

OBIS LX/LS Laser Box

Laser Mount with Cooling, Interface and Power Supply

OBIS LX and OBIS LS laser products come with a variety of accessories to support your application needs.

The OBIS Laser Box for OBIS LS and OBIS LX offers all the features from the laser in a convenient CDRH-compliant interface with convection cooling for five lasers.

As with all OBIS LX and OBIS LS lasers, the laser itself offers a stand-alone all-in-one laser solution. OBIS lasers come with a Power Connection, USB Connection, Fan Connection and a SDR-type Connection for laser control I/O. All of these are on the back panel of every OBIS LX/LS laser.

To simplify integration, the OBIS Laser Box connects to the single SDR-type connector for power, signals and communication. The OBIS Laser Box then brings all of these features to the front panel controls and connectors.



FEATURES & BENEFITS

- Integrated five bay mount for OBIS lasers
- Heat sinks and cooling fans
- Modulation inputs for analog and digital for five lasers
- USB and RS-232 interface for additional control from host computer
- Coherent Connection software for PC
- · Status indicators for each laser
- External power supply
- Laser safety features such as key switch and interlock

APPLICATIONS

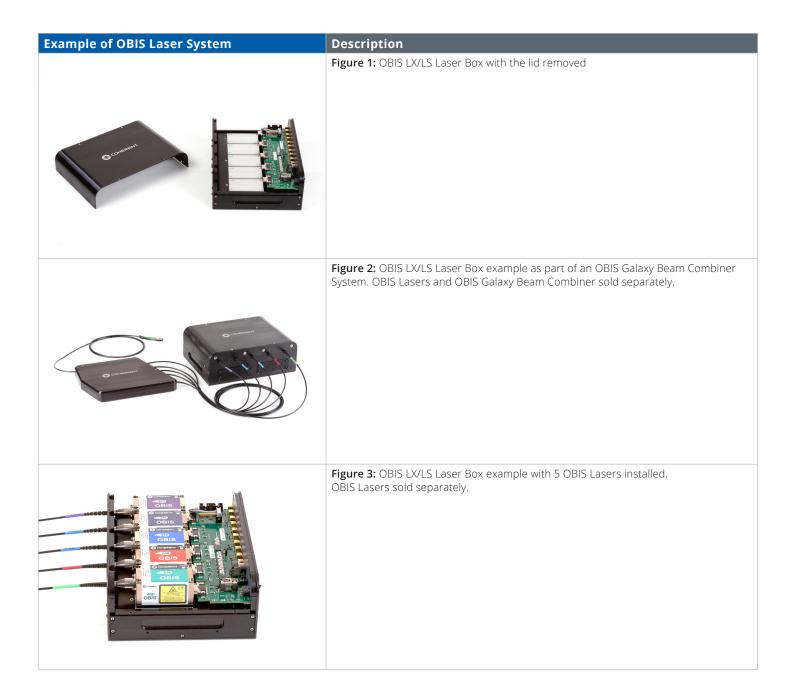
- Laboratories needing CDRH features
- Applications wanting a simple Analog or Digital inputs to control the laser
- Applications wanting thermal management (cooling) for the lasers



SPECIFICATIONS ¹	OBIS LX/LS Laser Box	
OBIS Laser Box	5 4000077	5 40 4000
Laser Box - five bay ¹ Power Supply ²	Part Number 1228877 Included	Part Number 1343229 Included
Host Computer Remote Control via USB ³	USB 2.0, Mini B	
Host Computer Remote Control via RS-232 ³	RS-232, 115.2K, DB-9F	
Analog Inputs, 5 each	SMB Connector, 0V to 5V, 2000 Ω input impedance	
Digital Inputs ⁴ , 5 each	SMB Connector, 0V to 3V, 50 Ω input impedance	SMB Connector, 0V to 3V, 2000 Ω input impedance ⁵
Interlock	Yes, included with shorting wire	
Laser Status Indicators	Yes, Individual LED for each Laser	
Warm-up Time (minutes) (from cold start)	<2	
Coherent Connection Software for PC	Included on USB drive with user manual	
Safety	Key switch and interlock	
UTILITY AND ENVIRONMENTAL REQUIREMENTS		
Power Consumption (W) (typical)	5 (without lasers)	
Power Consumption (W) (maximum)	140 (with 5 lasers)	
Internal Cooling Fan	Yes, 3 each	
Power Input to Laser Box, 6 Pin (VDC)	10 to 14 at 10A maximum, Molex P/N 43025-0600 for mating connector	
Power Cord (USA)	2.4m (8 ft.)	
Operating Condition ⁶ (°C)	10 to 40 for OBIS LX, 10 to 35 for OBIS LS	
Non-operating Condition ⁶ (°C)	-10 to 60	
Shock Tolerance (g) (6 ms)	20	
Operating Voltage (VAC)	90 to 264, 47 to 63 Hz	
Dimensions (L x W x H)		
Laser Box	241 x 184 x 88 mm (9.5 x 7.3 x 3.5 in.)	
Power Supply	189 x 89.4 x 47.1 mm (7.4 x 3.5 x 1.9 in.)	
Weight Laser Box	201-21	9 F. Iba
Power Supply	3.9 kg (8.5 lbs.) 0.9 kg (2.0 lbs.)	
1 Ower Supply	0.5 Ng (2.0 105.)	

