

OBIS LX/LS Scientific Remote

Laser Remote and Power Supply for up to Six Lasers

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

The OBIS Scientific Remote for OBIS LS and OBIS LX offers all the features from the laser in a convenient CDRH-compliant interface with a touch-screen and internal power supply for up to six lasers.

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

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

OBIS Scientific Remote offers a convenient handle to angle the unit for easier display.



FEATURES & BENEFITS

- Complete remote control of up to six OBIS lasers
- Touchscreen interface with audio
- Independent voltage inputs for analog and digital modulation signals
- USB, RS-232 and Ethernet for additional control from host computer
- OBIS connection software for PC
- Single SDR connection to each laser
- Laser safety features (CDRH) such as key switch and interlock

APPLICATIONS

- Laboratories that require CDRH features
- Applications that require a simple Analog or Digital inputs to control the laser
- Applications that require laser control at a remote location away from the laser



SPECIFICATIONS ¹	OBIS LX/LS Scientific Laser Remote
Touchscreen Display Size	108 mm (4.3 in.) diagonal
Touchscreen Display Resolution, Type	480 x 272 pixel, QVGA, TFT, 24-bit color
Touchscreen Display Mode ¹	Resistive Touchscreen
Audio	Yes
Internal Power Supply	Yes
OBIS Lasers that can be connected	1 to 6 lasers with power to optional 1 to 6 heat sink cooling fans
Host Computer Remote Control via USB ²	USB 2.0, Mini B
Host Computer Remote Control via RS-232 ²	RS-232 115.2K, 8N1
Host Computer Remote via Ethernet ²	Ethernet 10/100 (Mb) RJ45
Carry Handle and Stand	9-Position
Interlock	Yes, included with shorting wire
Laser Status Indicators	Yes, Individual LED for each laser
Analog Modulation Input	SMB, 2k Ω , 0 to 5V
Digital Modulation Input ³	SMB, 50 Ω , 0 to 3V
Warm-up Time (minutes) (from cold start)	<2
Coherent Connection Software ²	Included on USB drive with user manual
UTILITY AND ENVIRONMENTAL R	EQUIREMENTS
Power Consumption (W) (typical)	5 (without lasers)
Power Consumption (W) (maximum)	110 (with 6 lasers)
Internal Cooling Fan	Yes
Power Input - Universal	IEC-320
Power Cord (USA)	2.4 m (8 ft.)
Operating Condition ⁴ (°C)	0 to 50
Non-operating Condition ⁴ (°C)	-10 to +70
Shock Tolerance (6 ms)	20 g
Operating Voltage	90 to 264 VAC, 47 to 63 Hz
Dimensions (L x W x H)	180 x 293.5 x 104.4 mm (7.09 x 11.55 x 4.11 in.)
Weight	1.75 kg (3.86 lbs.)
Weight, Laser-to-Remote Cable (optional)	0.1 kg for 1 meter (0.25 kg for 3 meter)
Part Number for OBIS Scientific Remote	1234465
Part Number for OBIS Scientific Remote with	1234466
Six Laser-to-Remote SDR Cables Included	1 m each
Part Number for OBIS LX/LS SDR-Type Cable from Laser to Remote	
1-meter	1179451
3-meter 0.3-meter	1179858 1197523
0.3-meter	1197523

Resistive touchscreen will work with gloves. This is a pressure sensitive touchscreen - not capacitive.
 Host computer not provided. R5-232 and USB cable not provided.
 Digital modulation can be driven up to 5V.
 Non-condensing.

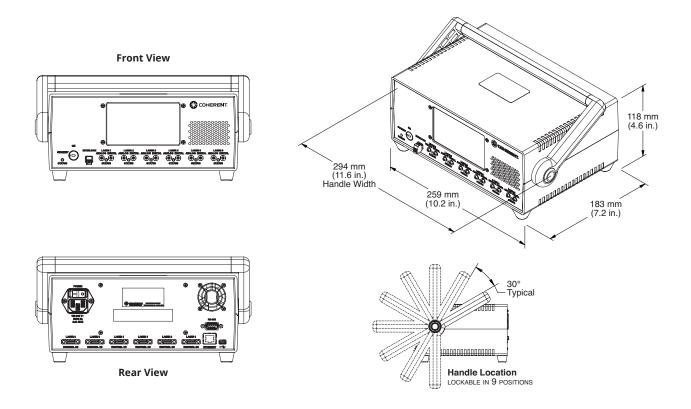




MECHANICAL SPECIFICATIONS

OBIS LX/LS Scientific Remote

(part # 1234466)





Optional OBIS Laser Accessories	Description
	OBIS Heat Sink with fan for thermal management, includes hardware to mount to table. Laser can be mounted on top or side for horizontal polarization. Convenient 69 mm (2.7 inch) beam height. Part Number 1193289 OBIS Heat Sink Mount.
	 OBIS LX/LS Single Laser Remote with full features for control with Analog and Digital modulation inputs. Includes USB and RS-232 connectors on the back panel of the Remote. Part Number 1214875 OBIS LX/LS Single Laser Remote, with Power Supply, 1 meter laser-to-remote (SDR) cable, USB cable, and Coherent Connection applications software. Part Number 1173961 OBIS LX/LS Single Laser Remote, with Power Supply, USB cable, and Coherent Connection applications 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 Coherent Connection applications software. Part Number 1306263 OBIS LX/LS 6-Laser Remote, with Power Supply and Coherent Connection applications software (no laser-to-remote power cables).
	 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 Coherent Connection applications software. Part Number 1234465 OBIS LX/LS Scientific Remote, with internal Power Supply, and Coherent Connection software (no SDR Laser-to-Remote cables).
	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 Coherent Connection applications software. Analog Modulation Impedance = $2k \Omega$, Digital Modulation Impedance = 50Ω . Part Number 1343229 OBIS LX/LS Laser Box, with Power Supply, USB cable, and Coherent Connection applications software. Analog Modulation Impedance = $2k \Omega$, Digital Modulation Impedance = $2k \Omega$.



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Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice. Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all OBIS LX/LS Scientific Remotes. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative. MC-004-13-0M0920Rev.D Copyright ©2020 Coherent, Inc.