The SmartClass Fiber OLS-85 handheld light source is a professional, versatile, and compact instrument used for fiber-optic network qualification and certification. Its specific wavelength combinations make it optimal for link loss testing and long-haul, metro, and access telecommunication network characterization, as well as data center and local area network testing.

In addition to providing a full day of battery-operated field use, the SmartClass Fiber OLS-85 is perfect for fixed installations in central offices, production environments, and laboratory workbenches because it can operate via mains with remote-control capabilities via USB 2.0 and Ethernet.

Adding the P5000i fiber inspection microscope to the OLS-85 lets users check fiber end-face quality and get fully automatic pass/fail acceptance results at the push of button.

Combining the Viavi Solutions OLS-85 Optical Light Source and OLP-85 Optical Power Meter provides the greatest functionality and test automation and avoids handling errors and speeds testing. Automatic functions, such as auto-λ and multi-λ test, send information about the emitted wavelengths to the receiver to automatically set wavelengths on a compatible power meter to accurately measure up to four wavelengths simultaneously. Users can generate and save comprehensive test reports on the OLP-85.

The OLS-85 inspection-ready optical light source can be used anywhere today’s fiber technicians go, up poles or down holes. Technicians get ultimate flexibility and performance from this powerful easy-to-use solution that can help any technician become an instant fiber expert.

Key Benefits and Features

- Complete jobs faster, correctly, and on time—the first time—with uniquely integrated fiber inspection and test with auto pass/fail analysis
- Battery-operated field-portable optical light source with up to 4 wavelengths
- 3.5-inch color touch screen with integrated stylus
- Quad version (850, 1300, 1310, 1550 m) with encircled flux (EF)-compliant launch conditions at 850 nm
- FTTx/PON version with 1310, 1490, 1550, and 1625 nm wavelengths
- Automated pass/fail fiber inspection analysis with the optional P5000i microscope
- Adjustable output level
- Auto-λ and multi-λ test functions communicate with Viavi power meters
- In-service loss test option
- Rugged, weather-proof design
Specifications

<table>
<thead>
<tr>
<th>OLS-85</th>
<th>OLS-85 2313/01</th>
<th>OLS-85 2313/22</th>
<th>OLS-85 2313/06</th>
<th>OLS-85 2313/26</th>
<th>OLS-85 2313/05</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal wavelengths¹</td>
<td>1310/1550 nm</td>
<td>1310/1550/1625 nm</td>
<td>1310/1490/1550/1625 nm</td>
<td>MM: 850/1300 nm</td>
<td>SM: 1310/1550 nm</td>
</tr>
<tr>
<td>Spectral width</td>
<td>&lt;5 nm</td>
<td>&lt;5 nm</td>
<td>&lt;5 nm</td>
<td>MM: 50/170 nm</td>
<td>SM: 5/5 nm</td>
</tr>
<tr>
<td>Launch conditions</td>
<td>EF compliant at 850 nm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output power (settable in 0.01 dB steps)</td>
<td>0 to –3 dBm</td>
<td>–3 to –6 dBm</td>
<td>–3 to –6 dBm</td>
<td>MM: –20 to –23 dBm</td>
<td>SM: 0 to –3 dBm</td>
</tr>
<tr>
<td>Stability²</td>
<td>15 min/8 hr</td>
<td>0.02/0.2 dB</td>
<td>0.02/0.2 dB</td>
<td>0.02/0.2 dB</td>
<td>0.02/0.2 dB</td>
</tr>
<tr>
<td>Source modes</td>
<td>CW, tone, auto-λ, multi-λ³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tone generator</td>
<td>210 Hz, 1 kHz, 2 kHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery life</td>
<td>&gt;10 h (lithium-ion, LiON)/ &gt;8 h (alkaline)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optical interface</td>
<td>PC APC PC (2313/06)</td>
<td>PC (50/125μm MM port)</td>
<td>PC (SM port)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adapter type</td>
<td>Interchangeable SC, FC, ST adapters</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. ±20 nm for 850/1300/1310/1550 nm and ±3 nm for 1490/1625 nm
2. Between –10 to +55°C with ∆T = ±0.3 K after a 20-minute warm-up
3. Works in conjunction with OLP-3x, OLP-55, and OLP-85

Ordering information

OLS-85 Optical Laser Sources includes:
- SmartClass Fiber instrument
- SC2 soft shoulder case, for SmartClass Fiber
- Electronic tool kit with manual, data sheet, and reporting software on USB stick
- Optical adapters: SC-type and FC-type (interchangeable)
- Quick start manual and safety instructions
- Alkaline batteries (8x)

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>OLS-85 Optical Laser Sources</td>
<td></td>
</tr>
<tr>
<td>OLS-85 1310/1550 nm, PC</td>
<td>2313/01</td>
</tr>
<tr>
<td>OLS-85 850/1300/1310/1550 nm, PC</td>
<td>2313/05</td>
</tr>
<tr>
<td>OLS-85 1310/1490/1550/1625 nm, PC</td>
<td>2313/06</td>
</tr>
<tr>
<td>OLS-85 1310/1550/1625 nm, APC</td>
<td>2313/22</td>
</tr>
<tr>
<td>OLS-85 1310/1490/1550/1625 nm, APC</td>
<td>2313/26</td>
</tr>
</tbody>
</table>

Options and Accessories
- P5000i digital analysis microscope with 4 tips FBP-SD101
- RBP2 Rechargeable battery pack for SmartClass Fiber, LiON battery 3.7 V/20 W 2305/90.02
- PS4 power supply for SmartClass Fiber, 12 V, 2 A 2305/90.01
- UC4 hands-free carrier, for SmartClass Fiber 2128/01
- SC22 soft shoulder case, for SmartClass Fiber 2128/03
- FC-type optical adapter 2155/00.05
- SC-type optical adapter 2155/00.26
- ST-type optical adapter 2155/00.32
- USB cable USB-A to Micro-USB K 807

General

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser class</td>
<td>Class 1 Laser Product (IEC 60825-1:2007)</td>
</tr>
<tr>
<td>Display</td>
<td>3.5 in color LCD touch screen, 4:3 ratio</td>
</tr>
<tr>
<td>Data storage</td>
<td>Up to 5.000 inspection images</td>
</tr>
<tr>
<td>Data readout</td>
<td>Via USB int.</td>
</tr>
<tr>
<td>Remote control</td>
<td>Via USB or Ethernet</td>
</tr>
<tr>
<td>Inspection functions</td>
<td>Live, freeze, store end-face image, auto pass/fail</td>
</tr>
<tr>
<td>Electrical interfaces</td>
<td>USB 2.0 (2x host, type A, 1 x device, Micro-B)</td>
</tr>
<tr>
<td>Power source</td>
<td>AC adapter, 8x AA alkaline or rechargeable LiON battery pack</td>
</tr>
<tr>
<td>Power mode</td>
<td>Active, Auto-off (programmable)</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>208 x 112 x 64 mm (8.2 x 4.4 x 2.5 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>750 g (1.6 lb)</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>–10 to +55°C (14 to 122°F)</td>
</tr>
<tr>
<td>Storage temperature range</td>
<td>–20 to +70°C (−4 to 158°F)</td>
</tr>
</tbody>
</table>

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To reach the Viavi office nearest you, visit viavisolutions.com/contacts.

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