

VIAVI

SmartClass Fiber

OLS-85 Inspection-Ready Optical Light Source

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

OLS-85	OLS-85 2313/01	OLS-85 2313/22	OLS-85 2313/06 2313/26	OLS-85 2313/05
Nominal wavelengths ¹	1310/ 1550 nm	1310/1550/ 1625 nm	1310/ 1490/ 1550/ 1625 nm	MM: 850/1300 nm SM: 1310/1550 nm
Spectral width	<5 nm	<5 nm	<5 nm	MM: 50/170 nm SM: 5/5 nm
Launch conditions				EF compliant at 850 nm
Output power (settable in 0.01 dB steps)	0 to -3 dBm	-3 to -6 dBm	-3 to -6 dBm	MM: -21 to -24 dBm SM: 0 to -3 dBm
Stability ² 15 min/8 hr	0.02/0.2 dB	0.02/0.2 dB	0.02/0.2 dB	0.02/0.2 dB
Source modes	CW, tone, auto- λ 3, multi- λ 3			
Tone generator	270 Hz, 1 kHz, 2 kHz			
Battery life	>10 h (lithium-ion, LiON)/ >8 h (alkaline)			
Optical interface	PC	APC	PC (2313/06) APC (2313/26)	PC (50/125 μ m MM port) PC (SM port)
Adapter type	Interchangeable SC, FC, ST adapters			

- ± 20 nm for 850/1300/1310/1550 nm and ± 3 nm for 1490/1625 nm
- Between -10 to $+55^{\circ}\text{C}$ with $\Delta T = \pm 0.3$ K after a 20-minute warm-up
- Works in conjunction with OLP-3x, OLP-55, and OLP-85

General	
Laser class	Class 1 Laser Product (IEC 60825-1:2007)
Display	3.5 in color LCD touch screen, 4:3 ratio
Data storage	Up to 5,000 inspection images
Data readout	Via USB int.
Remote control	Via USB or Ethernet
Inspection functions	Live, freeze, store end-face image, auto pass/fail
Electrical interfaces	USB 2.0 (2x host, type A, 1 x device, Micro-B)
Power source	AC adaptor, 8x AA alkaline or rechargeable LiON battery pack
Power mode	Active, Auto-off (programmable)
Dimensions (H x W x D)	208 x 112 x 64 mm (8.2 x 4.4 x 2.5 in)
Weight	750 g (1.6 lb)
Operating temperature range	-10 to $+55^{\circ}\text{C}$ (14 to 122°F)
Storage temperature range	-20 to $+70^{\circ}\text{C}$ (-4 to 158°F)

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)

Description	Part Number
OLS-85 Optical Laser Sources	
OLS-85 1310/1550 nm, PC	2313/01
OLS-85 850/1300/1310/1550 nm, PC	2313/05
OLS-85 1310/1490/1550/1625 nm, PC	2313/06
OLS-85 1310/1550/1625 nm, APC	2313/22
OLS-85 1310/1490/1550/1625 nm, APC	2313/26
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

VIAMI Care Support Plans

Increase your productivity for up to 5 years with optional VIAMI Care Support Plans:

- Maximize your time with on-demand training, priority technical application support and rapid service.
- Maintain your equipment for peak performance at a low, predictable cost.

Plan availability depends on product and region. Not all plans are available for each product or in every region. To find out which VIAMI Care Support Plan options are available for this product in your region, contact your local representative or visit: viavisolutions.com/viavicareplan

Features

*5-year plans only

Plan	Objective	Technical Assistance	Factory Repair	Priority Service	Self-paced Training	5 Year Battery and Bag Coverage	Factory Calibration	Accessory Coverage	Express Loaner
 BronzeCare	Technician Efficiency	Premium	✓	✓	✓				
 SilverCare	Maintenance & Measurement Accuracy	Premium	✓	✓	✓	✓*	✓		
 MaxCare	High Availability	Premium	✓	✓	✓	✓*	✓	✓	✓



Contact Us **+1 844 GO VIAMI**
(+1 844 468 4284)

To reach the VIAMI office nearest you,
visit viavisolutions.com/contact

© 2022 VIAMI Solutions Inc.
Product specifications and descriptions in this document are subject to change without notice. Patented as described at viavisolutions.com/patents ols85-ds-fop-nse-ae 30175868 905 0322