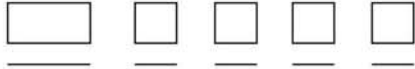


How to Order

- Select the model number desired from "1" (Model Selections).
- Designate the configuration of the laser system by one suffix from each of the configuration fields listed in "2" (Configuration Selections).
- Indicate the desired accessories from among those listed in "3" (Accessory Selections).
- Determine the price by consulting an Infrared Instruments sales representative.



1 **Model Selection** 2 **Configuration Selection** 3 **Accessory Selection**

Sample:

1 Model Selections

The standard laser system includes the laser head and switching mode DC power supply.

Model No.	Rated Power (Watts)
IR-3	3.0/1.5*
IR-7	7.0/5.0**
IR-10	10.0/8.0**
IR-15	15.0/12.5**

*Indicates the rated output power for grating fixed/tunable systems. Grating tunable systems operate on a minimum of 10 transition wavelengths with power in excess of 50 milliwatts per line.

**Indicates the rated output power for grating fixed/tunable systems. Grating tunable systems operate on a minimum of 30 transition wavelengths with power in excess of 1 watt per line.

Power Stability: Power stability is achieved by temperature control of the laser bore. For air cooling (A), a variable speed, brushless DC fan is employed in conjunction with a 10 turn potentiometer to select the desired thermal operating point.

The water cooling (W) option with the associated connections and optional temperature-controlled Water Cooling Unit provides improved amplitude stability.

The additional use of the Heater Stabilization (WS) option provides the user with a further improvement in amplitude stability.

Wavelength Selection: All standard lasers oscillate single mode, single line. A factory tuned, fixed grating is set at the appropriate Littrow angle to achieve a single specific operating wavelength. Manual micrometer adjustments are used to permit operation at several selectable wavelengths. A calibration chart of power and wavelength vs. micrometer setting and temperature is provided with all tunable laser systems.

Polarization Axis: All standard laser systems are linearly polarized. The angle of the E vector will shift as a function of wavelength and temperature.

An intracavity ZnSE Brewster plate forces vertical or horizontal polarization. Please specify the desired orientation when placing your order.

2 Configuration Selections

Field	Operation	Performance Specification	Suffix
1	Power Stability	> ± 3% Air cooling	A
		< ± 3% Water cooling Heater Stabilization	W* WS*
2	Wavelength	-Single line/mode operation	O
		-Fixed grating — single wavelength (specify)	GF
		-Tunable grating — multiple wavelength selectable	GT
3	Polarization Axis	Random	O
		Vertical	VP
		Horizontal	HP

* This option require water cooling unit.

3 Accessory Selections

Model	Description*
CX	Cable Extension

*For complete description of Accessories please consult the Accessories Selections Sheet.



For further information and pricing, please contact an Infrared Instruments sales representative. TEL (760) 599-6650 or FAX (760) 599-0220