QUANTRONIX 114-21 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	5.00	CIRC	16.0 W TEM00	N/A		41.5 W/CM2	RESEARCH & OEM
QUANTRONIX 115-10 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	5.00	CIRC	2.00 W TEM00	N/A		5.18 W/CM2	RESEARCH & OEM
QUANTRONIX 120-1/10 NEODYMIUM YAG (ND YAG)	IIIB	1064	0.090	1.50	CIRC	100 MW CW	2.00 KHZ	0.400 US	259 MW/CM2	RESEARCH & OEM
QUANTRONIX 120-2/20 NEODYMIUM YAG (ND YAG)	IIIB	1064	0.090	1.50	CIRC	100 MW CW	2.00 KHZ	0.400 US	259 MW/CM2	RESEARCH & OEM
QUANTRONIX 120-3/30 NEODYMIUM YAG (ND YAG)	IIIB	1064	0.090	1.50	CIRC	100 MW CW	2.00 KHZ	0.400 US	259 MW/CM2	RESEARCH & OEM
QUANTRONIX 120-4/40 NEODYMIUM YAG (ND YAG)	IIIB	1064	0.090	1.50	CIRC	100 MW CW	2.00 KHZ	0.400 US	259 MW/CM2	RESEARCH & OEM
QUANTRONIX 120-5/50 NEODYMIUM YAG (ND YAG)	IIIB	1064	0.090	1.50	CIRC	100 MW CW	2.00 KHZ	0.400 US	259 MW/CM2	RESEARCH & OEM
QUANTRONIX 120-6/60 NEODYMIUM YAG (ND YAG)	IIIB	1064	0.090	1.50	CIRC	100 MW CW	2.00 KHZ	0.400 US	259 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
QUANTRONIX 120-7/7Q NEODYMIUM YAG (ND YAG)	IIIB	1064	0.090	1.50	CIRC	100 MW CW	2.00 KHZ	0.400 US	259 MW/CM2	RESEARCH & OEM
QUANTRONIX 601/602 NEODYMIUM YAG (ND YAG)	IV	1064				2.00 W TEM00			5.18 W/CM2	MAT. PROCESSING
QUANTRONIX 603-1 LASERSCRIBE NEODYMIUM YAG (ND YAG)	IV	1064				2.00 W AVER			5.18 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
QUANTRONIX 700/701 NEODYMIUM YAG (ND YAG)	IV	1064	0.350	3.50	CIRC	2.00 W TEM00			5.18 W/CM2	MAT. PROCESSING
QUANTRONIX MIRT-801 NEODYMIUM YAG (ND YAG)	IIIB	1064	(.1)			50.0 UJ	0.500 TO 15.0 P/S	500 NS	130 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
QED CORP. HE-029 HELIUM CADMIUM (HECD)	IIIB	441.8		1.00		50.0 MW MULTI			130 MW/CM2	RESEARCH & OEM
QED CORP. HE-030 HELIUM CADMIUM (HECD)	IIIB	325.0		1.00		5.00 MW MULTI			635 MW/CM2	RESEARCH & OEM
QED CORP. IR-10 CARBON DIOXIDE (CO2)	IV	9200 TO 11000	0.600	4.00	CJPC	5.00 W TEM00			35.3 W/CM2	RESEARCH & OEM
QED CORP. IR-11 CARBON DIOXIDE (CO2)	IV	9200 TO 11000	0.600	4.00	CTRC	10.0 W TEM00			70.5 W/CM2	RESEARCH & OEM
QED CORP. IR-15 CO	IV	5200 TO 5700	0.500	3.00	CIRC	1.00 W TEM00			10.2 W/CM2	RESEARCH & OEM
QED CORP. IR-18 CARBON DIOXIDE (CO2)	IV	10600	0.600	4.00	CIRC	10.0 W TEM00			70.5 W/CM2	RESEARCH & OEM
QED CORP. IR-19 CARBON DIOXIDE (CO2)	IV	10600	0.800	5.00	CIRC	50.0 W TEM00			198 W/CM2	RESEARCH & OEM
QED CORP. IR-20 CARBON DIOXIDE (CO2)	IV	10600	0.800	5.00	CIRC	100 W TEM00			397 W/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- GENCE (MRAO)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
QED CORP. IR-25 CO	IV	5600 0.600	2.00	CIRC	5.00 W TEM00			35.3 W/CM2	RESEARCH & OEM
QED CORP. IR-26 N20	IV	1050 0.600	4.00	CIRC	5.00 W TEM00			13.0 W/CM2	RESEARCH & OEM
QED CORP. IR-30 CARBON DIOXIDE (CO2)		10600							RESEARCH & OEM INSUFFICIENT INFORMATION
QED CORP. PIR-031 CARBON DIOXIDE (CO2)	IV	9200 TO 11000	2.00	10.0 CIRC	1.00 J MULTI	50.0 P/S	0.150 US	635 MJ/CM2	RESEARCH & OEM
QED CORP. PIR-032 CO	IV	5200 TO 5700	2.00	10.0 CIRC	1.00 J MULTI	50.0 P/S	0.150 US	635 MJ/CM2	RESEARCH & OEM
QED CORP. PIR-033 N20	IV	1050	2.00	10.0 CIRC	1.00 J MULTI	50.0 P/S	0.150 US	635 MJ/CM2	RESEARCH & OEM
QED CORP. PIR-034 NITROGEN (N2)	IIIB	337.1 TO 350.0	2.00	10.0 CIRC	1.00 MJ MULTI	50.0 P/S	0.150 US	635 UJ/CM2	RESEARCH & OEM
QED CORP. PIR-035 ARGON (AR)	IIIB	120.0 TO 730.0	2.00	10.0 CIRC	0.100 MJ MULTI	50.0 P/S	0.150 US	63.5 UJ/CM2	RESEARCH & OEM
QED CORP. PIR-036 XENON (XE)	IIIB	200.0 TO 360.0	2.00	10.0 CIRC	0.100 MJ MULTI	50.0 P/S	0.150 US	63.5 UJ/CM2	RESEARCH & OEM
QED CORP. SFD-53 YAG-LIN303	IIIB	530.0 0.500	3.00	CIRC	5.00 MW AVER	20.0 P/S	200 NS	648 UJ/CM2	RESEARCH & OEM
QED CORP. SM-19 HYDROGEN CYANIDE (HCN)	IIIB	337UM	1.00	20.0 CIRC	0.100 W TEM00			127 MW/CM2	RESEARCH & OEM
QED CORP. SM-019 HYDROGEN CYANIDE (HCN)	IIIB	337UM			100 MW TEM00			127 MW/CM2	RESEARCH & OEM
QED CORP. SM-20 WATER (H2O)	I	118UM 0.500	10.0	CIRC	1.00 MW TEM00			1.27 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
QED CORP. VL-020 HELIUM NEON (HENE)	II	632.8		1.20		0.300 MW MULTI		N/A	778 W/CM2	RESEARCH & DEM
QED CORP. VL-021 HELIUM NEON (HENE)	IIIB	632.8		0.800		10.0 MW TEM00		N/A	25.9 MW/CM2	RESEARCH & DEM
RADIATION PHYSICS RP1-25 HELIUM NEON (HENE)	IIIB	632.8 TO 3390				6.00 MW MULTI		N/A	762 MW/CM2	RESEARCH & DEM
RADIATION PHYSICS RP1-75 HELIUM NEON (HENE)	IIIB	632.8 TO 3390				15.0 MW MULTI		N/A	1.90 W/CM2	RESEARCH & DEM
RADIATION PHYSICS RP1-100SA ARGON (AR)	IIIB	488.0				250 MW MULTI		N/A	648 MW/CM2	RESEARCH & DEM
RADIATION PHYSICS RP1-100-10.6 CO2,N2,HE	IV	10600				150 W MULTI		N/A	19.0 KW/CM2	RESEARCH & DEM
RANK PRECISION IND 3000 IMAG.ANALYZER HE-NE 132M	IIIB	632.8	0.071	5.00	CIRC	3.50 MW MULTI		N/A	9.07 MW/CM2	SCIENTIFIC INSTR.
RAYTHEON PYQ-1 NEODYMIUM YAG (ND YAG)	IV	1064		3.00		0.500MGW PEAK 0.100 J	10.0 P/S	10.0 NS	13.0 MJ/CM2 259	RESEARCH & DEM
RAYTHEON LG-G HELIUM NEON (HENE)	IIIB	632.8				50.0 MW MULTI 20.0 MW TEM00		N/A	130 MW/CM2 51.8	RESEARCH & DEM
RAYTHEON CY-1 NEODYMIUM YAG (ND YAG)	IV	1064		5.00		1.00 W TEM00		N/A	2.59 W/CM2	RESEARCH & DEM
RAYTHEON LCW3-1 NEODYMIUM YAG (ND YAG)	IV	1064		6.00		8.00 W AVER			20.7 W/CM2	RESEARCH & DEM PROVISIONAL -OSHA- CLASSIFICATION
RAYTHEON LET RUBY	IV	694.3				50.0 W AVER	60.0 TO 180 P/M	1.00 MS 3.00	130 J/CM2	RESEARCH & DEM
RAYTHEON LHO1B RUBY	IIIB	694.3	(.1)			35.0 J PEAK	2.00 P/M	600 NS	54.4 UJ/CM2	RESEARCH & DEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAO)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
RAYTHEON RSL-1 GA-AS		840.0				1.00 W PEAK				RESEARCH & OEM INSUFFICIENT INFORMATION
RAYTHEON LCW3 NEODYMIUM YAG (ND YAG)	IV	1064				1.00 KW PEAK	5000 P/S	150 NS	389 UJ/CM2	RESEARCH & OEM
RAYTHEON LCW3-2 NEODYMIUM YAG (ND YAG)	IV	1064		10.0		12.0 W AVER			31.1 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RAYTHEON CY-3 NEODYMIUM YAG (ND YAG)	IV	1064	0.100		CIRC	3.00 W TEM00 10.0 W MULTI			7.78 W/CM2 25.9	RESEARCH & OEM
RAYTHEON CY0-3 NEODYMIUM YAG (ND YAG)	IV	1064	1.50	1.00	CIRC	2.00 MJ TEM00	5000 P/S	0.300 US 0.500	2.26 MJ/CM2	RESEARCH & OEM
RAYTHEON CY0-3 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	1.00	CIRC	2.00 KW PEAK 2.00 MJ	5000 P/S	0.300 US 0.500	2.59 MJ/CM2 5.18	RESEARCH & OEM
RAYTHEON LCW4 NEODYMIUM YAG (ND YAG)	IV	1064				0.750 W MULTI			1.94 W/CM2	RESEARCH & OEM
RAYTHEON LE4 RUBY	IV	694.3				4.00 J	60.0 P/M 120	1.00 MS	10.4 J/CM2	RESEARCH & OEM
RAYTHEON LCW3-Q5 NEODYMIUM YAG (ND YAG)	IV	1064		2.50		3.00 W AVER			7.78 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RAYTHEON LH-5 RUBY Q-SW	IV	694.3	2.20		CIRC	8.00 J		20.0 NS	4.20 J/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RAYTHEON RSL-5 GA-AS		840.0				5.00 W PEAK				RESEARCH & OEM INSUFFICIENT INFORMATION
RAYTHEON LH-6 RUBY	IV	694.3	0.950		CIRC	2.00 J TEM00		1.00 MS	5.18 J/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RAYTHEON IAL-6 IN-AS	IIIB	3140	1.90	260	CIPCO	0.060 MJ 520	200 P/S	30.0 NS	42.2 UJ/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
RAYTHEON LG-10 HELIUM NEON (HENE)	IIIB	632.8				100 MW		N/A	259 MW/CM2	RESEARCH & OEM
RAYTHEON LG-12K KRYPTON (KR)	IIIB	647.1				250 MW MULTI		N/A	648 MW/CM2	RESEARCH & OEM
RAYTHEON LG-12 ARGON (AR)	IV	457.9 TO 514.5				1.00 W MULTI		N/A	2.59 W/CM2	RESEARCH & OEM
RAYTHEON LG-13 ARGON (AR)	IV	457.9 TO 514.5				5.00 W MULTI 10.0		N/A	13.0 W/CM2 25.9	RESEARCH & OEM
RAYTHEON LG-13K KRYPTON (KR)	IV	647.1				2.00 W MULTI 5.00		N/A	5.18 W/CM2 13.0	RESEARCH & OEM
RAYTHEON LG-14 CARBON DIOXIDE (CO2)	IV	10600				20.0 W MULTI		N/A	2.54 KW/CM2	RESEARCH & OEM
RAYTHEON LG-16 CARBON DIOXIDE (CO2)	IV	10600	2.00	4.00 CIRC		750 W		N/A	476 W/CM2	RESEARCH & OEM
RAYTHEON LG-16 CARBON DIOXIDE (CO2)	IV	10600	4.30	4.00 CIRC		750 W		N/A	103 W/CM2	RESEARCH & OEM
RAYTHEON LH-16 NEODYMIUM YAG (ND YAG)	IV	1064				100 MJ	30.0 P/S	60.0 MS 80.0 US	259 MJ/CM2	RESEARCH & OEM
RAYTHEON VH-102 RUBY OR ND	IV	694.3 1060				250 J			648 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RAYTHEON SS-117 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	5.00 CIRC		0.500 J	1.60 TO 20.0 P/S	110 US	1.30 J/CM2	RESEARCH & OEM
RAYTHEON LES-136 RUBY	IV	694.3				50.0 W AVER	60.0 P/M	0.500 MS 5.00	130 J/CM2	RESEARCH & OEM
RAYTHEON SS-136 RUBY	IV	694.3	1.00	6.00 CIRC		30.0 J	2.00 P/S	0.500 MS 1.50	76.2 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
RAYTHEON LES-144 ND		1060	0.500		CIRC					RESEARCH & OEM INSUFFICIENT INFORMATION
RAYTHEON SL-10A CARBON DIOXIDE (CO2)	IV	10600	4.00		CIRC	20.0 W		N/A	3.17 W/CM2	MAT. PROCESSING
RAYTHEON SS-170 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	3.00	CIRC	10.0MGW PEAK 3.00 W AVER	30.0 P/S	0.012 US	311 MJ/CM2 259	RESEARCH & OEM
RAYTHEON SS-170-2 NEODYMIUM YAG (ND YAG)	IV	1064	0.100 0.200	3.00	CIRC	1.00MGW PEAK	30.0 P/S	8.00 NS	20.7 MJ/CM2	RESEARCH & OEM
RAYTHEON SS-205 RUBY	IV	694.3	0.950	5.00	CIRC	100MGW PEAK	1.00 TO 2.00 P/H	10.0 NS 12.0	3.11 J/CM2	RESEARCH & OEM
RAYTHEON SS-209 RUBY	IV	694.3	0.950	5.00	CIRC	25.0 J MULTI	1.00 TO 2.00 P/H	0.600 MS 1.50	64.8 J/CM2	RESEARCH & OEM
RAYTHEON SS-210 RUBY	IV	694.3	0.950	5.00	CIRC	25.0 J MULTI	1.00 P/H	1.50 MS	64.8 J/CM2	RESEARCH & OEM
RAYTHEON SS-212 RUBY	IV	694.3	0.900	5.00	CIRC	150MGW PEAK	1.00 P/S	10.0 NS	3.89 J/CM2	RESEARCH & OEM
RAYTHEON SS-217 RUBY	IV	694.3	0.600	0.100	CIRC	20.0MGW PEAK 160 MJ	0.100 P/S	0.008 US	415 MJ/CM2	RESEARCH & OEM
RAYTHEON SS-219 NEODYMIUM YAG (ND YAG)	IV	1064	0.400	3.00	CIRC	50.0 MJ MULTI	1.00 P/S	0.020 US	130 MJ/CM2	RESEARCH & OEM
RAYTHEON SS-220 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	4.00	CIRC	20.0MGW PEAK	30.0 P/S	0.010 US	518 MJ/CM2	RESEARCH & OEM
RAYTHEON SS-221 NEODYMIUM GLASS	IV	530.0	3.00	3.00	CIRC	2.00 J MULTI	0.030 P/S	0.030 US	564 MJ/CM2	RESEARCH & OEM
RAYTHEON SS-222 NEODYMIUM YAG (ND YAG)	IV	1064	1.00	1.00	CIRC	30.0 J MULTI	10.0 P/S	1000 US	76.2 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
RAYTHEON SS-302 ND-YAG DOUBLED	IV	530.0	1.00	4.00	CIRC	0.100 J	MULTI 30.0 P/S	0.020 US	254 MJ/CM2	RESEARCH & OEM
RAYTHEON SS-313 NEODYMIUM YAG (ND YAG)	IIIB	1064	(.1)	2.00		16.0 KW PEAK	0.500 TO 24.0 KHZ	0.150 US 0.250	10.4 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RAYTHEON SS-323 DRILLER NO DATA										MAT. PROCESSING INSUFFICIENT INFORMATION
