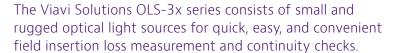








OLS-34/35/36 Optical Light Sources



All Viavi sources are equipped with Auto- λ and Multi- λ functions compatible with any Viavi power meter. This one button operation provides a quick, simple, and error-free testing solution, which makes SmartPocketTM sources the ideal tools for daily field testing.

Pocket-Sized Light Sources for All Kind of Applications

SmartPocket optical light sources (OLS-3x) are ideal tools to complement the OLP-3x for insertion loss and continuity testing in both multimode and single-mode optical fiber networks. They offer a dedicated and cost-optimized solution for testing and troubleshooting optical fibers in the field.

- The OLS-34 covers LAN/WAN access and enterprise multimode networks with 850/1300 nm
- The OLS-35 covers all standard single mode telecommunication network applications with $1310/1550\ \mathrm{nm}$
- The OLS-36 quad-wavelength solution covers both multimode and single-mode wavelengths in one instrument

Key Benefits

- Cost-effective, rugged, and compact optical light sources
- Interchangeable connectors for maximum flexibility available
- Auto λ and TwinTest transmission modes
- 3 year calibration
- Combines up to 4 wavelengths in one instrument (SM+MM)

Applications

- Link insertion loss measurements and continuity checks
- Enterprise/LAN networks with 850/1300 nm multimode wavelengths capability
- Access and metro (LAN/WAN) networks with multimode and single-mode testing combinations
- Standard single-mode wavelengths for any telecom, CATV, and military application





- Battery status with low level indicator
- Power mode (PERM, ECON)
- Output wavelength setting
- Output power in dBm
- Auto wavelength coding
- Tone generation



Rugged, shock resistant, and splash proof design

Four buttons for fast, easy operation

3-way powering

- AA dry
- AA rechargeable
- AC operation via micro USB

Two connector solutions offer more flexibility:

- Fixed adapters: FC, SC, LC
- Interchangeable adapters: FC, SC, ST, LC, DIN





SmartPocket OMK-3x optical test kits include an OLS-3x optical light source, an OLP-3x optical power meter, and accessories





Technical Specifications

	OLS-34 Multimode Light Source	OLS-35 Single-mode Light Source	OLS-36 Quad Light Source
Source type	LED	Laser	LED/Laser
Laser safety	IEC 60825-1: 2003 IEC 60825-1: 2007	IEC 60825-1: 2007	IEC 60825-1: 2003 IEC 60825-1: 2007
Fiber type	MM (50/125 μm)	SM (9/125 μm)	MM (50/125 μm)/SM (9/125 μm)
Optical interface type	PC/1 single port for all wavelengths	PC/1 single port for all wavelengths	PC/1 port for MM and 1 port for SM
Optical interface connectors	Interchangeable LC, FC, SC, ST, DIN	Fixed: LC, FC, SC Interchangeable LC, FC, SC, ST, DIN	Fixed: SC Interchangeable: LC, FC, SC, ST, DIN
Central wavelength	850 nm (±20 nm) 1300 nm (–20 nm/+40 nm)	1310 nm (±20 nm) 1550 nm (±20 nm)	850 (±20 nm) 1300 (-20 nm/+40 nm) 1310 (±20 nm) 1550 (±20 nm)
Spectral width ¹	<170 nm	<5 nm	<170 nm/<5 nm
Output power	-20 dBm ²	−7 dBm	-20 dBm ² /-7 dBm
Stability short term (15 min) ³	±0.02 dB	±0.02 dB	±0.02 dB
Stability long term (8h) ³	±0.05 dB	±0.05 dB	±0.05 dB
Tone generation	270 Hz, 1 kHz, 2 kHz	270 Hz, 1 kHz, 2 kHz	270 Hz, 1 kHz, 2 kHz
Auto λ mode ⁴	Yes	Yes	Yes
Multi λ mode ⁴	Yes (2 λs)	Yes (2 λs)	Yes (4 λs)
Launch conditions	CPR capability for MM launch conditions		CPR capability for MM launch conditions

- 1. FWHN
- 2. Into a 50/125 μm fiber.
- 3. After 20 minutes warm-up time, at ambient temperature range -10° C to $+55^{\circ}$ C, $\Delta T = \pm 0.3$ K.
- With Viavi power meters.

General Specifications

Power Supply			
Dry batteries	2 AA 1.5 V		
Rechargeable batteries	2 AA NiMH 1.2 V		
AC operation	Via micro USB and SNT-505		
Battery life (CW) ^s	30 h (MM)/80 h (SM) Automatic power-off after 20 minutes		
Environmental Conditions			
EMI/ESD	CE compliance		
Electrical safety	EN 61010-1: 2002		
Recommended calibration interval	3 years		
Operating temperature	-10 to +60°C/+14 to +140°F		
Storage temperature	-40 to +70°C/-40 to +158°F		
Dimensions (H x W x D)	30 x 80 x 150 mm/1.2 x 3.1 x 5.9 in		
Weight	200 g/0.45 lb		

5. Typical.



Ordering Information

Description	Part Number
OLS-34 LED source 850/1300 nm, MM, interchangeable adapter	2303/01
OLS-35 laser source 1310/1550 nm, SM, interchangeable adapter	2303/11
OLS-35 laser source 1310/1550 nm, SM, fixed FC/PC adapter	2303/12
OLS-35 laser source 1310/1550 nm, SM, fixed SC/PC adapter	2303/13
OLS-35 laser source 1310/1550 nm, SM, fixed LC/PC adapter	2303/15
OLS-36 quad source 850/1300/1310/1550 nm, SM, MM, interchangeable adapter	2303/21
OLS-36 quad source 850/1300/1310/1550 nm, SM, MM, fixed SC/PC adapter	2303/23

Description	Part Number		
Optional Accessories			
Fiber Cleaning Consumables Kit	FCR-CLN-01		
NiMH rechargeable batteries, mignon AA, 1.2 V (2 batteries required)	2237/90.02		
SNT-505; universal AC power adapter, micro USB connector	2302/90.01		
ST universal adapter	2150/00.32		
DIN universal adapter	2150/00.50		
FC universal adapter	2150/00.51		
SC universal adapter	2150/00.58		
LC universal adapter	2150/00.59		

Each product includes:

- 2 AA alkaline batteries
- Neck strap
- Belt bag

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