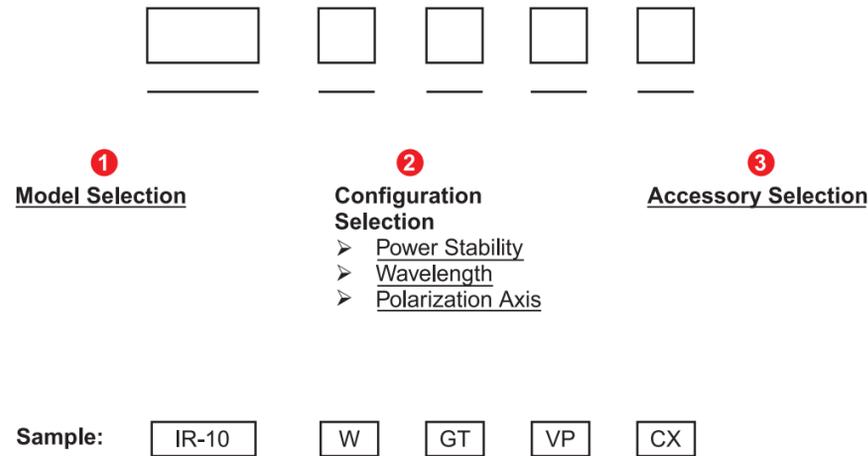


## How to Order

- 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 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 maximum 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 < ± 3% Water cooling Heater Stabilization	A W* WS*
2	Wavelength	-Single line/mode operation -Fixed grating — single wavelength (specify) -Tunable grating — multiple wavelength selectable	O GF GT
3	Polarization Axis	Random Vertical Horizontal	O VP 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 [sales@infraredinstruments.com](mailto:sales@infraredinstruments.com)