RAYTHEON SS-325 NEODYMIUM YAG (ND YAG)		1064	0.700		CIRC		50.0 P/S	800 US		RESEARCH & OEM INSUFFICIENT INFORMATION
RAYTHEON SS-328 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	1.00	CIRC	2.00 KW PEAK 2.00 MJ	5000 P/S	0.300 US 0.500	2.59 MJ/CM2 5.18	RESEARCH & OEM
RAYTHEON SS-330 RUBY	IIIB	694.3	0.500	6.00	CIRC	0.200 J	MULTI 0.030 P/S	0.011	518 MJ/CM2	RESEARCH & OEM
RAYTHEON SS-330 RUBY	IV	694.3	0.500	6.00	CIRC	16.0 MW PEAK 200 MJ	0.020 P/S	0.015 US	622 MJ/CM2 518	RESEARCH & OEM
RAYTHEON SS-331 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	3.00	CIRC	0.180 J	MULTI 1.00 TO 20.0 P/S	0.020 US	467 MJ/CM2	RESEARCH & OEM
RAYTHEON SS-343 RUBY	IV	694.3	0.070	5.00	CIRC	0.250 J	0.100 P/S	0.250 US	648 MJ/CM2	RESEARCH & OEM
RAYTHEON SS-347 NEODYMIUM YAG (ND YAG)	IV	1064	0.700	10.0	CIRC	1.50 J	10.0 TO 20.0 P/S	300 US	3.89 J/CM2	RESEARCH & OEM
RAYTHEON SS-347 NEODYMIUM YAG (ND YAG)	IV	1064	0.700	10.0	CIRC	1.50 J	10.0 P/S 20.0	300 US	3.89 J/CM2	RESEARCH & OEM
RAYTHEON SS-349 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	7.00	CIRC	100 KW PEAK 20.0 J	5.00 P/S	10.0 MS	2.59 KJ/CM2 51.8 J/CM2	RESEARCH & OEM
RAYTHEON SS-349 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	7.00	CIRC	100 W PEAK 0.500 J	30.0 P/S	6.00 MS	1.56 J/CM2 1.30	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
RAYTHEON SS-350 DOUBLED RUBY	IIIB	694.1	1.00	3.00	CIRC	5.00MGW PEAK 0.150 J	2.00 P/S	30.0 NS	381 MJ/CM2	RESEARCH & OEM
RAYTHEON SS-351 RUBY	IV	694.3	1.20	6.00	CIRC	120 J	MULTI 0.500 P/S	1.00 MS	212 J/CM2	RESEARCH & OEM
RAYTHEON SS-351 RUBY OSC.	IV	694.3	1.20	6.00	CIRC	120 J	0.500 P/S	1.00 US	212 J/CM2	RESEARCH & OEM
RAYTHEON SS-355 RUBY	IV	694.3	0.700	6.00	CIRC	5.00MGW PEAK 100 MJ	1.00 TO 10.0 P/S	200 NS	2.59 J/CM2 259 MJ/CM2	RESEARCH & OEM
RAYTHEON SS-369 RUBY	IV	694.3	2.00	2.00	CIRC	3.00 J	MULTI 0.017 P/S	0.003 US	1.90 J/CM2	RESEARCH & OEM
RAYTHEON SS-369 RUBY 0-A	IV	694.3	2.00	2.00	CIRC	500MGW PEAK 3.00 J	0.017 P/S	0.003 US	952 MJ/CM2 1.90 J/CM2	RESEARCH & OEM
RAYTHEON SS-372 NEODYMIUM YAG (ND YAG)	IV	1064	1.00	2.00	CIRC	1.00 J	MULTI 30.0 P/S	0.020 US	2.54 J/CM2	RESEARCH & OEM
RAYTHEON SS-373 NEODYMIUM YAG (ND YAG)	IV	1064	1.00	2.00	CIRC	50.0MGW PEAK 1.00 J	30.0 P/S	20.0 NS	2.54 J/CM2	RESEARCH & OEM
RAYTHEON SS-380 NEODYMIUM YAG (ND YAG)	IV	1064	0.600	10.0	CIRC	20.0 J	MULTI 6.00 P/S	1.00 US 11000	51.8 J/CM2	RESEARCH & OEM
RAYTHEON SS-400 WELDING NO DATA										MAT. PROCESSING INSUFFICIENT INFORMATION
RAYTHEON SS-401 RUBY	IV	694.3	1.20	4.00	CIRC	5.00 J	MULTI 2.00 P/S	0.020 US	8.82 J/CM2	RESEARCH & OEM
RAYTHEON SS-401 RUBY OSC.	IV	694.3	1.20	4.00	CIRC	200MGW PEAK 5.00 J	2.00 P/S	20.0 MS	7.05 J/CM2 8.82	RESEARCH & OEM
RAYTHEON SS-418 RUBY D-A	IV	694.3	2.00	2.00	CIRC	800MGW PEAK 16.0 J	0.030 P/S	0.020 US	10.2 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
RAYTHEON SS-418 RUBY O-A	IV	694.3	2.00	2.00	CIRC	800MW PEAK 16.0 J	0.030 P/S	0.020 US	10.2 J/CM2	RESEARCH & OEM
RAYTHEON SS-418 RUBY	IV	694.3	2.00	2.00	CIRC	16.0 J MULTI	0.030 P/S	0.020 US	10.2 J/CM2	RESEARCH & OEM
RCA LD-2186A,2186A/V1- HELIUM CADMIUM (HECD)	IIIB	441.6	0.080	0.800	CIRC	20.0 MW TEM00	N/A		51.8 MW/CM2	HOLOGRAPHY
RCA 30015 GAALAS	IIIB	850.0	(.1)	320		12.0 W PEAK		200 NS	6.22 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA 30017 GAALAS	IIIB	850.0	(.1)	320		12.0 W PEAK		200 NS	6.22 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA 40855 GAAS SINGLE DIODE	IIIB	905.0	(.1)	125		0.700 W PEAK	5.00 KHZ	0.200 US	363 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA 40856 GAAS SINGLE DIODE	IIIB	905.0	(.1)	125		1.00 W PEAK	5.00 KHZ	0.200 US	518 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA 40857 GAAS SINGLE DIODE	IIIB	905.0	(.1)	125		1.00 W PEAK	5.00 KHZ	0.200 US	518 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA 40858 GAAS SINGLE DIODE	IIIB	905.0	(.1)	125		3.00 W PEAK	5.00 KHZ	0.200 US	1.56 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA 40859 GAAS SINGLE DIODE	IIIB	905.0	(.1)	125		3.00 W PEAK	5.00 KHZ	0.200 US	1.56 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA 40860 GAAS SINGLE DIODE	IIIB	905.0	(.1)	125		5.00 W PEAK	5.00 KHZ	0.200 US	2.59 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA 40861 GAAS SINGLE DIODE	IIIB	905.0	(.1)	125		10.0 W PEAK	5.00 KHZ	0.200 US	5.18 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA 40862 GAAS SINGLE DIODE	IIIB	905.0	(.1)	125		10.0 W PEAK	5.00 KHZ	0.200 US	5.18 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
RCA 40863 GAAS SINGLE DIODE	IIIB	905.0	(.1)	125		10.0 W PEAK	5.00 KHZ	0.200 US	5.18 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA 40864 GAAS SINGLE DIODE	IIIB	905.0	(.1)	125		15.0 W PEAK	5.00 KHZ	0.200 US	7.78 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA 40865 GAAS SINGLE DIODE	IIIB	905.0	(.1)	125		15.0 W PEAK	5.00 KHZ	0.200 US	7.78 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA 40866 GAAS SINGLE DIODE	IIIB	905.0	(.1)	125		15.0 W PEAK	5.00 KHZ	0.200 US	7.78 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30002 GAAS ARRAY	IIIB	905.0	(.1)	420		80.0 W PEAK	100 P/S	200 NS	41.5 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30003 GAAS ARRAY	IIIB	904.0	(.1)	420		80.0 W PEAK	100 P/S	200 NS	41.5 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30004 GAAS ARRAY	IIIB	904.0	(.1)	420		120 W PEAK	100 P/S	200 NS	62.2 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30005 GAAS	IIIB	905.0	(.1)	780		300 W PEAK	100 P/S	200 NS	156 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30006 GAAS ARRAY	IIIB	904.0	(.1)	420		240 W PEAK	100 P/S	200 NS	124 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30007 GAAS ARRAY	IIIB	904.0	(.1)	420		240 W PEAK	100 P/S	200 NS	124 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30008 GAAS ARRAY	IIIB	904.0	(.1)	420		480 W PEAK	100 P/S	200 NS	249 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30009 GAAS	IIIB	905.0	(.1)	780		300 W PEAK	100 P/S	200 NS	156 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30010 GAAS STACKED	IIIB	904.0	(.1)			48.0 W PEAK	0.500 KHZ	200 NS	24.9 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- BEAM GENGE SHAPE (MRAD)	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
RCA C30011 GAAS	IIIB	904.0 (.1)	320	40.0 W PEAK	500 P/S	200 NS	20.7 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30012 GAALAS	IIIB	850.0 (.1)		6.00 W PEAK	1.00 KHZ	100 NS	1.56 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30013 GAALAS	IIIB	850.0 (.1)		10.0 W PEAK	1.00 KHZ	100 NS	2.59 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30020 GAAS MODULES	IIIB	852.5 (.1)	570	28.0 W PEAK	10.0 KHZ	200 NS	14.5 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30021 GAAS	IIIB	855.0 (.1)	730	50.0 W PEAK	10.0 KHZ	200 NS	25.9 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30025 GAAS	IIIB	900.0 (.1)		0.500 W PEAK	10.0 KHZ	100 NS	130 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30034 GAAS	IIIB	900.0 (.1)		1.50 W PEAK	10.0 KHZ	100 NS	389 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30038 GAAS STACKED	IIIB	904.0 (.1)		135 W PEAK	200 P/S	200 NS	70.0 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30039 GAAS ARRAY	IIIB	850.0 (.1)		250 W PEAK	1000 P/S	100 NS	64.8 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30041 GAAS STACKED	IIIB	904.0 (.1)		75.0 W PEAK	200 P/S	200 NS	38.9 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30042 GAAS STACKED	IIIB	904.0 (.1)		180 W PEAK	200 P/S	200 NS	93.3 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30077 GAAS	IIIB	904.0 (.1)	320	5.00 W PEAK	500 P/S	200 NS	2.59 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30078 GAAS	IIIB	904.0 (.1)	320	10.0 W PEAK	500 P/S	200 NS	5.18 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
RCA C30079 GAAS	IIIB	904.0	(.1)	320		15.0 W PEAK	500 P/S	200 NS	7.78 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30083 GAAS ARRAY	IIIB	904.0	(.1)			120 W PEAK	100 P/S	200 NS	62.2 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30084 GAAS ARRAY	IIIB	904.0	(.1)			160 W PEAK	100 P/S	200 NS	82.9 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30085 GAAS ARRAY	IIIB	904.0	(.1)			230 W PEAK	100 P/S	200 NS	119 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30086 GAAS ARRAY	IIIB	904.0	(.1)			350 W PEAK	100 P/S	200 NS	181 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30087 GAAS	IIIB	904.0	(.1)			300 W PEAK	100 P/S	200 NS	156 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30088 GAAS ARRAY	IIIB	904.0	(.1)			460 W PEAK	100 P/S	200 NS	238 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30089 GAAS	IIIB	905.0	(.1)			325 W PEAK	100 P/S	200 NS	168 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30090 GAAS ARRAY	IIIB	904.0	(.1)			120 W PEAK	100 P/S	200 NS	62.2 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30092 GAAS ARRAY	IIIB	904.0	(.1)			230 W PEAK	100 P/S	200 NS	119 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30099 GAALAS	IIIB	850.0	(.1)			16.0 W PEAK	1.00 KHZ	100 NS	4.15 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30107 GAAS	IIIB	900.0	(.1)			0.500 W PEAK	10000 P/S	0.100 US	130 NJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA C30108 GAAS	IIIB	900.0	(.1)			1.50 W PEAK	10000 P/S	0.100 US	389 NJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
RCA J15404/05 HELIUM NEON (HENE)	IIIB	632.8	0.080	1.00	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
RCA J-15404-A HELIUM NEON (HENE)	IIIB	632.8		1.00		2.00 MW TEM00		N/A	5.18 MW/CM2	RESEARCH & OEM
RCA J-15407 HELIUM NEON (HENE)	IIIB	632.8		2.10		5.00 MW MULTI		N/A	13.0 MW/CM2	RESEARCH & OEM
RCA J15407 HELIUM NEON (HENE)	IIIB	632.8	0.080	1.00	CIRC	5.00 MW MULTI		N/A	13.0 MW/CM2	RESEARCH & OEM
RCA J-15410 HELIUM NEON (HENE)	IIIB	632.8		3.50		2.00 MW MULTI		N/A	5.18 MW/CM2	RESEARCH & OEM
RCA J-15411-A HELIUM NEON (HENE)	IIIB	632.8		1.00		4.00 MW TEM00		N/A	10.4 MW/CM2	RESEARCH & OEM
RCA J-15414 HELIUM CADMIUM (HECD)	IIIB	441.6		0.700		5.00 MW TEM00		N/A	13.0 MW/CM2	RESEARCH & OEM
RCA J-15417-A HELIUM NEON (HFNE)	IIIB	632.8		1.00		2.00 MW TEM00		N/A	5.18 MW/CM2	RESEARCH & OEM
RCA J-15418 HELIUM NEON (HENE)	IIIB	632.8		3.50		2.00 MW MULTI		N/A	5.18 MW/CM2	RESEARCH & OEM
