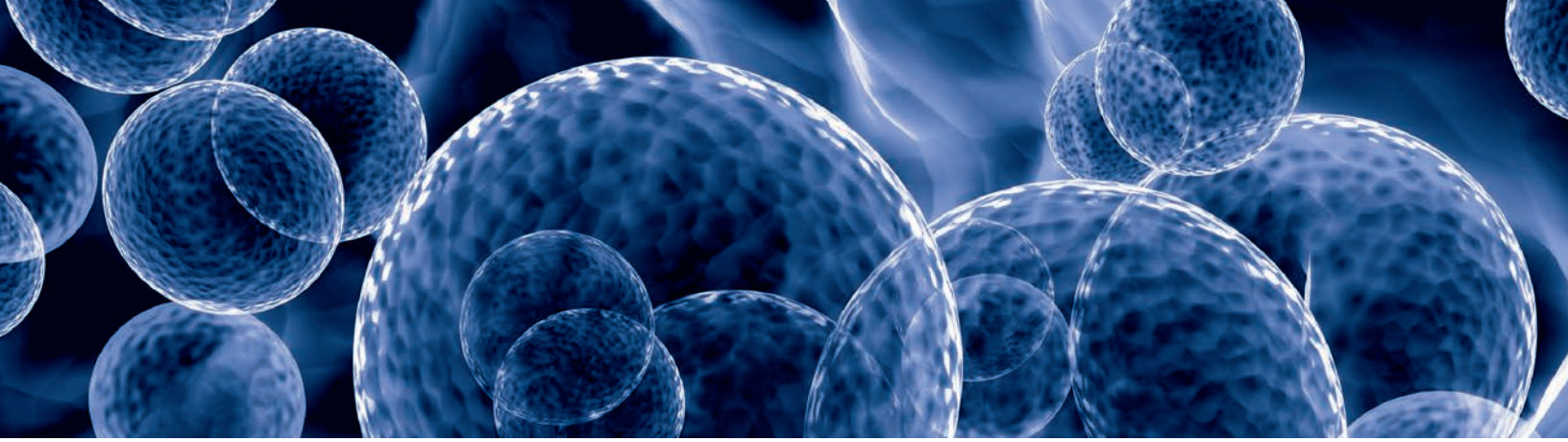


OBIS LX/LS Laser Box

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

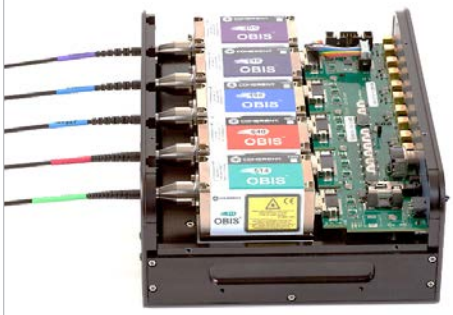
APPLICATIONS

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

COHERENT®
Superior Reliability & Performance

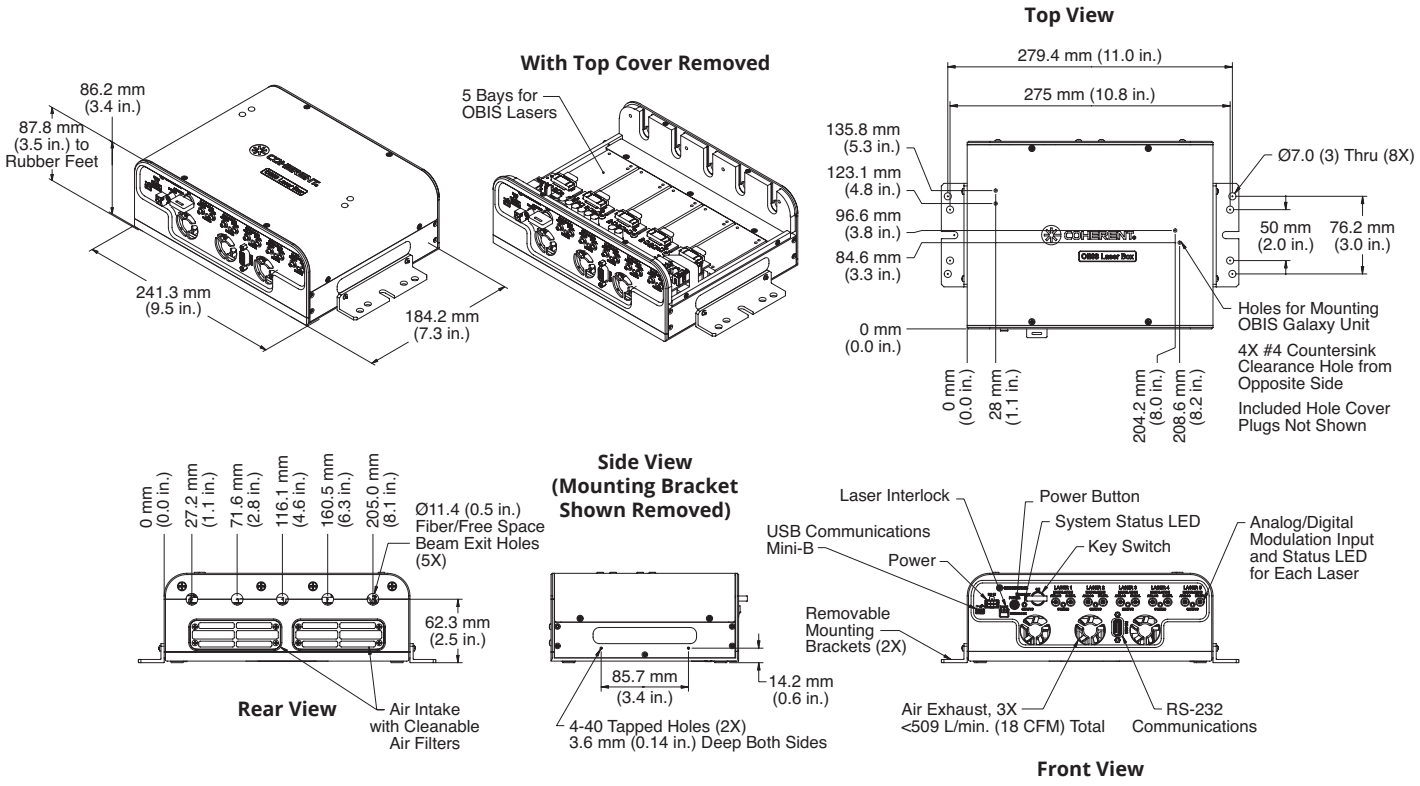
SPECIFICATIONS[1]	OBIS LX/LS Laser Box	
OBIS Laser Box Laser Box - five bay[1] Power Supply[2]	 Part Number 1228877 Included	 Part Number 1343229 Included
Host Computer Remote Control via USB[3]	USB 2.0, Mini B	
Host Computer Remote Control via RS-232[3]	RS-232, 115.2K, DB-9F	
Analog Inputs, 5 each	SMB 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
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[5] (°C)	10 to 40 for OBIS LX, 10 to 35 for OBIS LS	
Non-operating Condition[5] (°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 Power Supply	 241 x 184 x 88 mm (9.5 x 7.3 x 3.5 in.) 189 x 89.4 x 47.1 mm (7.4 x 3.5 x 1.9 in.)	
Weight Laser Box Power Supply	 3.9 kg (8.5 lbs.) 0.9 kg (2.0 lbs.)	

