

## 785nm Narrow Linewidth Laser Diode System

- Integrated 785nm Laser Diode+Power Supply
- Wavelength Stability:  $\pm 0.005\text{nm}$  (8 Hours)
- Adjustable Optical Output Power (CW): 0 - 500mW
- Power Stability:  $\pm 1.0\%$  (8 Hours)
- Volume Bragg Grating Stabilized
- Modulation Input: 1kHz TTL or Analog signal 0-5V

## LDX-785nm-500mW DATA SHEET

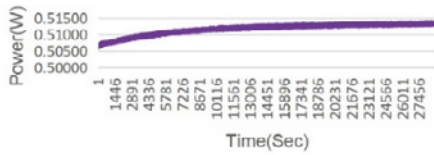


WORLD LEADING PRODUCTS  
FOR LASER SCIENTISTS AND ENGINEERS

**DATA SHEET**

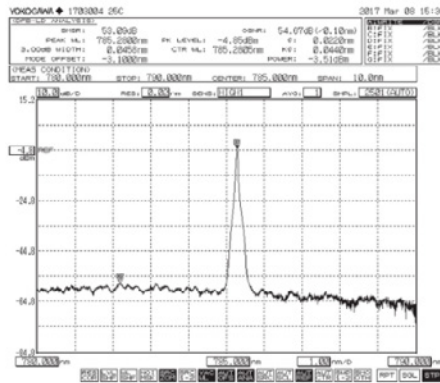
**LDX-785nm-500mW Product Overview**

The 785nm laser system includes an integrated VBG stabilized 785nm laser diode source, laser diode driver, TEC controller and heatsink. The turnkey system allows the user to quickly setup and begin operating the 500mW laser diode. Careful attention to the design provides the user with high stability control and narrow laser linewidth. The laser output is adjustable from 0 to 500mW by adjusting the current with the adjustment knob. For laser safety the system also features an emergency stop button, enable/disable key switch and safety interlock.



**OUTPUT POWER STABILITY OF ±1.0% OVER 8 HOURS**

**NARROW LINEWIDTH OF <0.1nm WITH WAVELENGTH STABILITY OF ±5pm OVER 8 HOURS**



## LDX-785nm-500mW SPECIFICATIONS

### OPTICAL SPECIFICATIONS

Center Wavelength:	785nm ( $\pm 0.5$ nm)
Output Power:	500mW (Adjustable)
Linewidth:	<0.1nm
SMSR:	40dB
Fiber Output Connector:	FC/PC or SM905
Fiber Core Diameter:	105 $\mu$ m
Numerical Aperture:	0.22 NA

### PRIMARY APPLICATIONS

Raman Spectroscopy  
Fluorescence Spectroscopy  
Holographic  
Analytical Instruments

### GENERAL

Remote Interface:	USB, BNC
Dimensions (LxWxH in mm):	105 x 102 x 200
Weight:	2.2kg
Supply Voltage:	100-240 VAC , 50/60Hz

## DATA SHEET

### OPTIONAL OEM VBG LASER DIODE SOURCE PACKAGE

Integrated Wavelength Stabilized Laser  
Laser Diode Driver + TEC Controller

Compact Footprint:  
76.2mm x 63.5mm x 22mm

Optional USB Control



**CONTACT FOR PRICING**

### Product Warranty:

In addition to the standard full one year warranty, this product is offered with an additional 3 months of extended warranty for a total of 15 months of warranty coverage. The warranty includes all parts and labor. The warranty does not include customer induced product damage.

### Our Customer Commitment:



#### **You Get Direct, Fast Tech-Support from a Product ENGINEER ... Not a Sales Person**

You get DIRECT access to the correct factory engineer for your product. We eliminate the sales person "middle-man" back and forth time delays resolving technical issues. No more "Contact Us" forms. Every product has an assigned engineer in our auto-messaging data base to give you direct, immediate access to the correct tech-support info.



#### **You Get an Extended Warranty**

All products from Laser Lab Source come with a 12 month factory warranty. Additionally, we offer and extra 3 months of warranty on top of the standard warranty. *Warranty does not include customer induced product damage.*



#### **You Get the Lowest Factory-Direct Prices Worldwide**

All of our 3rd party global suppliers set & quote their own direct pricing. There are NO Mark-Up's. You get their lowest direct price.