RCA J-15419-A HELIUM NEON (HENE)	IIIB	632.8		1.00		4.00 MW TEM00		N/A	10.4 MW/CM2	RESEARCH & OEM
RCA J-15420 HELIUM NEON (HENE)	IIIB	632.8		2.10		5.00 MW MULTI		N/A	13.0 MW/CM2	RESEARCH & OEM
RCA J-15421 HELIUM NEON (HENE)	IIIB	632.8		3.50		2.00 MW MULTI		N/A	5.18 MW/CM2	RESEARCH & OEM
RCA J-15422-A HELIUM NEON (HENE)	IIIB	632.8		1.00		4.00 MW TEM00		N/A	10.4 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
RCA J-15423 HELIUM NEON (HENE)	IIIB	632.8		2.10		5.00 MW MULTI	N/A		13.0 MW/CM2	RESEARCH & OEM
RCA J-15430 HE-SE	IIIB	460.5 TO 644.4				15.0 MW TEM00	N/A		38.9 MW/CM2	RESEARCH & OEM
RCA L-15404-A HELIUM NEON (HENE)	IIIB	632.8	0.080	1.00	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM2	RESEARCH & OEM
RCA L-15407 HELIUM NEON (HENE)	IIIB	632.8	0.120	2.10	CIRC	5.00 MW MULTI	N/A		13.0 MW/CM2	RESEARCH & OEM
RCA L-15411 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM2	RESEARCH & OEM
RCA L-15411-A HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	4.00 MW TEM00	N/A		10.4 MW/CM2	RESEARCH & OEM
RCA L-15414 HELIUM CADMIUM (HECD)	IIIB	325.0	0.090	0.700	CIRC	105 MW TEM00	N/A		13.3 W/CM2	RESEARCH & OEM
RCA L-15422 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM2	RESEARCH & OEM
RCA L-15422-A HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	4.00 MW TEM00	N/A		10.4 MW/CM2	RESEARCH & OEM
RCA L-15423 HELIUM NEON (HENE)	IIIB	632.8	0.120	2.10	CIRC	5.00 MW MULTI	N/A		13.0 MW/CM2	RESEARCH & OEM
RCA LD-211,-A HELIUM NEON (HENE)	IIIB	632.8	0.080	1.00	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM2	RESEARCH & OEM
RCA RCA-LD2101 ARGON (AR)	IV	457.9 488.0 514.5	0.140	0.700	CIRC	2.00 W TEM00	N/A		5.18 W/CM2	RESEARCH & OEM
RCA RCA-LD2106 ARGON (AR)	IIIB	476.5 488.0 514.5	0.050	0.700	CIRC	10.0 MW TEM00	N/A		25.9 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
RCA RCA-LD2111 NEON (NE2)	IIIB	332.4	0.120	0.700	CIRC	50.0 MW TEM00	N/A		6.35 W/CM2	RESEARCH & OEM
RCA RCA-LD2125 ARGON (AR)	IIIB	488.0 514.5	0.060	1.00	CIRC	50.0 MW PEAK	60.0 P/S	50.0 US	6.48 UJ/CM2	RESEARCH & OEM
RCA RCA-LD2127 KRYPTON (KR)	IIIB	568.2 647.1 476.2	0.120	0.700	CIRC	400 MW TEM00	N/A		1.04 W/CM2	RESEARCH & OEM
RCA LD-2183 HELIUM NEON (HENE)	IIIB	632.8	0.080	1.00	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM2	RESEARCH & OEM
RCA LD-2100 ARGON (AR)	IIIB	457.9 TO 514.5	0.120	0.700	CIRC	125 MW TEM00	N/A		324 MW/CM2	RESEARCH & OEM
RCA LD-2101 ARGON (AR)	IV	457.9 TO 514.5	0.140	0.700	CIRC	2.00 W TEM00	N/A		5.18 W/CM2	RESEARCH & OEM
RCA LD-2108 ARGON (AR)	IIIB	476.5 TO 488.0	0.050	0.700	CIRC	10.0 MW TEM00	N/A		25.9 MW/CM2	RESEARCH & OEM
RCA LD-2111 NEON (NE2)	IIIB	332.4	0.120	0.700	CIRC	50.0 MW TEM00	N/A		6.35 W/CM2	RESEARCH & OEM
RCA LD-2117 HELIUM NEON (HENE)	IIIB	632.8	0.060	1.00	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM
RCA LD-2118 HELIUM NEON (HENE)	IIIB	632.8	0.080	1.00	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM
RCA LD-2118A HELIUM NEON (HENE)	IIIB	632.8	0.080	1.00	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM2	RESEARCH & OEM
RCA LD-2119 ARGON (AR)	IV	475.9 TO 514.5	0.250	1.00	CIRC	5.00 W TEM00	N/A		13.0 W/CM2	RESEARCH & OEM
RCA LD-2122 ARGON (AR)	IV	475.9 TO 514.5	0.400	2.00	CIRC	10.0 W MULTI	N/A		25.9 W/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
RCA LD-2125 ARGON (AR)	IV	488.0 TO 514.5	0.060	1.00	CIRC	100 MW AVER 50.0 MW TEM00	60.0 P/S	50.0 US	4.32 MJ/CM <sup>2</sup> 2-16	RESEARCH & OEM
RCA LD-2127 KRYPTON (KR)	IIIB	476.2 TO 647.1	0.120	0.700	CIRC	400 MW TEM00	N/A		1.04 W/CM <sup>2</sup>	RESEARCH & OEM
RCA LD-2127-V1 KRYPTON (KR)	IIIB	350.7 TO 356.4	0.120	0.700	CIRC	100 MW TEM00	N/A		12.7 W/CM <sup>2</sup>	RESEARCH & OEM
RCA LD-2131-V1 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	2.00 MW MULTI	N/A		5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
RCA LD-2140 ARGON (AR)	IIIB	457.9 TO 496.5	0.100	0.800	CIRC	500 MW TEM00	N/A		1.30 W/CM <sup>2</sup>	RESEARCH & OEM
RCA LD-2140-V1 KRYPTON (KR)	IIIB	476.2 TO 520.8	0.100	0.800	CIRC	130 MW TEM00	N/A		337 MW/CM <sup>2</sup>	RESEARCH & OEM
RCA LD-2148 HELIUM CADMIUM (HECD)	IIIB	325.0	0.090	0.700	CIRC	1.50 MW TEM00	N/A		190 MW/CM <sup>2</sup>	RESEARCH & OEM
RCA LD-2149 HELIUM CADMIUM (HECD)	IIIB	441.6	0.090	0.800	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM <sup>2</sup>	RESEARCH & OEM
RCA LD-2171 HELIUM NEON (HENE)	IIIB	632.8	0.080	1.00	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
RCA LD-2172 HELIUM NEON (HENE)	IIIB	632.8	0.080	1.00	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
RCA LD-2173 HELIUM NEON (HENE)	IIIB	632.8	0.080	1.00	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM <sup>2</sup>	RESEARCH & OEM
RCA LD-2174 HELIUM NEON (HENE)	IIIB	632.8	0.080	1.00	CIRC	4.00 MW TEM00	N/A		10.4 MW/CM <sup>2</sup>	RESEARCH & OEM
RCA LD-2175 HELIUM NEON (HENE)	IIIB	632.8	0.120	2.10	CIRC	5.00 MW MULTI	N/A		13.0 MW/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSF REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
RCA LD-2183 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	3.00 MW TEM00			7.78 MW/CM <sup>2</sup>	RESEARCH & DEM
RCA LD-2184 HELIUM NEON (HENE)	IIIB	632.8	0.080	1.00	CTPC	4.00 MW TEM00			10.4 MW/CM <sup>2</sup>	RESEARCH & DEM
RCA LD-2185 HELIUM NEON (HENE)	IIIB	632.8	0.120	2.10	CIRC	5.00 MW MULTI			13.0 MW/CM <sup>2</sup>	RESEARCH & DEM
RCA ML-31-XX CARBON DIOXIDE (CO <sub>2</sub> )	IV	10600				12.0 W TEM00			1.52 KW/CM <sup>2</sup>	RESEARCH & DEM
RCA ML-39-XX CARBON DIOXIDE (CO <sub>2</sub> )	IV	9600				5.00 W TEM00			635 W/CM <sup>2</sup>	RESEARCH & DEM
RCA ML-3141 CARBON DIOXIDE (CO <sub>2</sub> )	IV	10600	0.300	3.00	CIRC	4.00 W TEM00 6.00 W MULTI			113 W/CM <sup>2</sup> 169	RESEARCH & DEM
RCA ML-3142 CARBON DIOXIDE (CO <sub>2</sub> )	IV	10600	0.300	3.00	CIRC	4.00 W TEM00 6.00 W MULTI			113 W/CM <sup>2</sup> 169	RESEARCH & DEM
RCA ML-3181 CARBON DIOXIDE (CO <sub>2</sub> )	IV	10600	0.400	3.00	CIRC	12.0 W TEM00 16.0 W MULTI			190 W/CM <sup>2</sup> 254	RESEARCH & DEM
RCA ML-3182 CARBON DIOXIDE (CO <sub>2</sub> )	IV	10600	0.400	3.00	CIRC	12.0 W TEM00 18.0 W MULTI			190 W/CM <sup>2</sup> 286	RESEARCH & DEM
RCA ML-3832 CARBON DIOXIDE (CO <sub>2</sub> )	IV	10600	0.350	1.90	CIRC	3.00 W TEM00			62.2 W/CM <sup>2</sup>	RESEARCH & DEM
RCA ML-3852 CARBON DIOXIDE (CO <sub>2</sub> )	IV	10600	0.360	1.80	CIRC	6.00 W TEM00			118 W/CM <sup>2</sup>	RESEARCH & DEM
RCA ML-3882 CARBON DIOXIDE (CO <sub>2</sub> )	IV	10600	0.370	1.80	CIRC	12.0 W TEM00			223 W/CM <sup>2</sup>	RESEARCH & DEM
RCA SG2001 GAAS	IIIB	904.0	(.1)	170		4.50 W PEAK	1000 P/S	200 NS	2.33 UJ/CM <sup>2</sup>	RESEARCH & DEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
RCA SG-2002 GAAS	IIIB	904.0	(.1)			2.00 W PEAK	1.00 KHZ	0.200 US	1.04 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA SG-2003 GAAS	IIIB	904.0	(.1)			3.00 W PEAK	1.00 KHZ	0.200 US	1.56 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA SG2004 GAAS	IIIB	904.0	(.1)	170		9.00 W PEAK	1000 P/S	200 NS	4.67 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA SG-2005 GAAS	IIIB	904.0	(.1)			5.00 W PEAK	1.00 KHZ	0.200 US	2.59 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA SG-2006 GAAS	IIIB	904.0	(.1)			7.00 W PEAK	1.00 KHZ	0.200 US	3.63 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA SG2007 GAAS	IIIB	904.0	(.1)	170		14.0 W PEAK	1000 P/S	200 NS	7.26 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA SG-2009 GAAS	IIIB	904.0	(.1)			12.0 W PEAK	1.00 KHZ	0.200 US	6.22 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA SG2010 GAAS	IIIB	904.0	(.1)	170		24.0 W PEAK	1000 P/S	200 NS	12.4 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA SG-2012 GAAS	IIIB	904.0	(.1)			20.0 W PEAK	500 P/S	0.200 US	10.4 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA SG 3001 GAAS	IIIB	904.0	(.1)	320		25.0 W PEAK	500 P/S	200 NS	13.0 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA SG3001 GAAS STACKED	IIIB	904.0	(.1)			40.0 W PEAK	500 P/S	200 NS	20.7 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA SG4001 GAAS ARRAY	IIIB	855.0	(.1)			37.0 W PEAK	10.0 KHZ	200 NS	19.2 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA SG-4002 GAAS	IV	855.0		800		1.50 KW PEAK	10.0 KHZ	200 NS	778 UJ/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (J/CM <sup>2</sup> OR UJ/CM <sup>2</sup> )	APPLICATION/ COMMENTS
RCA SG-4003 GAAS	IV	855.0		800		1.50 KW PEAK	10.0 KHZ	200 NS	778 UJ/CM <sup>2</sup>	RESEARCH & OEM
RCA TA-2440 GAAS		840.0				0.100 W PEAK				RESEARCH & OEM INSUFFICIENT INFORMATION
RCA TA-7687 GAAS ARRAY		905.0		175			1.00 KHZ	0.200 US		RESEARCH & OEM INSUFFICIENT INFORMATION
RCA TA-7692 GAAS ARRAY	IIIB	905.0	(.1)	175		300 W PEAK	1.00 KHZ	0.200 US	156 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA TA-7705 GAAS SINGLE DIODE	IIIB	905.0	(.1)	125		40.0 W PEAK	500 P/S	0.100 US	10.4 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA TA-7763 GAAS SINGLE DIODE	IV	905.0	(.1)	125		2.00 KW PEAK	1000 P/S	0.200 US	1.04 MJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA TA-7764 GAAS STACKED DIODE	IIIB	905.0	(.1)	175		25.0 W PEAK	1000 P/S	0.200 US	13.0 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA TA-7765 GAAS STACKED DIODE	IIIB	905.0	(.1)	175		50.0 W PEAK	1000 P/S	0.200 US	25.9 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA TA-7787 GAAS SINGLE DIODE	IIIB	905.0	(.1)	125		60.0 W PEAK	500 P/S	0.100 US	15.6 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA TA-7789 GAAS ARRAY	IV	852.5 855.0		175		2.00 KW PEAK	20.0 KHZ	200 NS	1.04 MJ/CM <sup>2</sup>	RESEARCH & OEM
RCA TA-7864 GAAS SINGLE DIODE	IIIB	905.0	(.1)	125		20.0 W PEAK	100 P/S	0.200 US	10.4 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA TA-7867 GAALAS	IIIB	855.0	(.1)	125		3.00 W PEAK	5.00 KHZ	0.100 US	778 NJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA TA-7964 GAAS STACKED DIODE	IIIB	905.0	(.1)	175		30.0 W PEAK	2000 P/S	0.200 US	15.6 UJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
RCA TA-8127 GAALAS	IIIB	855.0	(.1)	125 175		7.00 W PEAK	2.00 KHZ	0.100 US	1.81 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RCA TA-8132 GAALAS	IIIB	855.0	(.1)	125 175		300 W PEAK	2.00 KHZ	0.100 US	77.8 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
