



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

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 λ s)	Yes (2 λ s)	Yes (4 λ s)
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 $+55^{\circ}\text{C}$, $\Delta T = \pm 0.3$ K.
4. With JDSU power meters.

General Specifications

Power Supply	
Dry batteries	2 AA 1.5V
Rechargeable batteries	2 AA NiMH 1.2V
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 $+60^{\circ}\text{C}$ / $+14$ to $+140^{\circ}\text{F}$
Storage temperature	-40 to $+70^{\circ}\text{C}$ / -40 to $+158^{\circ}\text{F}$
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

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

Name/Description	Part Number
Optional Accessories	
Fiber Cleaning Consumables Kit	FCR-CLN-01
NiMH rechargeable batteries, mignon AA, 1.2V (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



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