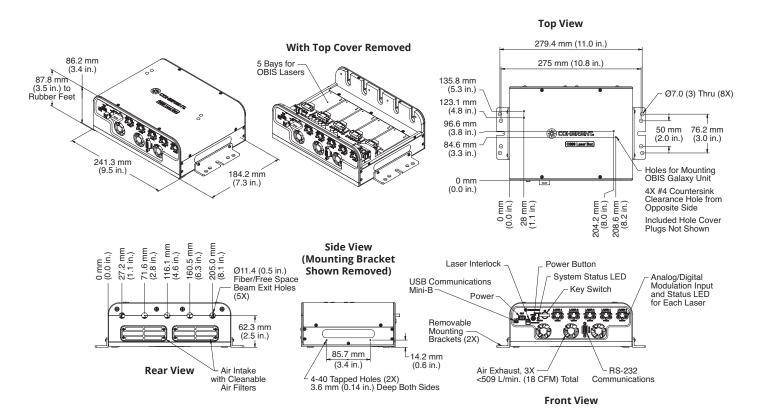
- Lasers sold separately.
 Power supply included. Order item number 1211389 for spare or replacement.
 Host computer not provided. RS-232 cable not provided.
 Digital Modulation can be driven up to 5 Volts.
 With 2000 Ω Digital Modulation Impedance the OBIS LX laser will have a limited Digital Modulation bandwidth of -20 MHz.
 Order 1228877 for the 50 Ω Digital Modulation Impedance to obtain the full OBIS LX maximum Digital Modulation bandwidth of 150 MHz.
 Non-condensing.





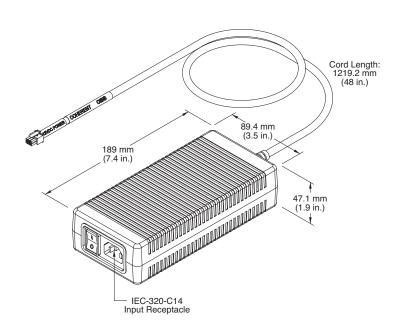
MECHANICAL SPECIFICATIONS

OBIS Laser Box



OBIS 6-Laser Remote Power Supply

Part #1211389 included





Optional OBIS Laser Remotes Description OBIS LX/LS Single Laser Remote with full features for control with analog/digital inputs. Includes USB and RS-232 on the Remote. Part Number 1214875 OBIS LX/LS Single Laser Remote, with Power Supply, 1 meter laser-to-remote (SDR) cable, USB cable and software. OBIS LX/LS 6-Laser Remote with CDRH features. Separate power switches and power cables for each laser. NOTE: Does not support modulation inputs. Part Number 1203909 OBIS LX/LS 6-Laser Remote, with Power Supply, 6 power cables from laser-to-remote and software. OBIS LX/LS Scientific Remote with full features for control with analog/digital inputs for up to six lasers. User interface touch screen and connectivity through USB. RS-232 and Ethernet. Part Number 1234466 OBIS LX/LS Scientific Remote, with internal Power Supply, 6 laser-to-remote (SDR) cables and software. OBIS LX/LS Laser Box with five laser mounting bays with thermal management, cooling fans, analog/digital inputs, RS-232, USB, key-switch and interlock in one compact package. Lasers sold separately. Part Number 1228877 OBIS LX/LS Laser Box, with Power Supply, USB cable and software. Analog Modulation Impedance = $2k \Omega$, Digital Modulation Impedance = 50Ω . Part Number 1343229 OBIS LX/LS Laser Box, with Power Supply, USB cable and software. Analog Modulation Impedance = $2k \Omega$, Digital Modulation Impedance $= 2k \Omega$.



Coherent, Inc., 5100 Patrick Henry Drive Santa Clara, CA 95054 p. (800) 527-3786 | (408) 764-4983 f. (408) 764-4646

tech.sales@Coherent.com www.coherent.com