REICH ASSOC. DL-8 NITROGEN (N2)		360.0 TO 700.0	0.200	4.00 CIRC			100 P/S			RESEARCH & OEM INSUFFICIENT INFORMATION
REICH ASSOC. DL-600 NITROGEN (N2)		360.0 TO 700.0	0.200	4.00 CIRC			100 P/S			RESEARCH & OEM INSUFFICIENT INFORMATION
REICH ASSOC. KW50 NITROGEN (N2)	IIIB	337.1	(.1)			0.500 MW AVER	100 P/S	0.013 US	635 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
RESALAB 3166 RUBY		694.3				50.0 KW PEAK		N/A		RESEARCH & OEM INSUFFICIENT INFORMATION
RESALAB 3320 HELIUM NEON (HENE)	II	632.8	1.91	3.00 CIRC		0.500 MW MULTI			398 UW/CM2	RESEARCH & OEM
RESALAB 3325 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00 CIRC		8.00 MW MULTI 5.00 MW TEMOO			20.7 MW/CM2 13.0	RESEARCH & OEM
RESALAB 3330 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.40 CIRC		20.0 MW MULTI 10.0 MW TEMOO			51.8 MW/CM2 25.9	RESEARCH & OEM
RESALAB 3335 HELIUM NEON (HENE)	IIIB	632.8	0.110	1.10 CIRC		35.0 MW MULTI 25.0 MW TEMOO			90.7 MW/CM2 64.8	RESEARCH & OEM
RESALAB 3340 HELIUM NEON (HENE)	IIIB	632.8	0.200	0.080 CIRC		80.0 MW MULTI			207 MW/CM2	RESEARCH & OEM
RESALAB 3355 ARGON (AR)	IV	350.0 TO 700.0	0.300	2.00 CIRC		25.0 W AVER 10.0 W TEMOO	120 P/S	10.0 US	5.88 J/CM2 2.35	RESEARCH & OEM
RESALAB 3367 XENON (XF)	IIIB	200.0 TO 500.0	0.300	3.00 CIRC		1.00 MW TEMOO			28.2 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
RESALAB 3400 ARGON (AR)	IIIB	460.0 TO 510.0	0.090	1.00	CIRC	250 MW MULTI 100 MW TEMOO	N/A		648 W/CM <sup>2</sup> 259	RESEARCH & OEM
RESALAB 3500 CARBON DIOXIDE (CO <sub>2</sub> )	IV	10600	0.600	3.00	CIRC	3.00 W TEMOO	N/A		21.2 W/CM <sup>2</sup>	RESEARCH & OEM
RESALAB 3510 CARBON DIOXIDE (CO <sub>2</sub> )	IV	10600	0.580	3.00	CIRC	10.0 W TEMOO	N/A		75.5 W/CM <sup>2</sup>	RESEARCH & OEM
RESALAB 3520 CARBON DIOXIDE (CO <sub>2</sub> )	IV	10600	0.800	2.00	CIRC	100 W TEMOO	N/A		397 W/CM <sup>2</sup>	RESEARCH & OEM
RESALAB 3530 CARBON DIOXIDE (CO <sub>2</sub> )	IV	10600	2.50	2.00	CIRC	75.0 W TEMOO	N/A		30.5 W/CM <sup>2</sup>	RESEARCH & OEM
RESALAB 3800 ARGON (AR)	IV	450.0 TO 520.0	5.00	0.500	CIRC	5.00 W AVER		10.0 US	508 MJ/CM <sup>2</sup>	RESEARCH & OEM
ROFIN NO MODEL NO. HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	150 MW TEMOO	N/A		389 W/CM <sup>2</sup>	RESEARCH & OEM
ROFIN 7480 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	1.00 MW TEMOO	N/A		2.59 W/CM <sup>2</sup>	RESEARCH & OEM
SANTA BARBARA RC 32005-TRANSMITTER GA-AS	I	904.0		5.00		2.00 W PEAK		100 NS	518 NJ/CM <sup>2</sup>	COMMUNICATOR PROVISIONAL -OSHA- CLASSIFICATION
SANDERS ASSOCIATES DUAL LAMP NEODYMIUM YAG (ND YAG)	IV	1064	0.600	5.00	CIRC	200 W MULTI 15.0 W TEMOO	N/A		518 W/CM <sup>2</sup> 38.9	RESEARCH & OEM
SANDERS ASSOCIATES 4-KYZ NEODYMIUM YAG (ND YAG)	IV	1064	0.400	12.0	CIRC	200 W MULTI 15.0 W TEMOO	N/A		518 W/CM <sup>2</sup> 38.9	RESEARCH & OEM
SANDERS ASSOCIATES 4-KY-ZD NEODYMIUM YAG (ND YAG)	IIIB	1064	0.400	10.0	CIRC	4.00 MW AVER		75.0 NS	10.4 MJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
SANDERS ASSOCIATES MOD-II NEODYMIUM YAG (ND YAG)	IV	1064	0.400	8.00	CIRC	15.0 W MULTI 0.500 W TEMOO	N/A		38.9 W/CM <sup>2</sup> 1.30	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
SANDERS ASSOCIATES III NEODYMIUM YAG (ND YAG)	IV	1064	0.600	5.00	CIRC	25.0 W MULTI			64.8 W/CM <sup>2</sup>	RESEARCH & OEM
							N/A			
SANDERS ASSOCIATES MOD-III NEODYMIUM YAG (ND YAG)	IV	1064	0.400	8.00	CIRC	25.0 W MULTI 1.50 W TEMOO			64.8 W/CM <sup>2</sup> 3.89	RESEARCH & OEM
							N/A			
SANDERS ASSOCIATES MOD-IIIQ NEODYMIUM YAG (ND YAG)	IIIB	1064	0.100	8.00	CIRC	1.50 MJ		200 NS	3.89 MJ/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
SCIENTIFICA & COOK B-15 HELIUM NEON (HENE)	IIIB	632.8	0.200	1.00	CIRC	0.500 MW TEMOO 1.00 MW MULTI			1.30 MW/CM <sup>2</sup> 2.59	RESEARCH & OEM
							N/A			
SCIENTIFICA & COOK B-16/2 HELIUM NEON (HENE)	IIIB	632.8	0.200	1.00	CIRC	1.50 MW MULTI			95.2 MW/CM <sup>2</sup>	RESEARCH & OEM
							N/A			
SCIENTIFICA & COOK B-16/2 HELIUM NEON (HENE)	IIIB	632.8	0.600		CIRC	10.0 MW MULTI			70.5 MW/CM <sup>2</sup>	RESEARCH & OEM
							N/A			
SCIENTIFICA & COOK B-17 HELIUM NEON (HENE)	IIIB	632.8	0.200	1.00	CIRC	1.00 MW TEMOO 1.50 MW MULTI			63.5 MW/CM <sup>2</sup> 95.2	RESEARCH & OEM
							N/A			
SCIENTIFICA & COOK B-17/5- HELIUM NEON (HENE)	IIIB	632.8	0.200		CIRC	1.00 MW MULTI			63.5 MW/CM <sup>2</sup>	RESEARCH & OEM
							N/A			
SCIENTIFICA & COOK B18/3 HELIUM NEON (HENE)	IIIB	632.8	0.200	1.00	CIRC	8.00 MW TEMOO			508 MW/CM <sup>2</sup>	RESEARCH & OEM
							N/A			
SCIENTIFICA & COOK B-19/2 HELIUM NEON (HENE)	IIIB	632.8	0.200		CIRC	3.00 MW MULTI			190 MW/CM <sup>2</sup>	RESEARCH & OEM
							N/A			
SCIENTIFICA & COOK B19/3 HELIUM NEON (HENE)	IIIB	632.8	0.200	1.00	CIRC	3.00 MW TEMOO			190 MW/CM <sup>2</sup>	RESEARCH & OEM
							N/A			
SCIENTIFICA & COOK B19/5 HELIUM NEON (HENE)	IIIB	632.8	0.200	1.00	CIRC	5.00 MW TEMOO			317 MW/CM <sup>2</sup>	RESEARCH & OEM
							N/A			
SCIENTIFICA & COOK B-20 HELIUM NEON (HENE)	IIIB	632.8	0.200		CIRC	0.800 MW MULTI			50.8 MW/CM <sup>2</sup>	RESEARCH & OEM
							N/A			

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE-LENGTH (NM)	DIA-METER (CM)	DIVER-GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENFRGY	PULSF REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
SCIENTIFICA & COOK B22 HELIUM NEON (HENE)	IIIB	632.8 TO 3390	0.200	1.00	CIRC	10.0 MW	TEM00	N/A	635 W/CM2	RESEARCH & OEM
SCIENTIFICA & COOK B-25 HELIUM NEON (HENE)	IIIB	632.8 TO 3390	0.200	1.00	CIRC	1.50 MW	MULTI	N/A	95.2 W/CM2	RESEARCH & OEM
SCIENTIFICA & COOK ML-125/10 CARBON DIOXIDE (CO2)	IV	10600				10.0 W	MULTI	N/A	1.27 KW/CM2	RESEARCH & OEM
SEED ELECTRONICS SM-1 CARBON DIOXIDE (CO2)	IV	10600	1.30	2.00	CIRC	1.00 W	MULTI	N/A	1.50 W/CM2	RESEARCH & OEM
SEED ELECTRONICS ML-2 CARBON DIOXIDE (CO2)	IV	10600				20.0 W		N/A	2.54 KW/CM2	RESEARCH & OEM
SEED ELECTRONICS SM-10 CARBON DIOXIDE (CO2)	IV	10600	1.30	2.00	CIRC	10.0 W	MULTI	N/A	15.0 W/CM2	RESEARCH & OEM
SEED ELECTRONICS SM-20 CARBON DIOXIDE (CO2)	IV	10600	1.30	2.00	CIRC	20.0 W	MULTI	N/A	30.1 W/CM2	RESEARCH & OEM
SEED ELECTRONICS SM-100 CARBON DIOXIDE (CO2)	IV	10600	1.30	2.00	CIRC	100 W	MULTI	N/A	150 W/CM2	RESEARCH & OEM
SEED ELECTRONICS ML-1A CARBON DIOXIDE (CO2)	IV	10600	0.600	3.00	CIRC	10.0 W	AVER	120 P/S	70.5 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
SEED ELECTRONICS ML-10 CARBON DIOXIDE (CO2)	IV	10600	1.90	3.00	CIRC	10.0 W	MULTI	N/A	7.03 W/CM2	RESEARCH & OEM
SEED ELECTRONICS ML-60 CARBON DIOXIDE (CO2)	IV	10600	2.50	2.00	CIRC	60.0 W	MULTI	N/A	24.4 W/CM2	RESEARCH & OEM
SEED ELECTRONICS ML-100 CARBON DIOXIDE (CO2)	IV	10600	3.20	2.00	CIRC	100 W	MULTI	N/A	24.8 W/CM2	RESEARCH & OEM
SEED ELECTRONICS ML-200 CARBON DIOXIDE (CO2)	IV	10600	3.20	2.00	CIRC	200 W	MULTI	N/A	49.6 W/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
SEED ELECTRONICS ML-300 CARBON DIOXIDE (CO2)	IV	10600	3.20	2.00	CIRC	300 W MULTI	N/A		74.4 W/CM2	RESEARCH & OEM
SEED ELECTRONICS ML-400 CARBON DIOXIDE (CO2)	IV	10600	3.20	2.00	CIRC	400 W MULTI	N/A		99.2 W/CM2	RESEARCH & OEM
SEED ELECTRONICS ML-500 CARBON DIOXIDE (CO2)	IV	10600	3.20	2.00	CIRC	500 W MULTI	N/A		124 W/CM2	RESEARCH & OEM
SIEMENS NONE CARBON DIOXIDE (CO2)	IV	10600	0.150		CIRC	150 W	N/A		16.9 KW/CM2	RESEARCH & OEM
SIEMENS SLY-ICI NEODYMIUM YAG (ND YAG)	IV	1064				1.00 W AVER			2.59 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
SIEMENS SLY-3CI NEODYMIUM YAG (ND YAG)	IV	1064				2.00 W AVER			5.18 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
SIEMENS SLR-ICI RUBY	IIIB	694.0				0.200 W TEM00	N/A		518 MW/CM2	RESEARCH & OEM
SIEMENS SLR-IPI RUBY	IV	694.0				50.0 W AVER 20.0 MJ	60.0 P/S	1.00 MS	2.16 J/CM2 51.8 MJ/CM2	RESEARCH & OEM
SIEMENS SLR-3CI RUBY	IV	694.0				0.900 W AVER			2.33 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
SIEMENS SLR-3P1 RUBY	IV	694.3				20.0 KW PEAK 5.00 J	1.00 P/S	1.00 MS 2.00	104 J/CM2 13.0	RESEARCH & OEM
SIEMENS LG6J HELIUM NEON (HENE)	IIIB	632.8	0.140	0.600	CIRC	2.00 MW	N/A		5.18 MW/CM2	RESEARCH & OEM
SIEMENS LGL6 HELIUM NEON (HENE)	IIIB	632.8	0.120	0.400	CIRC	5.00 MW	N/A		13.0 MW/CM2	RESEARCH & OEM
SIEMENS LG-64 HELIUM NEON (HENE)	IIIB	632.8 TO 3391				12.0 MW MULTI	N/A		1.52 W/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
SIEMENS LG-65 HELIUM NEON (HENE)	II	632.8	2.00	0.400	CIRCO	100 MW TEM00			63.5 UW/CM2	RESEARCH & OEM
							N/A			
SIEMENS LG-66 HELIUM NEON (HENE)	IIIB	632.8	0.100	0.600	CIRC	5.00 MW MULTI			13.0 MW/CM2	RESEARCH & OEM
							N/A			
SIEMENS LG68 HELIUM NEON (HENE)	IIIB	632.8	0.900 0.160	0.050	CIRC CIRC	1.00 MW TEM00			2.59 MW/CM2	RESEARCH & OEM
							N/A			
SIEMENS M68-A3 RUBY	IV	694.3				30.0 W PEAK 80.0 W AVER	3600 P/M	1.00 MS 1.50	117 MJ/CM2 3.46 J/CM2	RESEARCH & OEM
SIEMENS LG69 HELIUM NEON (HENE)	IIIB	632.8	0.075	1.50	CIRC	1.00 MW TEM00			2.59 MW/CM2	RESEARCH & OEM
							N/A			
SIEMENS LG-106 CARBON DIOXIDE (CO2)	IV	10600	1.50	0.600	CIRC	100 W MULTI			113 W/CM2	RESEARCH & OEM
							N/A			
SIEMENS LG641 HELIUM NEON (HENE)	IIIB	632.8 TO 3391	0.120	0.730	CIRC	8.00 MW TEM00 2.50			20.7 MW/CM2 6.48 317	RESEARCH & OEM
							N/A			
SIEMENS LG661 HELIUM NEON (HENE)	IIIB	632.8	0.090	0.900	CIRC	3.00 MW TEM00			7.78 MW/CM2	RESEARCH & OEM
							N/A			
SIEMENS LG681 HELIUM NEON (HENE)	IIIB	632.8	0.065	1.50	CIRC	1.00 MW TEM00			2.59 MW/CM2	RESEARCH & OEM
							N/A			
SIEMENS LG691 HELIUM NEON (HENE)	IIIB	632.8	0.075	1.50	CIRC	1.00 MW TEM00			2.59 MW/CM2	RESEARCH & OEM
							N/A			
SIEMENS LG692 HELIUM NEON (HENE)	IIIB	632.8	0.120	0.730	CIRC	15.0 MW TEM00			38.9 MW/CM2	RESEARCH & OEM
							N/A			
SIEMENS LG-1061 CARBON DIOXIDE (CO2)	IV	10600	1.50		CIRC	100 W AVER	0.110 P/S		113 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
SEMI-ELEMENTS INC SE06 MK1A&11 HE NE	IIIB	632.8 TO 1150				2.00 MW			5.18 MW/CM2	RESEARCH & OEM
							N/A			

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- BEAM GENGE SHAPE (MRAD)	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
SEMI-ELEMENTS INC SEOG-MK1A & II HELIUM NEON (HENE)	IIIB	632.8 TO 1153		1.00 MW 2.00			2.59 MW/CM2 5.18	RESEARCH & DEM
SOCIETE ANONIME TE P1 CARBON DIOXIDE (CO2)	IV	10600	2.00	5.00 W			635 W/CM2	RESEARCH & DEM
SOCIETE ANONIME TE K-12 CARBON DIOXIDE (CO2)	IV	10600	5.00	1.00 W			127 W/CM2	RESEARCH & DEM
