SmartPocket™

OLS-34/35/36 Optical Light Sources

The JDSU OLS-3x series consists of small and rugged optical light sources for quick, easy, and convenient field insertion loss measurement and continuity checks.

All JDSU sources are equipped with Auto- λ and Multi- λ functions compatible with any JDSU power meter. This one button operation provides a quick, simple, and error-free testing solution, which makes SmartPocket™ 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 singlemode telecommunication network applications with 1310/1550 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

▶ **Data Sheet**

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A Small Product with Big Capabilities!

Large, clear screen displays:

- 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. FWHM.
2. Into a 50/125 μm fiber.
3. After 20 minutes warm-up time, at ambient temperature range −10°C to +55°C, ΔT = ±0.3 K.
4. With JDSU 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)[1]	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

1. Typical.

Ordering Information

Name/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

Name/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

English and German user manuals are available at: www.jdsu.com/en-us/Test-and-Measurement/Products/a-z-product-list/Pages/olp-pocket.aspx

A French user manual is available at: www.jdsu.com/fr-fr/Test-and-Measurement/Products/a-z-product-list/Pages/ols-pocket.aspx