1 Lasers sold separately.
2 Power supply included. Order item number 1211389 for spare or replacement.
3 Host computer not provided. RS-232 cable not provided.
4 Digital Modulation can be driven up to 5 Volts.
5 Non-condensing.

Example of OBIS Laser System	Description
	**Figure 1:** OBIS LX/LS Laser Box with the lid removed
	**Figure 2:** OBIS LX/LS Laser Box example as part of an OBIS Galaxy Beam Combiner System. OBIS Lasers and OBIS Galaxy Beam Combiner sold separately.
	**Figure 3:** OBIS LX/LS Laser Box example with 5 OBIS Lasers installed. OBIS Lasers sold separately.

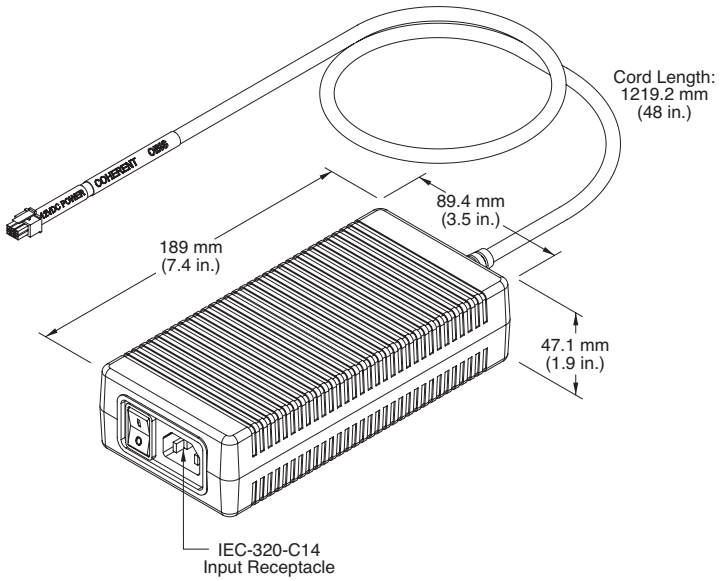
MECHANICAL SPECIFICATIONS

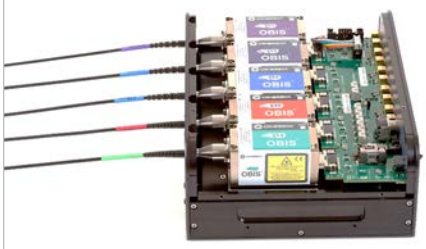
OBIS Laser Box



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 Ω, Digital Modulation Impedance = 50 Ω. Part Number 1343229 OBIS LX/LS Laser Box, with Power Supply, USB cable and software. Analog Modulation Impedance = 2k Ω, Digital Modulation Impedance = 2k Ω.

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