SPACE ORDNANCE MACRO-PACK NEODYMIUM GLASS	IV	1060	1.50	5.00 J		300 MS 400 US	13.0 J/CM2	RESEARCH & DEM PROVISIONAL -OSHA- CLASSIFICATION
SPACERAYS NO MODEL NO. NEODYMIUM YAG (ND YAG)	IIIB	1064 (.1)		200 MJ	2.00 TO 1200 P/M	150 MS	518 MJ/CM2	RESEARCH & DEM PROVISIONAL -OSHA- CLASSIFICATION
SPACERAYS 5ML ARGON (AR)	IIIB	632.8		25.0 MW			64.8 MW/CM2	RESEARCH & DEM
SPACERAYS 10A NEODYMIUM YAG (ND YAG)	IV	1064 0.300	5.00 CIRC	0.750 W 10.0 W	TEM00 MULTI		1.94 W/CM2 25.9	RESEARCH & DEM
SPACERAYS 10-10-HRR RUBY	IV	694.3 0.600	10.0 CIRC	0.750 J	MULTI	16.0 P/S 0.700 MS 2.00	1.94 J/CM2	RESEARCH & DEM
SPACERAYS 15A NEODYMIUM YAG (ND YAG)	IV	1064 0.300	5.00 CIRC	1.00 W 15.0 W	TEM00 MULTI		2.59 W/CM2 38.9	RESEARCH & DEM
SPACERAYS YAG-15 NEODYMIUM YAG (ND YAG)	IV	1064 0.300 0.500	3.00 CIRC	1.00 W 15.0 W	TEM00 MULTI		2.59 W/CM2 38.9	RESEARCH & DEM
SPACERAYS 60 ND-YAG/GLASS	IV	1064 0.500	5.00 CIRC	0.200 J 1.00		1.00 TO 60.0 P/S 50.0 US 500	518 MJ/CM2 2.59 J/CM2	RESEARCH & DEM
SPACERAYS YAG-60 NEODYMIUM YAG (ND YAG)	IV	1064 0.500	3.00 CIRC	0.075 J	MULTI	60.0 P/S 125 US	194 MJ/CM2	RESEARCH & DEM
SPACERAYS YT/-60 NEODYMIUM YAG (ND YAG)	IV	ENCL 1064 0.500	3.00 CIRC	75.0 MJ		60.0 P/S 125 US	194 MJ/CM2	MAT. PROCESSING CLASS I AS ENCLOSED

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REF-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
SPACERAYS 150 NEODYMIUM YAG (ND YAG)	IV	1060	1.00	10.0	CIRC	500 W 30.0 W TEM00	MULTI N/A		1.27 KW/CM2 76.2 W/CM2	RESEARCH & OEM
SPACERAYS VT-60 NEODYMIUM YAG (ND YAG)	IV	1064	0.300	5.00	CIRC	0.200 J	60.0 P/S	0.100 MS	518 MJ/CM2	RESEARCH & OEM
SPACERAYS DA-100 RUBY/GLASS	IV	694.3 1060	1.80	6.00	CIRC	15.0 J	MULTI 0.067 P/S	30.0 NS	11.8 J/CM2	RESEARCH & OEM
SPACERAYS DA-100 RUBY-YAG	IV	694.3 TO 1100	0.900 0.180	0.300	CIRC CIRC	100 J	4.00 P/S	1.00 MS	259 J/CM2	RESEARCH & OEM
SPACERAYS HD-100 RUBY	IV	694.3	0.900	6.00	CIRC	10.0 J 80.0	0.500 TO 3.00 P/S	0.100 MS 1.00	25.9 J/CM2 207	RESEARCH & OEM
SPACERAYS 100ML ARGON (AR)	IIIB	514.0 TO 457.0				100 MW TEM00	N/A		259 MW/CM2	RESEARCH & OEM
SPACERAYS RT-100 NEODYMIUM YAG (ND YAG)	IV	1064	0.300	5.00	CIRC	0.200 J	60.0 P/S	0.100 MS	518 MJ/CM2	MAT. PROCESSING
SPACERAYS DHD100YAG NEODYMIUM YAG (ND YAG)	IV	1060	0.300	1.00	CIRC	1.00 J	MULTI 1.00 P/S	1.00 MS	2.59 J/CM2	MAT. PROCESSING
SPACERAYS 101 RUBY	IIIB	694.3	0.500	5.00	CIRC	0.100 TO 0.500 J	1.00 TO 30.0 P/S	50.0 MS 500	259 MJ/CM2 1.30 J/CM2	RESEARCH & OEM
SPACERAYS 101-3 RUBY/GLASS	IV	694.3 1064	0.600	4.00	CIRC	0.250 J 6.00	0.067 P/S	0.030 US 10.0 MS	648 MJ/CM2 15.6 J/CM2	RESEARCH & OEM
SPACERAYS 101-6 RUBY/GLASS	IV	694.3 1060	0.900	4.00	CIRC	1.00 J 25.0	1.00 P/S	0.030 US 1.00 MS	2.59 J/CM2 64.8	RESEARCH & OEM
SPACERAYS 150 ND-YAG Q-SWITCH	IV	1064	1.00	10.0	CIRC	30.0 W 500 W	AVER MULTI		76.2 W/CM2 1.27 KW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
SPACERAYS HD-200 RUBY	IV	694.3	0.900	6.00	CIRC	90.0 J	MULTI 1.00 P/S	2.00 MS	233 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
SPACERAYS 200SRI RUBY/GLASS	IV	694.3 1060	0.900	4.00	CIRC	50.0 J MULTI	0.067 P/S	1.00 MS	130 J/CM2	RESEARCH & OEM
SPACERAYS 400 NEODYMIUM YAG (ND YAG)	IV	1064	0.600	10.0	CIRC	25.0 W 250 W MULTI	TEM00 N/A		64.8 W/CM2 648	RESEARCH & OEM
SPACERAYS 500 NEODYMIUM YAG (ND YAG)	IV	1064	0.600	10.0	CIRC	50.0 W 500 W MULTI	TEM00 N/A		130 W/CM2 1.30 KW/CM2	RESEARCH & OEM
SPACERAYS 600 ND-YAG/GLASS	IV	1064	1.00	10.0	CIRC	5.00 J 10.0	1.00 P/S 10.0	0.500 MS 5.00	12.7 J/CM2 25.4	RESEARCH & OEM
SPACERAYS LP-710 NEODYMIUM YAG (ND YAG)	IV	1064	0.900	5.00	CIRC	150 J	1.00 P/S	1.00 MS	389 J/CM2	RESEARCH & OEM
SPACERAYS HD-1000 RUBY	IV	694.3	0.900	5.00	CIRC	150 J	1.00 P/S	8.00 MS	389 J/CM2	RESEARCH & OEM
SPACERAYS 1010C RUBY	IV	694.3	1.00	7.00	CIRC	10.0 TO 100 J	1.00 TO 20.0 P/S	1.00 MS 10.0	25.4 J/CM2 254	RESEARCH & OEM
SPACERAYS 1010-C RUBY-YAG	IV	694.3 TO 1100	0.900	3.00 5.00	CIRC	30.0 J	10.0 P/S	1.00 MS	77.8 J/CM2	RESEARCH & OEM
SPACERAYS 1010-C2 RUBY-YAG	IV	694.3 TO 1100	0.900 0.150	3.00 5.00	CIRC CIRC	150 J	2.00 P/S	1.00 MS	389 J/CM2	RESEARCH & OEM
SPACERAYS 1010-2 RUBY OR ND	IV	694.3 1064				100 J	2.00 TO 1200 P/M	0.500 MS 8.00	259 J/CM2	RESEARCH & OEM
SPACERAYS 1020 RUBY OR ND	IV	694.3 1064				200 J	3600 P/M	0.500 MS 8.00	518 J/CM2	RESEARCH & OEM
SPACERAYS 1020-C2 RUBY-YAG	IV	694.3 TO 1100	0.900 0.150	5.00	CIRC CIRC	350 J	1.00 P/S	1.00 MS	907 J/CM2	RESEARCH & OEM
SPACERAYS W300 NEODYMIUM YAG (ND YAG)	IV	1060	0.600	6.00	CIRC	10.0 J 100	1.00 TO 10.0 P/S	0.100 MS 1.00	25.9 J/CM2 259	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
SPACERAYS 5600 ARGON (AR)	IV	480.0 TO 515.0	0.300		CIRC	1.00 TO 2.00 W		N/A	2.59 W/CM2 5.18	RESEARCH & OEM
SPACERAYS 5800 ARGON (AR)	IV	480.0 TO 515.0	0.300		CIRC	3.00 TO 5.00 W		N/A	7.78 W/CM2 13.0	RESEARCH & OEM
SPECTRA PHYSICS GEODELITE 3A HELIUM NEON (HENE)	IIIB	632.8		1.00		24.0 MW TEM00		N/A	62.2 MW/CM2	DIST. METER
SPECTRA PHYSICS GEODOLITE 3G HELIUM NEON (HENE)	IIIB	632.8	0.700	0.140	CIRC	12.3 MW		N/A	31.9 MW/CM2	DIST. METER 7 KM CAUTION 280 M HAZARD
SPECTRA PHYSICS LT3 HELIUM NEON (HENE)	IIIB	632.8				4.00 MW TEM00 7.00		N/A	10.4 MW/CM2 18.1	DIST. METER 50 M HAZARD RNG 7 KM CAUTION RNG
SPECTRA PHYSICS 110 HELIUM NEON (HENE)	IIIB	632.8	0.400	0.150	CIRC	3.00 MW		N/A	7.78 MW/CM2	RESEARCH & OEM
SPECTRA PHYSICS 112 HELIUM NEON (HENE)	IIIB	632.8	0.450	0.250	CIRC	30.0 MW TEM00		N/A	77.8 MW/CM2	RESEARCH & OEM
SPECTRA PHYSICS 115 HELIUM NEON (HENE)	IIIB	632.8 1153 3391	0.300	0.300	CIRC	2.00 MW 1.20 MW TEM00		N/A	56.4 MW/CM2 33.9	RESEARCH & OEM
SPECTRA PHYSICS 116 HELIUM NEON (HENE)	IIIB	3390				30.0 MW AVER		N/A	3.81 W/CM2	RESEARCH & OEM
SPECTRA PHYSICS 119 HELIUM NEON (HENE)	II	632.8	0.100	10.0	CTRC	0.100 MW TEM00 0.300 MW MAX		N/A	259 UW/CM2 778	RESEARCH & OEM FREQ. STANDARD
SPECTRA PHYSICS 120 HELIUM NEON (HENE)	IIIR	632.8	0.080	1.00	CIRC	5.00 MW TEM00 8.00 MW MAX		N/A	13.0 MW/CM2 20.7	RESEARCH & OEM
SPECTRA PHYSICS 120T HELIUM NEON (HENE)	IIIB	632.8				4.00 MW TEM00 7.50		N/A	10.4 MW/CM2 19.4	RESEARCH & OEM
SPECTRA PHYSICS 122 HELIUM NEON (HENE)	IIIB	632.8				3.00 MW MULTI		N/A	7.78 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
SPECTRA PHYSICS 123 HELIUM NEON (HENE)	IIIB	632.8	0.900	1.30	CIRC	7.00 MW TEM00		N/A	18.1 MW/CM <sup>2</sup>	RESEARCH & OEM
SPECTRA PHYSICS 124 HELIUM NEON (HENE)	IIIB	3390	0.110	1.00	CIRC	15.0 MW 30.0 MW MAX		N/A	1.90 W/CM <sup>2</sup> 3.81	RESEARCH & OEM
SPECTRA PHYSICS 124A HELIUM NEON (HENE)	IIIB	632.8 3391 1152	0.110	1.00	CIRC	15.0 MW TEM00		N/A	1.90 W/CM <sup>2</sup>	RESEARCH & OEM
SPECTRA PHYSICS 125 HELIUM NEON (HENE)	IIIB	3390	0.200	0.700	CIRC	50.0 MW 100 MW MAX		N/A	3.17 W/CM <sup>2</sup> 6.35	RESEARCH & OEM
SPECTRA PHYSICS 125A HELIUM NEON (HENE)	IIIB	632.8 3391 1152	0.700	7.00	CIRC	50.0 MW TEM00		N/A	259 MW/CM <sup>2</sup>	RESEARCH & OEM
SPECTRA PHYSICS 126 HELIUM NEON (HENE)	IIIB	632.8		1.70		3.00 MW TEM00		N/A	7.78 MW/CM <sup>2</sup>	RESEARCH & OEM
SPECTRA PHYSICS 130 HELIUM NEON (HENE)	IIIB	632.8	0.140	0.700	CIRC	2.00 MW TEM00 0.100 MW TEM00		N/A	5.18 MW/CM <sup>2</sup> 259 UW/CM <sup>2</sup>	RESEARCH & OEM
SPECTRA PHYSICS 130B HELIUM NEON (HENE)	IIIB	632.8	0.140	0.700	CIRC	1.50 MW TEM00		N/A	3.89 MW/CM <sup>2</sup>	RESEARCH & OEM
SPECTRA PHYSICS 131 HELIUM NEON (HENE)	IIIB	632.8	0.120	0.700	CIRC	2.00 MW TEM00		N/A	5.18 MW/CM <sup>2</sup>	RESEARCH & OEM
SPECTRA PHYSICS 132 HELIUM NEON (HENE)	IIIB	632.8	0.090	1.00	CIRC	2.00 MW TEM00 4.00 MW MAX		N/A	5.18 MW/CM <sup>2</sup> 10.4	RESEARCH & OEM
SPECTRA PHYSICS 132M HELIUM NEON (HENE)	IIIB	632.8	0.100	5.00	CIRC	3.50 MW MULTY 6.00 MW MAX		N/A	9.07 MW/CM <sup>2</sup> 15.6	RESEARCH & OEM
SPECTRA PHYSICS 132-1 HELIUM NEON (HENE)	IIIB	632.8				1.10 MW TEM00 1.90		N/A	2.85 MW/CM <sup>2</sup> 4.92	RESEARCH & OEM
SPECTRA PHYSICS 133 HELIUM NEON (HENE)	IIIB	632.8	0.090	1.00	CIRC	2.00 MW TEM00 4.00 MW MAX		N/A	5.18 MW/CM <sup>2</sup> 10.4	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
SPECTRA PHYSICS 133M HELIUM NEON (HeNe)	IIIB	632.8		5.00		3.50 MW TEM00 7.00 MW MAX		N/A	9.07 MW/CM2 18.1	RESEARCH & OEM
SPECTRA PHYSICS 133P HELIUM NEON (HeNe)	IIIB	632.8	0.070	1.20	CIRC	1.80 MW TEM00 4.00 MW MAX		N/A	4.67 MW/CM2 10.4	RESEARCH & OEM
SPECTRA PHYSICS 134 HELIUM NEON (HeNe)	IIIB	632.8	0.080	1.10	CIRC	5.00 MW TEM00 8.00 MW MAX		N/A	13.0 MW/CM2 20.7	RESEARCH & OEM
SPECTRA PHYSICS 134-3 HELIUM NEON (HeNe)	IIIB	632.8	0.020	1.10	CIRC	3.00 MW		N/A	7.78 MW/CM2	RESEARCH & OEM
SPECTRA PHYSICS 134-3 HELIUM NEON (HeNe)	IIIB	632.8	0.800	1.10	CTRC	3.00 MW		N/A	7.78 MW/CM2	RESEARCH & OEM
SPECTRA PHYSICS 134-4 HELIUM NEON (HeNe)	IIIB	632.8	0.020	1.10	CIRC	4.00 MW		N/A	10.4 MW/CM2	RESEARCH & OEM
SPECTRA PHYSICS 134-4 HELIUM NEON (HeNe)	IIIB	632.8	0.800	1.10	CIRC	4.00 MW		N/A	10.4 MW/CM2	RESEARCH & OEM
SPECTRA PHYSICS 134-5 HELIUM NEON (HeNe)	IIIB	632.8	0.800	1.10	CIRC	5.00 MW		N/A	13.0 MW/CM2	RESEARCH & OEM
SPECTRA PHYSICS 135 HELIUM NEON (HeNe)	IIIB	632.8	0.080	1.10	CIRC	5.00 MW TEM00 8.00 MW MAX		N/A	13.0 MW/CM2 20.7	RESEARCH & OEM
SPECTRA PHYSICS 135-3 HELIUM NEON (HeNe)	IIIB	632.8	0.080	1.10	CIRC	3.00 MW TEM00		N/A	7.78 MW/CM2	RESEARCH & OEM
SPECTRA PHYSICS 135-4 HELIUM NEON (HeNe)	IIIB	632.8	0.080	1.10	CIRC	4.00 MW TEM00		N/A	10.4 MW/CM2	RESEARCH & OEM
SPECTRA PHYSICS 135-5 HELIUM NEON (HeNe)	IIIB	632.8	0.080	1.10	CIRC	5.00 MW TEM00		N/A	13.0 MW/CM2	RESEARCH & OEM
SPECTRA PHYSICS 135-5 HELIUM NEON (HeNe)	IIIB	632.8	0.020	1.10	CIRC	3.00 MW TEM00		N/A	7.78 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
SPECTRA PHYSICS 136 HELIUM NEON (HENE)	IIIB	632.8	0.050	1.60	CIRC	2.80 MW TEM00	N/A		7.26 MW/CM <sup>2</sup>	SCIENTIFIC INSTR.
SPECTRA PHYSICS 136P HELIUM NEON (HENE)	IIIB	632.8	0.050	1.60	CIRC	2.80 MW TEM00	N/A		7.26 MW/CM <sup>2</sup>	SCIENTIFIC INSTR.
SPECTRA PHYSICS 137 HELIUM NEON (HENE)	IIIB	632.8	0.050	1.60	CIRC	2.80 MW TEM00	N/A		7.26 MW/CM <sup>2</sup>	SCIENTIFIC INSTR.
SPECTRA PHYSICS 137P HELIUM NEON (HENE)	IIIB	632.8	0.050	1.60	CIRC	2.80 MW TEM00	N/A		7.26 MW/CM <sup>2</sup>	SCIENTIFIC INSTR.
SPECTRA PHYSICS 138 HELIUM NEON (HENE)	IIIB	632.8	0.050	1.60	CIRC	2.80 MW TEM00	N/A		7.26 MW/CM <sup>2</sup>	SCIENTIFIC INSTR.
SPECTRA PHYSICS 138P HELIUM NEON (HENE)	IIIB	632.8	0.050	1.60	CIRC	2.80 MW TEM00	N/A		7.26 MW/CM <sup>2</sup>	SCIENTIFIC INSTR.
