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

The OBIS Single Laser Remote for OBIS LS and OBIS LX offers all the features from the laser in a convenient CDRH-compliant interface.

As with all OBIS LX and OBIS LS lasers, the laser itself offers a stand-alone 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 on the back panel of every OBIS LX/LS laser.

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

OBIS Single Laser Remotes can even be stacked together with the provided mounting hardware for applications using multiple OBIS LX/LS lasers.

OBIS LX/LS Single Laser Remote

**Features:**
- Compact size
- Laser safety features (CDRH) such as key switch and interlock
- Laser status indicators
- Full input and output connections for control, analog modulation and digital modulation
- Compact power supply for single laser included
- Brackets for mounting and stacking included

**Applications:**
- Laboratories needing CDRH features
- Applications wanting a simple Analog or Digital inputs to control the laser
- Applications wanting laser control at a remote location away from the laser

www.COHERENT.com/OBISSingleLaserRemote
System Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>OBIS LX/LS Single Laser Remote</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host Computer Remote Control via USB(^1)</td>
<td>USB 2.0, Mini B</td>
</tr>
<tr>
<td>Host Computer Remote Control via RS-232(^1)</td>
<td>RS-232 115.2K, 8N1</td>
</tr>
<tr>
<td>Interlock</td>
<td>Yes, included with shorting wire</td>
</tr>
<tr>
<td>Laser Status Indicators</td>
<td>Yes</td>
</tr>
<tr>
<td>Analog Modulation Input</td>
<td>SMB, 50 Ohm OR 2kOhm, 0 to 5V</td>
</tr>
<tr>
<td>Digital Modulation Input(^2)</td>
<td>SMB, 50 Ohm, 0 to 3V</td>
</tr>
<tr>
<td>Warm-up Time (minutes)((\text{from cold start}))</td>
<td>&lt;2</td>
</tr>
<tr>
<td>OBIS Connection Software(^3)</td>
<td>Included on USB drive with user manual</td>
</tr>
<tr>
<td>Power Consumption (W) (typical)</td>
<td>1 (laser not included)</td>
</tr>
<tr>
<td>Power Consumption (W) (maximum)</td>
<td>2 (laser not included)</td>
</tr>
<tr>
<td>Power Input</td>
<td>Universal IEC-320</td>
</tr>
<tr>
<td>Power Cord (USA)</td>
<td>2.4m (8 ft.)</td>
</tr>
<tr>
<td>Operating Condition(^4) (°C)</td>
<td>0 to 40</td>
</tr>
<tr>
<td>Non-operating Condition(^4) (°C)</td>
<td>-10 to +70</td>
</tr>
<tr>
<td>Shock Tolerance (6 ms)</td>
<td>20 g</td>
</tr>
<tr>
<td>Operating Voltage</td>
<td>90 to 264 VAC, 47 to 63 Hz</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>105 x 68 x 36 mm (4.1 x 2.7 x 1.4 on.)</td>
</tr>
<tr>
<td>Weight</td>
<td>OBIS Single Laser Remote 0.23 kg (0.5 lbs.)</td>
</tr>
<tr>
<td></td>
<td>Power Supply (included) 0.23 kg (0.5 lbs.)</td>
</tr>
<tr>
<td>Part Number for OBIS Single Laser Remote</td>
<td>1173961</td>
</tr>
<tr>
<td>Part Number for OBIS LX/LS SDR-Type Cable from Laser to Remote</td>
<td></td>
</tr>
<tr>
<td>1-meter</td>
<td>1179451</td>
</tr>
<tr>
<td>3-meter</td>
<td>1179858</td>
</tr>
<tr>
<td>0.3-meter</td>
<td>1197523</td>
</tr>
<tr>
<td>Part Number for OBIS Power Supply, 12VDC</td>
<td>1184491</td>
</tr>
</tbody>
</table>

\(^1\) Host computer not provided. USB cable provided. RS-232 cable not provided.

\(^2\) Digital modulation can be driven up to 5V.

\(^3\) Software operates on Windows 7.

\(^4\) Non-condensing.

OBIS LX/LS Single Laser Remote

Controls

Key Switch
Interlock Connection
Status Indicators
Illuminated On/Off Switch
Power Input
I/O Connection:
- Laser Ready, Fault, Base Plate Temp.,
- Power Monitor, Slow Digital Modulation,
- Laser Diode Current
RS-232
To Laser
USB
Analog and Digital SMB Connection
OBIS LX/LS Single Laser Remote
Full Feature Laser Remote and Power Supply

OBIS LX/LS Single Laser Remote Mounting Brackets and Stacking Brackets
(included with OBIS LX/LS Single Laser Remote)

Example of Stacking OBIS LX/LS Single Laser Remotes
(mounting bracket included, second remote sold separately)
OBIS LX/LS Single Laser Remote
Full Feature Laser Remote and Power Supply

**OBIS Single Laser Power Supply**
(included with OBIS LX/LS Single Laser Remote)

Power Cord sold separately.

OBIS Single Laser Remote Power Supply offers 12VDC output to the OBIS Remote and has an universal input of 100-240 VAC (47-63 Hz).

OBIS Single Laser Remote requires a SDR-type cable to connect the Laser to the Remote. This cable carries power, signals and communications. Available in 0.3m, 1m and 3m lengths. Sold separately. (Note: if buying an OBIS Laser System then the OBIS laser is shipped with the OBIS Single Laser Remote and a 1-meter SDR-type cable.)
OBIS LX/LS Single Laser Remote
Full Feature Laser Remote and Power Supply

Example of the OBIS LX/LS Laser System including:
OBIS Single Laser Remote, SDR-type Cable from the Laser to the remote,
USB cable, OBIS Single Laser Power Supply
## Other OBIS Laser Remotes

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OBIS LX/LS 6-Laser Remote</strong> with CDRH features. Separate power switches and power cables for each laser.</td>
</tr>
<tr>
<td><strong>OBIS LX/LS Scientific Remote</strong> 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.</td>
</tr>
<tr>
<td><strong>OBIS LX/LS Laser Box</strong> 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.</td>
</tr>
</tbody>
</table>
Mechanical Specifications

OBIS LX/LS Single Laser Remote

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 Single Laser 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.

www.Coherent.com

Coherent, Inc.,
5100 Patrick Henry Drive
Santa Clara, CA 95054
phone (800) 527-3786
(408) 764-4983
date (408) 764-4646
e-mail tech.sales@Coherent.com

Benelux +31 (30) 280 6060
China +86 (10) 8215 3600
France +33 (0) 1 8038 1000
Germany/Austria/ Switzerland +49 (6071) 968 333
Italy +39 (02) 31 03 951
Japan +81 (3) 5635 8700
Korea +82 (2) 460 7900
Taiwan +886 (2) 505 2900
UK/Ireland +44 (1533) 658 833

Printed in the U.S.A. MC-027-A-0814
Copyright ©2014 Coherent, Inc.