SPECTRA PHYSICS 140 ARGON (AR)	IV	514.5 TO 465.8				2.00 W MULTI	N/A		5.18 W/CM <sup>2</sup>	RESEARCH & OEM
SPECTRA PHYSICS 141 ARGON (AR)	IIIB	488.0 TO 514.5	0.160	0.700	CIRC	250 MW MULTI	N/A		6.98 MW/CM <sup>2</sup>	RESEARCH & OEM
SPECTRA PHYSICS 156 HELIUM NEON (HENE)	IIIB	632.8	0.880	1.00	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
SPECTRA PHYSICS 155 HELIUM NEON (HENE)	IIIB	632.8	0.088	1.00	CIRC	0.500 MW TEM00 2.00 MW MAX	N/A		1.30 MW/CM <sup>2</sup> 5.18	RESEARCH & OEM
SPECTRA PHYSICS 162 ARGON (AR)	IIIB	458.0 TO 558.0	0.065	1.00	CIRC	10.0 MW TEM00	N/A		25.9 MW/CM <sup>2</sup>	RESEARCH & OEM
SPECTRA PHYSICS 162-00 ARGON (AR)	IIIB	514.5 TO 488.0		1.00		10.0 MW TEM00 15.0 MW MAX	N/A		25.9 MW/CM <sup>2</sup> 38.9	RESEARCH & OEM
SPECTRA PHYSICS 162-1 ARGON (AR)	IIIB	351.0	(.1)			6.00 MW AVER 15.0			762 MW/CM <sup>2</sup> 1.90 W/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
SPECTRA PHYSICS 162-02 ARGON (AR)	IIIB	514.5 TO 488.0				10.0 MW TEM00 16.0 MW MAX	N/A		25.9 MW/CM2 41.5	RESEARCH & OEM
SPECTRA PHYSICS 164-00 ARGON (AR)	IIIB	457.0 TO 514.5		0.500		2.00 MW TEM00 6.00 MW MAX	N/A		5.18 MW/CM2 15.6	RESEARCH & OEM
SPECTRA PHYSICS 164-01M KRYPTON (KR)	IV	351.0				1.00 W TEM00 1.35	N/A		127 W/CM2 171	RESEARCH & OEM
SPECTRA PHYSICS 164-01 KRYPTON (KR)	IV	350.0 TO 356.0	0.150 0.130	0.500	CIRC CIRC	40.0 MW 2.50 W MAX	N/A		5.08 W/CM2 318	RESEARCH & OEM
SPECTRA PHYSICS 164-02 ARGON (AR)	IIIB	457.0 TO 514.5		(.1) 0.500		200 MW AVER			518 MW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
SPECTRA PHYSICS 164-03 ARGON (AR)	IIIB	351.0 TO 363.0	0.150 0.100	0.500	CIRC CIRC	20.0 MW	N/A		2.54 W/CM2	RESEARCH & OEM
SPECTRA PHYSICS 165-00 ARGON (AR)	IV	457.0 TO 514.5		0.500		2.00 W TEM00 6.00 W MAX	N/A		5.18 W/CM2 15.6	RESEARCH & OEM
SPECTRA PHYSICS 165-00M AR-KR	IV	458.0 TO 558.0				4.60 W TEM00	N/A		11.9 W/CM2	RESEARCH & OEM
SPECTRA PHYSICS 165-01 KRYPTON (KR)	IV	350.0 TO 356.0	0.150 0.130	0.500	CIRC CIRC	40.0 MW 2.00 W MAX	N/A		5.08 W/CM2 254	RESEARCH & OEM
SPECTRA PHYSICS 165-02 MIXED GAS	IV	450.0 TO 680.0		0.500		200 MW TEM00 2.00 W MAX	N/A		518 MW/CM2 5.18 W/CM2	RESEARCH & OEM
SPECTRA PHYSICS 165-03 KRYPTON (KR)	IV	351.0 TO 363.0	0.150 0.130	0.500	CIRC CIRC	1.00 W TEM00 8.00 W MAX	N/A		127 W/CM2 1.02 KW/CM2	RESEARCH & OEM
SPECTRA PHYSICS 166-00 ARGON (AR)	IV	514.0 TO 457.0	0.130	0.500	CIRC	2.00 W TEM00	N/A		5.18 W/CM2	RESEARCH & OEM
SPECTRA PHYSICS 166-01 KRYPTON (KR)	IV	799.0 TO 572.0	0.200	1.00	CIRC	1.00 W TEM00	N/A		2.59 W/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
SPECTRA PHYSICS 166-02 AR-KR	IV	514.0	0.130	0.500	CIRC	1.10 W TEM00 1.00	N/A		2.85 W/CM2 2.59	RESEARCH & OEM
SPECTRA PHYSICS 166-03 AR-ION	IV	514.0 TO 457.0	0.130	0.130	CIRC	4.00 W 8.00 W MAX	N/A		10.4 W/CM2 20.7	RESEARCH & OEM
SPECTRA PHYSICS 166/365 KRYPTON (KR)	IV	350.7 TO 356.4	0.150	0.500	CIRC	1.00 UJ	20.0 MHZ	15.0 NS	113 UJ/CM2	RESEARCH & OEM
SPECTRA PHYSICS 166/365 ARGON (AR)	IV	351.1 TO 363.8	0.150	0.500	CIRC	1.00 UJ	20.0 MHZ	15.0 NS	113 UJ/CM2	RESEARCH & OEM
SPECTRA PHYSICS 166/366 AR-KR	IIIB	514.0	(.1)			200 W PEAK	500 TO 5000 P/S	1.50 NS	778 NJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
SPECTRA PHYSICS 170 ARGON (AR)	IV	458.0 TO 515.0	0.160	0.600	CIRC	15.0 W PEAK 26.0 W	N/A		67.4 W/CM2	RESEARCH & OEM
SPECTRA PHYSICS 170-00 ARGON (AR)	IIIB	351.1 TO 363.8	0.160	0.600	CIRC	140 MW TEM00	N/A		13.9 W/CM2	RESEARCH & OEM
SPECTRA PHYSICS 170-03 ARGON (AR)	IV	351.1 TO 363.8	0.160	0.600	CIRC	740 MW TEM00	N/A		73.4 W/CM2	RESEARCH & OEM
SPECTRA PHYSICS 170-04 ARGON (AR)	IIIB	351.0				300 MW TEM00	N/A		38.1 W/CM2	RESEARCH & OEM
SPECTRA PHYSICS 170-05 ARGON (AR)	IV	351.0				1.00 W TEM00	N/A		127 W/CM2	RESEARCH & OEM
SPECTRA PHYSICS 185 HELIUM CADMIUM (HECD)	IIIB	441.6 TO 325.0	0.150	0.500	CIRC	50.0 MW TEM00 120 MW MAX	N/A		5.64 W/CM2 13.5	RESEARCH & OEM
SPECTRA PHYSICS 330 HELIUM NEON (HENE)	II	632.8	0.100	0.800	CIRC	0.500 MW TEM00	N/A		1.30 MW/CM2	RESEARCH & OEM
SPECTRA PHYSICS 340 HELIUM NEON (HENE)	IIIB	632.8	0.140	0.800	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
SPECTRA PHYSICS 341 HELIUM NEON (HENE)	IIIB	632.8	0.140	0.800	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM2	RESEARCH & OEM
SPECTRA PHYSICS 351 HELIUM NEON (HENE)	IIIB	632.8	0.160	0.700	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM2	RESEARCH & OEM
SPECTRA PHYSICS 361 HELIUM NEON (HENE)	IIIB	632.8	0.160	0.700	CIRC	4.00 MW TEM00	N/A		10.4 MW/CM2	RESEARCH & OEM
SPECTRA PHYSICS 370 ORGANIC DYE	IIIR	440.0 TO 650.0	0.370	0.200	CIRC	250 MW MAX	N/A		648 MW/CM2	RESEARCH & OEM
SPECTRA PHYSICS 375 DYE-RODAMINE 6G	IV	625.0				9.00 W TEM00	N/A		23.3 W/CM2	RESEARCH & OEM
SPECTRA PHYSICS 580 ORGANIC DYE		440.0 TO 650.0	0.370	0.200	CIRC/VARIE		N/A			RESEARCH & OEM INSUFFICIENT INFORMATION
SPECTRA PHYSICS 580-A ORGANIC DYE	IIIB	585.0	0.050	1.50	CIRC	100 MW TEM00	N/A		259 MW/CM2	RESEARCH & OEM
SPECTRA PHYSICS 611 HELIUM NEON (HENE)	IIIB	632.8	3.30	0.060	CIRC	1.00 MW TEM00 5.00 MW MAX	N/A		233 UW/CM2 1.17 MW/CM2	LEVELING/ALIGNMENT
SPECTRA PHYSICS 655 HELIUM NEON (HENE)	IIIB	632.8				1.00 MW TEM00 2.20	N/A		2.59 MW/CM2 5.70	LEVELING/ALIGNMENT
SPECTRA PHYSICS SP-700 RAMAN SPECT HELIUM NEON (HENE)	IIIB ENCL	632.8				15.0 MW	N/A		38.9 MW/CM2	RESEARCH & OEM CLASS I AS ENCLOSED
SPECTRA PHYSICS 833 TUNNEL LASER HELIUM NEON (HENE)	IIIB	632.8				1.20 MW TEM00 2.20	N/A		3.11 MW/CM2 5.70	LEVELING/ALIGNMENT
SPECTRA PHYSICS 840 ROTOLITE HELIUM NEON (HENE)	IIIB	632.8				1.40 MW 4.00 MW MAX	N/A		3.63 MW/CM2 10.4	LEVELING/ALIGNMENT
SPECTRA PHYSICS 842 ROTOLITE HELIUM NEON (HENE)	IIIB	632.8	0.310		CIRC	2.50 MW 4.00 MW MAX	N/A		6.48 MW/CM2 10.4	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVFR- GENC (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
SPECTRA PHYSICS 910 HE-NE MODULATED	II	632.8	0.210	0.500	CIRC	0.900 MW TEM00		N/A	2.33 MW/CM2	RESEARCH & OEM
SPECTRA PHYSICS 855 DIAL-A-GRADE HELIUM NEON (HENE)	IIIB	632.8	0.600		CIRC	1.00 MW TEM00 2.40		N/A	2.59 MW/CM2 6.22	LEVELING/ALIGNMENT
SPECTRA PHYSICS 944 LASER LEVEL SL HE NE	IIIB	632.8	0.660		CIRC	2.50 MW 3.00 MW MAX		N/A	6.48 MW/CM2 7.78	LEVELING/ALIGNMENT
SPECTRA PHYSICS 955-SL HELIUM NEON (HENE)	IIIB	632.8				1000 W TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
SPERRY 010-1 DIODE GA-AS		916.0				10.0 W PEAK				RESEARCH & OEM INSUFFICIENT INFORMATION
SPERRY 014-1 DIODE GA-AS		916.0				14.0 W PEAK				RESEARCH & OEM INSUFFICIENT INFORMATION
SPERRY 014-1 DIODE GA-AS		916.0				18.0 W PEAK				RESEARCH & OEM INSUFFICIENT INFORMATION
SPERRY 030-D-01 GA-AS		916.0				30.0 W PEAK				RESEARCH & OEM INSUFFICIENT INFORMATION
SPERRY 3-1 ARGON (AR)	IIIB	457.0 TO 514.0				0.250 W		N/A	648 MW/CM2	RESEARCH & OEM
SPERRY LA0200-1 GA-AS		916.0				200 W PEAK				RESEARCH & OEM INSUFFICIENT INFORMATION
SPERRY LA0400-1 GA-AS		916.0				400 W PEAK				RESEARCH & OEM INSUFFICIENT INFORMATION
SPERRY LA0800-1 GA-AS		916.0				800 W PEAK				RESEARCH & OEM INSUFFICIENT INFORMATION
STABILIZED OPTICS L7-5 TRANSMITTER NOT GIVEN	IV	905.0		10.0		5.00 W AVFR	1.00 TO 20000 P/S	15.0 NS	13.0 J/CM2	COMMUNICATOR

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
SYLVANIA 605 NEODYMIUM YAG (ND YAG)	IV	1064				0.250 W TEM00 1.00 W MULTI			648 W/CM2 2.59 W/CM2	RESEARCH & OEM
SYLVANIA 606 NEODYMIUM YAG (ND YAG)	IV	1064				0.500 W TEM00 5.00 W MULTI			1.30 W/CM2 13.0	RESEARCH & OEM
SYLVANIA 607 NEODYMIUM YAG (ND YAG)	IV	1064				2.50 W AVER 10.0 W MULTI			6.48 W/CM2 25.9	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
SYLVANIA 610 NEODYMIUM YAG (ND YAG)	IV	1064	0.600	2.00	CIRC	1.00 W TEM00 5.00 W MULTI			2.59 W/CM2 13.0	RESEARCH & OEM
SYLVANIA 611 NEODYMIUM YAG (ND YAG)	IV	1064	0.600	15.0	CIRC	125 W MULTI			324 W/CM2	RESEARCH & OEM
SYLVANIA 612 NEODYMIUM YAG (ND YAG)	IV	1064	0.600	15.0	CIRC	200 W MULTI			518 W/CM2	RESEARCH & OEM
SYLVANIA 615 NEODYMIUM YAG (ND YAG)	IV	1064	0.600	4.00	CIRC	0.500 J	25.0 P/S	0.100 MS	1.30 J/CM2	RESEARCH & OEM
SYLVANIA 941 P & S CARBON DIOXIDE (CO2)	IV	10600	0.500	5.00	CIRC	3.00 W TEM00			30.5 W/CM2	RESEARCH & OEM
SYLVANIA 948 CARBON DIOXIDE (CO2)	IV	10600	0.600	5.00	CIRC	5.00 W TEM00 10.0 W MULTI			35.3 W/CM2 70.5	RESEARCH & OEM
SYLVANIA ELEC PROD 948 CARBON DIOXIDE (CO2)	IV	10600	0.600	5.00	CIRC	5.00 W TEM00			35.3 W/CM2	RESEARCH & OEM
SYLVANIA 948-1 CARBON DIOXIDE (CO2)	IV	10600	0.600	5.00	CIRC	10.0 W TEM00			70.5 W/CM2	RESEARCH & OEM
SYLVANIA 950A OR B CARBON DIOXIDE (CO2)	IV	10170 TO 10810				5.00 W TEM00			635 W/CM2	RESEARCH & OEM
SYLVANIA 970 CARBON DIOXIDE (CO2)	IV	10600	0.600	5.00	CIRC	10.0 W TEM00			70.5 W/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSF WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
SYLVANIA 971 CARBON DIOXIDE (CO2)	IV	10600				100 W		N/A	12.7 KW/CM2	RESEARCH & OEM
SYLVANIA 1610 LASER WELDER NEODYMIUM YAG (ND YAG)	IV	1064				2.50 W AVER 10.0 W MULTI			6.48 W/CM2 25.9	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
SYLVANIA SGL-62111A HELIUM NEON (HENE)	IIIB	632.8 1153 3390				15.0 MW 6.00 MW TEM00		N/A	1.90 W/CM2 762 MW/CM2	RESEARCH & OEM
SYLVANIA S6L-62111A HELIUM NEON (HENE)	IIIB	632.8 1153 3390				15.0 MW TEM00		N/A	1.90 W/CM2	RESEARCH & OEM
SYLVANIA SGL-62111B HELIUM NEON (HENE)	IIIB	632.8 1153 3390				15.0 MW TEM00		N/A	1.90 W/CM2	RESEARCH & OEM
SYLVANIA SGL-62111B HELIUM NEON (HENE)	IIIB	632.8 1153 3390				15.0 MW 8.00 6.00 MW TEM00		N/A	1.90 W/CM2 1.02 762 MW/CM2	RESEARCH & OEM
SYNERGETICS RESEAR 370 ORGANIC DYE	IV	440.0 TO 650.0	0.400	2.00	CIRC	20.0 KW PEAK	5.00 P/S	1100 NS	57.0 MJ/CM2	RESEARCH & OEM
SYNERGETICS RESEAR 371 DYE/FLASHLAMP	IIIB	400.0 TO 670.0	0.500	3.00	CIRC	50.0 MW AVER 5.00 KW PEAK	1.00 TO 15.0 P/S		130 MW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
SYNERGETICS RESEAR 500 DYE	IV	720.0 TO 1000	1.00	0.500	CIRCO	100 J 5.00 MW AVER		10.0 NS 30.0	254 MJ/CM2 12.7	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
SYNERGETICS RESEAR 1000 DYE	IIIB	560.0 TO 620.0	0.200	1.00	CIRCO	0.500 W MULTI		N/A	1.30 W/CM2	RESEARCH & OEM
SYNERGETICS RESEAR 1020 DYE	IIIB	340.0 TO 400.0	0.400	5.00	CIRC	5.00 MJ	1.00 P/S	0.200 US	79.4 MJ/CM2	RESEARCH & OEM
SYNERGETICS RESEAR 1050 DYE	IV	430.0 TO 700.0	0.800	5.00	CIRC	500 KW PEAK	0.050 P/S	500 NS	648 MJ/CM2	RESEARCH & OEM
SYNERGETICS RESEAR SHG-1070 DYE	IIIB	270.0 TO 310.0	0.500	5.00	CIRC	2.00 MJ	1.00 P/S	0.400 US	20.3 MJ/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (M RAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS	
SYNERGETICS RESEAR 1080 ORGANIC DYE	IV	340.0 TO 690.0	0.500	3.00	CIRC	500 KW PEAK	10.0 P/S	200 NS	1.02 J/CM2	RESEARCH & OEM	
SYNERGETICS RESEAR 2000 ORGANIC DYE	IV	440.0 TO 680.0	1.00	6.00	CIRC	1500 KW PEAK	0.050 TO 0.500 P/S	1.00 US	3.81 J/CM2	RESEARCH & OEM	
SYNERGETICS RESEAR SHG-2000 DYE	IIIR	270.0 TO 310.0	0.800	5.00	CIRC	10.0 MJ	0.050 P/S	1.00 US	39.7 MJ/CM2	RESEARCH & OEM	
SYSTEM SCI. + SOFT KW-50 PUMP NITROGEN (N2)	IIIB	337.1	(.1)			50.0 KW PEAK 0.500 MJ	100 P/S	5.00 NS 20.0	127 MJ/CM2 63.5	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION	
SYSTEM SCI. + SOFT KW-150 PUMP NITROGEN (N2)	IIIB	337.1	(.1)			150 KW PEAK 1.50 MJ	100 P/S	5.00 NS 20.0	381 MJ/CM2 190	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION	
SYSTEM SCI. + SOFT DL-600 PUMPED DYE TUNABLE		360.0 TO 740.0								RESEARCH & OEM INSUFFICIENT INFORMATION	
SYSTEM SCI. + SOFT DL-8 DYE TUNABLE		360.0 TO 740.0								RESEARCH & OEM INSUFFICIENT INFORMATION	
SYSTEMATION NONE CARBON DIOXIDE (CO2)	IV	10600	5.00	0.500	CIRC	1000 W 1500 W	AVER MULTI	3000 P/S TO	33.9 MJ/CM2 50.8	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION	
SYSTEMATION ILS-5000 NEODYMIUM GLASS	IV ENCL	1060	1.00	8.00	CIRC	150 J		1.00 TO 10.0 P/S	0.125 TO 1.00	381 W/CM2 3.81 KW/CM2	MAT. PROCESSING CLASS I AS ENCLOSED
SYSTEMATION ILS-500W NEODYMIUM GLASS	IV ENCL	1060	1.00	8.00	CIRC	1.00 J 500		0.100 TO 10.0 P/S	1.25 MS 10.0	2.54 J/CM2 1.27 KJ/CM2	MAT. PROCESSING CLASS I AS ENCLOSED
TACHISTO 215A CARBON DIOXIDE (CO2)	IV	10600	0.600	3.00	CIRC	15.0MGW PEAK 2.00 J	MULTI	0.200 TO 2.00 P/S	30.0 NS 50.0	5.29 J/CM2 14.1	RESEARCH & OEM
TACHISTO 215-G TEA UV-PREIONIZED W321 CRYSTAL TRIM ND YAG AND HE-NE CONTROL MODEL H507 ND YAG AND MODEL 88 HE-NE LASERS USED	IV 1064	921.0 TO 1083				10.0MGW PEAK		2.00 P/S	40.0 NS	1.04 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
TACHISTO TAC II-M215A CARBON DIOXIDE (CO2)	IV	10600	0.600	3.00	CIRC	15.0MGW PEAK 2.00 J	0.200 TO 2.00 P/S	30.0 NS 50.0	5.29 J/CM2 19.1	RESEARCH & OEM
TECH-OPS HOLOGRAM SYSTEM RUBY Q-SW		694.3					1.00 P/M	20.0 NS		HOLOGRAPHY INSUFFICIENT INFORMATION
TERADYNE W233 UNITRIMMER ND YAG AND HE-NE CONTROL MODEL H507 ND YAG AND MODEL #8 HE-NE LASERS USED	IIIB	632.8 1064	(.1)			2.70 MW MAX			7.00 MW/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
TERADYNE W311 LASER TRIMMER ND YAG AND HE-NE CONTROL MODEL H507 ND YAG AND MODEL #8 HE-NE LASERS USED	IIIB	632.8 1064	(.1)			2.70 MW MAX			7.00 MW/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
TEXAS INSTRUMENTS TIXL28 GA-AS	IV	500.0				7.00 W PEAK	3000 P/S	0.800 MS	14.5 MJ/CM2	RESEARCH & OEM
TEXAS INSTRUMENTS TIXL29 GA-AS	IIIB	900.0	(.1)			6.00 W PEAK	5000 P/S	0.300 US	4.67 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
TEXAS INSTRUMENTS TIXL30 GA-AS	IIIB	860.0	(.1)			7.00 W PEAK	20000 P/S	2.50 US	45.4 UJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
TOKYO SHIBAURA ELE LG-2301 ARGON (AR)	IIIB	514.0 TO 488.0	(.1)			100 MW AVER			259 MW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
TOKYO SHIBAURA ELE LG-2401 ARGON (AR)	IV	514.0 TO 488.0				0.500 W AVER 2.00			1.30 W/CM2 5.18	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
TOKYO SHIBAURA ELE LG-2502 ARGON (AR)		514.0 TO 488.0								RESEARCH & OEM INSUFFICIENT INFORMATION
TOKYO SHIBAURA ELE LG-31025 HELIUM NEON (HENE)	II	632.8	0.100	0.800	CTRC	0.500 MW TEM00	N/A		1.30 MW/CM2	RESEARCH & OEM
TOKYO SHIBAURA ELE LG-3103 HELIUM NEON (HENE)	IIIB	632.8	0.120	0.800	CTPC	1.10 MW TEM00	N/A		2.85 MW/CM2	RESEARCH & OEM
TOKYO SHIBAURA ELE LG-3203P HELIUM NEON (HENE)	IIIB	632.8	0.100	0.800	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVFR- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
TOKYO SHIBAURA ELE I11B LG-3204 HELIUM NEON (HENE)		632.8				1.00 MW TEM00		N/A	2.59 MW/CM <sup>2</sup>	RESEARCH & OEM
TOKYO SHIBAURA ELE I11B LG-3205 HELIUM NEON (HENE)		632.8				2.50 MW TEM00		N/A	6.48 MW/CM <sup>2</sup>	RESEARCH & OEM
TOKYO SHIBAURA ELE I11B LG-3206 HELIUM NEON (HENE)		632.8				5.00 MW TEM00		N/A	13.0 MW/CM <sup>2</sup>	RESEARCH & OEM
TOKYO SHIBAURA ELE I11B LG-3304 HELIUM NEON (HENE)		632.8				20.0 MW TEM00		N/A	51.8 MW/CM <sup>2</sup>	RESEARCH & OEM
TOKYO SHIBAURA ELE I11B LG-3305 HELIUM NEON (HENE)		632.8				60.0 MW TEM00		N/A	156 MW/CM <sup>2</sup>	RESEARCH & OEM
TRG INC HN-6 HELIUM NEON (HENE)	I11B	632.8				1.00 MW		N/A	2.59 MW/CM <sup>2</sup>	MAT. PROCESSING
TRG 103 RUBY	I11B	694.3	(.1)	10.0		25.0 MJ TEM00 0.600	6.00 P/M	5.00 MS	64.8 MJ/CM <sup>2</sup> 1.56	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
TRG 104 RUBY	IV	694.3				1.00 J 1.20	6.00 P/M	30.0 NS	2.59 J/CM <sup>2</sup> 3.11	RESEARCH & OEM
TRG 104A RUBY	IV	694.0	0.240	1.20	CIRC	100 MW AVER	1.00 P/M	10.0 US	259 MJ/CM <sup>2</sup>	RESEARCH & OEM
TRG 302-1 RUBY	IV	694.0	0.240	3.00 5.00	CIRC	800 MW AVER 95.0 J			2.07 W/CM <sup>2</sup> 246	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
TRG 302-2 RUBY	IV	694.3		3.00 5.00		0.300 KW PEAK 95.0 J			246 W/CM <sup>2</sup>	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
TRG 400R NEODYMIUM YAG (ND YAG)	IV	1064		1.00 2.00		15.0 W AVER 20.0			38.9 W/CM <sup>2</sup> 51.8	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
TRG 400R-Q NEODYMIUM YAG (ND YAG)		1064				8.00 KW PEAK				RESEARCH & OEM INSUFFICIENT INFORMATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
TRG 500RQ NEODYMIUM YAG (ND YAG)	IV	1064				10.0 W 15.0	AVER		25.9 W/CM <sup>2</sup> 38.9	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
TRG 513-BIOLASER RUBY	IIIB	694.3	(.1)			300 MJ			778 MW/CM <sup>2</sup>	MEDICAL PROVISIONAL -OSHA- CLASSIFICATION
TRICE V DEVELOPM. PLAN-O-LITE MOD.A HELIUM NEON (HENE)	IIIB	632.8	0.200 17.0	1.00 6280	RECT	3.50 MW		N/A	1.03 MW/CM <sup>2</sup>	LEVELING/ALIGNMENT
TRW 55A AR-KR	IV	568.0 TO 476.0				2.00 W 6.00 W	AVER MULTI	1000 P/S 100 US	5.18 MJ/CM <sup>2</sup> 15.6	RESEARCH & OEM
TRW A ARGON (AR)	IV	514.5 488.0	0.200	3.00	CIRC	3.00 W 1.20 6.00 W	AVER MULTI	1.00 TO 500 P/S 300 NS	7.78 J/CM <sup>2</sup> 3.11 15.6	RESEARCH & OEM
TRW B ARGON (AR)	IV	514.5 488.0	0.200	5.00	CIRC	1.00 W	AVER	1.00 TO 500 P/S 300 NS	2.59 J/CM <sup>2</sup>	RESEARCH & OEM
TRW 71A ARGON (AR)	IIIB	514.5 488.0 457.9	0.240		CIRC	6.00 MW	AVER	50.0 P/S 60.0	311 UJ/CM <sup>2</sup>	RESEARCH & OEM
TRW 71BR ARGON (AR)	IV	514.0 TO 488.0	0.240	5.50	CIRC	1.00 W 3.00 W	AVER MULTI	60.0 P/S 40.0 US	43.2 MJ/CM <sup>2</sup> 130	RESEARCH & OEM
TRW 71KR KRYPTON (KR)	IV	568.0 TO 476.0	0.240	5.50	CIRC	1.50 W 1.50 W	AVER MULTI	60.0 P/S 40.0 US	64.8 MJ/CM <sup>2</sup>	RESEARCH & OEM
TRW INSTRUMENTS 8 A ARGON (AR)	IV	514.5 488.0 457.9	0.240	5.00	CIRC	1.50 MW	AVER	50.0 P/S 60.0	77.8 MJ/CM <sup>2</sup>	RESEARCH & OEM
TRW 83A ARGON (AR)	IIIB	514.0 TO 457.0	0.240		CIRC	1.50 MW 5.00 W	AVER PEAK	60.0 P/S	3.89 MW/CM <sup>2</sup>	HOLOGRAPHY PROVISIONAL -OSHA- CLASSIFICATION
TRW 83AR ARGON (AR)	IV	514.0 TO 488.0	0.240	5.00	CIRC	1.60 W 5.00 W	AVER MULTI	60.0 P/S 6.00 US	69.1 MJ/CM <sup>2</sup> 216	HOLOGRAPHY
TRW 83XR XENON (XE)	IV	526.0 TO 339.0	0.240	5.00	CIRC	100 W 300 W	AVER MULTI	10.0 P/S 0.300 US	441 J/CM <sup>2</sup> 1.32 KJ/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENCE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
TRW 83XR-UV XENON (XE)	IV	364.0	0.240		CIRC	30.0 W 100 W AVER MULTI	10.0 P/S	0.300 US	132 J/CM2 441	RESEARCH & OEM
TRW 86A ARGON (AR)	IIIB	514.0 TO 488.0	0.240		CIRC	6.00 MW 6.00 W AVER PEAK	200 P/S		15.6 MW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
TRW 86AR ARGON (AR)	IV	514.0 TO 488.0	0.240	2.00	CIRC	2.00 W 6.00 W AVER MULTI	200 P/S	10.0 US 100	25.9 MJ/CM2 77.8	RESEARCH & OEM
TRW 100A ARGON (AR)	IIIB	514.0 TO 488.0	0.240		CIRC	0.100 W 1.00 W AVER PEAK	250 P/S		259 MW/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
TRW 109A XENON (XE)	IV	495.5	0.240	5.00	CIRC	90.0 W 27.0 KW AVER PEAK	10.0 P/S	0.500 US	23.3 J/CM2 35.0 MJ/CM2	RESEARCH & OEM
TRW 110A XENON (XE)	IV	526.0 TO 539.0		5.00		100 W 300 W AVER MULTI	10.0 TO 60.0 P/S	0.300 US	259 J/CM2 778 13.0	MAT. PROCESSING
TRW 110A X-MOTORIZED XENON (XE)	IIIB	495.4 TO 539.5	(.1)	0.360		300 W PEAK	1.00 P/S 10.0	0.300 US	233 UJ/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
TRW 110A IC TRIMMER XENON (XE)	IV	495.4 TO 539.5	0.300	0.300	CIRC	150 MJ	60.0 P/S	0.500 US	389 MJ/CM2	MAT. PROCESSING
TRW 110B X-Y MOTORIZED XENON (XE)	IIIB	495.4 TO 539.5	(.1)	0.360		300 W PEAK	5.00 P/S 65.0	0.300 US	233 UJ/CM2	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION
TRW 127A NEODYMIUM YAG (ND YAG)	IV	1064				1.50 KW PEAK 5.00 KW AVER	1.00 TO 100.0 P/S	200 NS	778 UJ/CM2 13.0 KJ/CM2 1.30 J/CM2	MAT. PROCESSING
TRW 130-4 SCRIBER CARBON DIOXIDE (CO2)		10600					N/A			MAT. PROCESSING INSUFFICIENT INFORMATION
TRW 300 SPECIAL RUBY AUTOCOLLIMAT.	IV	694.3		5.00		5.00 J 4.00	2.00 P/M 10.0	15.0 NS 20.0	13.0 J/CM2 10.4	RESEARCH & OEM
TRW 1012 NEODYMIUM YAG (ND YAG)	IV	1064		6.00		5.00 J	1.00 P/S	300 US	13.0 J/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVFR- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
TRW 1260 Q-SWITCHED RUBY	IV	694.3		5.00		1.00 J	4.00 P/M	20.0 NS	2.59 J/CM <sup>2</sup>	RESEARCH & OEM DIVERGENCE AT ONE HALF POWER POINT
TRW 1400 300-SPECIAL RUBY-AUTOCOLLIMAT.	IV	694.3		5.00		3.50 J	2.00 P/M	20.0 NS	9.07 J/CM <sup>2</sup>	RESEARCH & OEM
TRW 10100 RUBY	IV	694.3	0.900	10.0	CIRC	15.0 J	117 P/S	800 US	38.9 J/CM <sup>2</sup>	RESEARCH & OEM
TRW 10101 RUBY	IV	694.3	0.900	8.00	CIRC	20.0 J	117 P/S	800 US	51.8 J/CM <sup>2</sup>	RESEARCH & OEM
TRW 10102 RUBY	IV	694.3	0.900	16.0	CIRC	10.0 J	1.00 P/S	800 US	46.7 J/CM <sup>2</sup>	RESEARCH & OEM
TRW 10103 RUBY	IV	694.3	0.900	7.00	CIRC	15.0 J	0.117 P/S	800 US	38.9 J/CM <sup>2</sup>	RESEARCH & OEM
TRW 10104 RUBY	IV	694.3	0.900	4.00	CIRC	25.0 J	0.117 P/S	800 US	64.8 J/CM <sup>2</sup>	RESEARCH & OEM
TRW 10105 RUBY	IV	694.3	0.900	6.00	CIRC	18.0 J	1.00 P/S	800 US	46.7 J/CM <sup>2</sup>	RESEARCH & OEM
TRW 10109 RUBY	IV	694.3	1.40	12.0	CIRC	25.0 J	0.117 P/S	800 US	32.4 J/CM <sup>2</sup>	RESEARCH & OEM
TRW 10110 RUBY	IV	694.3	1.40	5.00	CIRC	30.0 J	0.117 P/S	800 US	38.9 J/CM <sup>2</sup>	RESEARCH & OEM
TRW 10115 ND	IV	1060		1.00 4.00		60.0 J	0.033 P/S	900 US	156 J/CM <sup>2</sup>	RESEARCH & OEM
TRW 10200 RUBY	IV	694.3	0.900		CIRC	1.50 J	0.117 P/S	15.0 US 25.0 NS	3.89 J/CM <sup>2</sup>	RESEARCH & OEM
TRW 10201 RUBY	IV	694.3	0.900	4.00	CIRC	1.50 J	0.117 P/S	15.0 NS 25.0	3.89 J/CM <sup>2</sup>	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
TRW 10202 RUBY	IV	694.3	0.900	7.00	CIRC	1.00 J	1.00 P/S	15.0 NS 25.0	2.59 J/CM2	RESEARCH & OEM
TRW 10203 RUBY	IV	694.3	1.40	5.00	CIRC	2.00 J	0.117 P/S	15.0 NS 25.0	2.59 J/CM2	RESEARCH & OEM
TRW 10204 RUBY	IV	694.3	1.40	4.00	CIRC	2.00 J	0.117 P/S	15.0 NS 25.0	2.59 J/CM2	RESEARCH & OEM
TRW 10216 RUBY	IV	694.3	1.40	5.00	CIRC	1.00 J	0.117 P/S	15.0 US 25.0 NS	1.30 J/CM2	RESEARCH & OEM
TRW 10220 NEODYMIUM GLASS	IV	1060	1.30	3.00	CIRC	2.50 J	0.033 P/S	0.030 US 0.020	3.76 J/CM2	RESEARCH & OEM
TRW 10235 RUBY	IV	694.3	(.1)	1.00		0.050 J	0.117 P/S	0.020 US 0.030 TO	130 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
TRW 10250 RUBY	IV	694.3	0.500	6.00	CIRC	2.00 J	1.00 P/S	800 US	5.18 J/CM2	RESEARCH & OEM
TRW 10257 RUBY	IV	694.3	0.500	5.00	CIRC	0.200 J	0.033 P/S	0.010 US 0.030	518 MJ/CM2	RESEARCH & OEM
TRW 10261 NEODYMIUM GLASS	IV	1060	0.600	8.00	CIRC	5.00 J	1.00 P/S	300 US	13.0 J/CM2	RESEARCH & OEM
TRW 10262 NEODYMIUM GLASS		1060								RESEARCH & OEM INSUFFICIENT INFORMATION
TRW 10265 NEODYMIUM YAG (ND YAG)	IV	1064	0.600	8.00	CIRC	0.200 J	10.0 P/S	250 US	518 MJ/CM2	RESEARCH & OEM
TRW 10266 NEODYMIUM YAG (ND YAG)	IV	1064	0.600	4.00	CIRC	0.150 J	0.670 P/S	0.010 US	389 MJ/CM2	RESEARCH & OEM
TRW 10310 RUBY	IV	694.3	1.80	2.00	CIRC	100 J	0.017 P/S		78.4 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
TRW 10320 NEODYMIUM GLASS	IV	1060	1.80	2.00	CIRC	250 J	0.033 P/S		196 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
TRW 10325 RUBY		694.3					0.033 P/S			RESEARCH & OEM INSUFFICIENT INFORMATION
UNION CARBIDE K-1 RUBY	IIIB	694.3	0.900	4.00	CIRC	150 W PEAK	0.070 P/S	0.020 US	7.78 UJ/CM2	RESEARCH & OEM
UNION CARBIDE K10 RUBY	IV	694.3				50.0 KW PEAK	1.00 P/M 60.0	500 US	64.8 J/CM2	RESEARCH & OEM
UNION CARBIDE K10 RUBY	IV	694.3				175MGW PEAK	4.00 P/M	10.0 NS	4.54 J/CM2	RESEARCH & OEM
UNION CARBIDE K-10H RUBY	IV	694.3	0.200	3.00	CIRC	2.00MGW PEAK	0.020 P/S	0.020 US	104 MJ/CM2	RESEARCH & OEM
UNION CARBIDE K-2 RUBY ND-GLASS	IV	694.3 1060	1.80	6.00 10.0	CIRC	500MGW PEAK	0.050 P/S	0.020 US	7.84 J/CM2	RESEARCH & OEM
UNION CARBIDE K-15 NEODYMIUM GLASS	IV	1060	1.60	8.00	CIRC	150MGW PEAK	0.070 TO 1.00 P/S	0.020 US	2.98 J/CM2	RESEARCH & OEM
UNION CARBIDE K-1000 RUBY	IV	694.3	1.60	2.00 4.00	CIRC	300MGW PEAK	0.020 P/S	0.005 US 0.020	5.95 J/CM2	RESEARCH & OEM
UNION CARBIDE K-1500 RUBY	IIIB	694.3	1.80	1.50	CIRC	1.00MGW PEAK	0.020 P/S	0.005 US	3.92 MJ/CM2	RESEARCH & OEM
UNION CARBIDE K-1600 RUBY	IIIB	694.3	1.80	3.00	CIRC	1.00MGW PEAK	0.020 P/S	0.020 US	15.7 MJ/CM2	RESEARCH & OEM
UNION CARBIDE K-6A ARGON (AR)	IIIB	457.9 TO 514.5				3.00 MW MULTI 1.00 MW TEMPO	N/A		7.78 MW/CM2 2.59	RESEARCH & OEM
UNION CARBIDE K-64 CARBON DIOXIDE (CO2)	IV	10600				250 W MULTI	N/A		31.7 KW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- DIA- LENGTH METER (NM) (CM)	DIVER- BEAM GENCF SHAPE (MRAD)	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
UNION CARBIDE K-G1000 CARBON DIOXIDE (CO2)	IV	10600		1000 W MULTI		N/A	127 W/CM2	RESEARCH & OEM
UNION CARBIDE K-Y2 NEODYMIUM YAG (ND YAG)	IV	1064	0.300 5.00	3.00 CIRC 7000 W PEAK	1200 P/S	0.100 US	25.9 W/CM2 1.81 MJ/CM2	RESEARCH & OEM
UNION CARBIDE K-Y5 NEODYMIUM YAG (ND YAG)	IV	1064	0.500	15.0 CIRC 250 W MULTI		N/A	648 W/CM2	RESEARCH & OEM
UNION CARBIDE KY-16 NEODYMIUM YAG (ND YAG)	IV	1064	(.1)	10.0MGW PEAK	50.0 P/M	10.0 NS	259 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
UNION CARBIDE KY-18A NEODYMIUM YAG (ND YAG)	IV	530.0	0.500	6.00 CIRC 1.00MGW PEAK	1.00 TO 50.0 P/S	0.008 US	20.7 MJ/CM2	RESEARCH & OEM
UNION CARBIDE KY-23 NEODYMIUM YAG (ND YAG)	IV	1064	(.1)	8.00MGW PEAK	10.0 P/M	10.0 NS	207 MJ/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
UNION CARBIDE KY-23A NEODYMIUM YAG (ND YAG)	IV	1064	0.500	4.00 CIRC 10.0MGW PEAK	10.0 P/S	0.010 US	259 MJ/CM2	RESEARCH & OEM
UNION CARBIDE KY-100 NEODYMIUM YAG (ND YAG)	IV	1064		300 W MULTI		N/A	778 W/CM2	RESEARCH & OEM
UNITED AIRCRAFT 242 CARBON DIOXIDE (CO2)	IV	10600		1.00 W TEM00		N/A	127 W/CM2	RESEARCH & OEM
UNITED AIRCRAFT 1307 CARBON DIOXIDE (CO2)	IV	10600	2.00	3.00 W TEM00		N/A	381 W/CM2	RESEARCH & OEM
UNITED AIRCRAFT 1500 RUBY	IV	694.3	5.00	25.0 MJ	50.0 MHZ	500 PS	64.8 MJ/CM2	RESEARCH & OEM
UNITED AIRCRAFT 2000 NEODYMIUM YAG (ND YAG)	IV	1064	0.200	CIRC 1.00 W CW 50.0 W PEAK	200 MHZ 500	100 US	2.59 W/CM2 13.0 MJ/CM2	RESEARCH & OEM
UNITED AIRCRAFT 2020 NEODYMIUM YAG (ND YAG)	IV	1064	0.200	CIRC 1.00 W TEM00		N/A	2.59 W/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
UNITED AIRCRAFT J80 CARBON DIOXIDE (CO2)	IV	10600		3.00		1.00 KW TEM00 2.00 KW PEAK	N/A		127 KW/CM2	RESEARCH & OEM
UNITED AIRCRAFT J130 CARBON DIOXIDE (CO2)		10600		5.00				20.0 S 30.0		MAT. PROCESSING INSUFFICIENT INFORMATION
UNITED AIRCRAFT PM41 CARBON DIOXIDE (CO2)	IV	10600	2.50		CIRC	1500 W MULTI	N/A		609 W/CM2	RESEARCH & OEM
UNIVERSITY LABS LASERTRON HELIUM NEON (HENE)	II	632.8				0.300 MW TEM00	N/A		778 UW/CM2	RESEARCH & OEM
UNIVERSITY LABS 200 HELIUM NEON (HENE)	II	632.8	0.100	0.800	CIRC	0.600 MW TEM00	N/A		1.56 MW/CM2	RESEARCH & OEM
UNIVERSITY LABS 201 HELIUM NEON (HENE)	IIIB	632.8	0.148	0.800	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM
UNIVERSITY LABS 230 HELIUM NEON (HENE)	IIIB	632.8	0.200	0.400	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM2	RESEARCH & OEM
UNIVERSITY LABS 240 HELIUM NEON (HENE)	IIIB	632.8	0.140	0.800	CIRC	1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM
UNIVERSITY LABS 241 HELIUM NEON (HENE)	IIIB	632.8	0.140	0.800	CIRC	2.00 MW TEM00	N/A		5.18 MW/CM2	RESEARCH & OEM
UNIVERSITY LABS 251 HELIUM NEON (HENE)	IIIB	632.8	0.160	0.700	CIRC	3.00 MW TEM00	N/A		7.78 MW/CM2	RESEARCH & OEM
UNIVERSITY LABS 261 HELIUM NEON (HENE)	IIIB	632.8	0.160	0.700	CIRC	4.00 MW TEM00	N/A		10.4 MW/CM2	RESEARCH & OEM
UNIVERSITY LABS 270 HELIUM NEON (HENE)	IIIB	632.8	0.210	0.600	CIRC	10.0 MW TEM00	N/A		25.9 MW/CM2	RESEARCH & OEM
UNIVERSITY LABS 340 HELIUM NEON (HENE)	IIIB	632.8	0.140	0.800	P	1.00 MW TEM00	N/A		2.59 MW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSF WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
UNIVERSITY LABS LH-340 HELIUM NEON (HENE)	IIIB	632.8	0.150	0.800	CIRC	1.00 MW AVER		N/A	2.59 MW/CM2	RESEARCH & OEM
UNIVERSITY LABS 340 HELIUM NEON (HENE)	IIIB	632.8	0.140	0.800	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
UNIVERSITY LABS 341 HELIUM NEON (HENE)	IIIB	632.8	0.140	0.800	CIRC	2.00 MW TEM00		N/A	5.18 MW/CM2	RESEARCH & OEM
UNIVERSITY LABS 351 HELIUM NEON (HENE)	IIIB	632.8	0.160	0.700	CIRC	3.00 MW TEM00		N/A	7.78 MW/CM2	RESEARCH & OEM
UNIVERSITY LABS 361 HELIUM NEON (HENE)	IIIB	632.8	0.160	0.700	CIRC	4.00 MW TEM00		N/A	10.4 MW/CM2	RESEARCH & OEM
UNIVERSITY LABS 416 HELIUM CADMIUM (HECD)	IIIB	441.6	0.140	1.00	CIRC	2.00 MW TEM00		N/A	5.18 MW/CM2	RESEARCH & OEM
UNIVERSITY LABS 610 HELIUM NEON (HENE)	IIIB	632.8				2.50 MW		N/A	6.48 MW/CM2	DIST. METER
VARI-TECH VT-1167 HELIUM NEON (HENE)	IIIB	632.8	0.800 3.00		V CIRC	1.50 MW TEM00		N/A	2.98 MW/CM2	RESEARCH & OEM
WATKINS JOHNSON WT-238-1 HELIUM NEON (HENE)	IIIB	632.8				1.00 MW		N/A	2.59 MW/CM2	RESEARCH & OEM
WATKINS JOHNSON WJ203-1 HELIUM NEON (HENE)	IIIB	632.8	0.100	1.00	CIRC	1.00 MW TEM00		N/A	2.59 MW/CM2	RESEARCH & OEM
WESTINGHOUSE CO2100 CO2 HE N2	IV	10600	1.50	2.00	CIRC	100 W PEAK 100 W AVER	1.00 TO 100 P/S		113 W/CM2	RESEARCH & OEM PROVISIONAL -OSHA- CLASSIFICATION
WESTINGHOUSE CO2200 CO2 N2	IV	10600		2.00		200 W AVER 250 W MULTI	1.00 TO 100 P/S	1.00 US 10.0	25.4 KJ/CM2 31.7 318 J/CM2	RESEARCH & OEM
WESTINGHOUSE CO2-300 CARBON DIOXIDE (CO2)	IV	10600	0.800	2.00	CIRC	300 W TEM00		N/A	1.19 KW/CM2	RESEARCH & OEM

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MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSF WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM <sup>2</sup> OR J/CM <sup>2</sup> )	APPLICATION/ COMMENTS
WESTINGHOUSE LMT-19 RUBY	IV	694.3	0.500	6.00	CIRC	10.0 J	1.00 P/S	4.50 MS	25.9 J/CM <sup>2</sup>	MAT. PROCESSING
WESTINGHOUSE LMT20 RUBY	IV	694.3	0.640	5.00	CIRC	20.0 J	2.00 P/S	1.00 MS 10.0 TO	51.8 J/CM <sup>2</sup>	MAT. PROCESSING
WESTINGHOUSE LMT-21 NEODYMIUM GLASS	IV	1060	1.30	5.00	CIRC	40.0 J 15.0 W AVER	2.00 P/S	1.00 MS 10.0	60.1 J/CM <sup>2</sup> 11.3	MAT. PROCESSING
WESTINGHOUSE LMT21A RUBY-GLASS	IV	694.0	0.850	5.00	CIRC	200 J 15.0 W AVER	2.00 P/S	1.00 MS 10.0	518 J/CM <sup>2</sup> 19.4	MAT. PROCESSING
WESTINGHOUSE LMT-21A RUBY ND-GLASS	IV	1060	0.850	5.00	CIRC	200 J 15.0 W AVER	2.00 P/S	1.00 MS 10.0	518 J/CM <sup>2</sup> 19.4	MAT. PROCESSING
WESTINGHOUSE LYN-12 NEODYMIUM YAG (ND YAG)		1064	3.00	5.00	CIRC					RESEARCH & OEM INSUFFICIENT INFORMATION
WESTINGHOUSE LYN-30 NEODYMIUM YAG (ND YAG)		1064	0.500	3.00	CIRC					RESEARCH & OEM INSUFFICIENT INFORMATION
WESTINGHOUSE LYN-100 NEODYMIUM YAG (ND YAG)		1064	0.500	6.00	CIRC					RESEARCH & OEM INSUFFICIENT INFORMATION
WESTINGHOUSE LYN500 NEODYMIUM YAG (ND YAG)		1064	0.500	10.0	CIRC					RESEARCH & OEM INSUFFICIENT INFORMATION
WESTINGHOUSE HD-6 RUBY/ND-GLASS		694.3 1064					12.0 P/S	1.00 MS		RESEARCH & OEM INSUFFICIENT INFORMATION
WILD HEENBRUGG DISTOMAT DI-10 GA-AS	IIIR	875.0	3.50	4.25	CIRC	80.0 W AVER	4.00 MHZ		16.6 W/CM <sup>2</sup>	DIST. AFTER PROVISIONAL -OSHA- CLASSIFICATION
XEROX 200 HE-NE TELECOPIER	II	ENCL	632.8	0.320		CIRC 0.850 MW		N/A	2.20 MW/CM <sup>2</sup>	INT. ALARMS + COM. CLASS I AS ENCLOSED
XEROX 5R-1011 NEODYMIUM YAG (ND YAG)	IV	1064	(.1)			120 MJ MULTI	1.00 P/S	0.008 US	311 MJ/CM <sup>2</sup>	MAT. PROCESSING PROVISIONAL -OSHA- CLASSIFICATION

L A S E R   H A Z A R D   C L A S S I F I C A T I O N   G U I D E

MANUFACTURER/ MODEL ACTIVE MEDIUM	HAZARD CLASS (OSHA)	WAVE- LENGTH (NM)	DIA- METER (CM)	DIVER- GENGE (MRAD)	BEAM SHAPE	OUTPUT POWER/ENERGY	PULSE REP-RATE	PULSE WIDTH	BEAM IRRADIANCE/ RADIANT EXPOSURE (W/CM2 OR J/CM2)	APPLICATION/ COMMENTS
XEROX YL-2101 NEODYMIUM YAG (ND YAG)	IIIB	1064	5.00	1.20	CIRC	120 MJ MULTI	1.00 P/S	8.00 NS	12.2 MJ/CM2	RESEARCH & OEM
XEROX YL-2101 NEODYMIUM YAG (ND YAG)	IV	1064	5.00	1.20	CIRC	180 MJ MULTI	10.0 P/S	8.00 NS	18.3 MJ/CM2	RESEARCH & OEM
XION XN-2106 NEODYMIUM YAG (ND YAG)	IV	1064	5.00	7.00	CIRC	15.0 W AVER			1.52 W/CM2	RESEARCH & DEM PROVISIONAL -OSHA- CLASSIFICATION
ZYGO 110-A HELIUM NEON (HENE)	IIIB	632.8				2.00 MW	N/A		5.18 MW/CM2	SCIENTIFIC INSTR.