SmartPocket™ Optical Light Source

OLS-34/35/36

Key features
- Cost-effective, rugged and compact solution
- 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 check
- Enterprise / LAN networks with 850/1300 nm multimode wavelengths capability
- Access and metro (LAN/WAN) networks with multimode and singlemode testing combination.
- Standard singlemode wavelengths for any telecom, CATV and military applications.

The JDSU OLS-3x series is the new generation of small and rugged optical light sources for quick, easy and convenient field insertion loss measurement and continuity check.

All JDSU sources are equipped with Auto- λ and Multi- λ functions compatible with any JDSU power meters. This one button operation provides a quick, simple and error-free testing solution, which makes SmartPocket™ sources the ideal tool for daily field testing.

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A "small" product with "big" capabilities!

Clear big and sharp screen for displaying of:

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

4 buttons straight forward operations

Small housing fits in your pocket

Rugged, shock resistant and splash proof design

3-way powering

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

3-year calibration period

Two connector solutions for more flexibility:

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

Pocket-sized light sources for all kind of applications

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

- The OLS-34 is dedicated to 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 is the Quad-wavelength solution covering both multimode and singlemode wavelengths in one instrument

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Technical Specifications

	OLS-34 Multimode Light Source	OLS-35 Singlemode 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	Fixed: ST, FC, SC Interchangeable LC, FC, SC, ST, DIN	Fixed: LC, FC, SC Interchangeable LC, FC, SC, ST, DIN	Fixed: LC, FC, 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 tempeature range −10°C to +55°C, ΔT = ± 0.3 K
4. With JDSU Power meters

General Specifications

Power supply	
Dry batteries	2x Mignon (AA) 1.5 V
Rechargeable batteries	2x Mignon (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"
Weight	200 g / 0.45 lb

1. Typical

Ordering Information

Reference	Name/Description
2303/01	**OLS-34 LED Source** 850/1300 nm, MM, interchangeable adapter
2303/02	**OLS-34 LED Source** 850/1300 nm, MM, fixed FC/PC adapter
2303/03	**OLS-34 LED Source** 850/1300 nm, MM, fixed SC/PC adapter
2303/04	**OLS-34 LED Source** 850/1300 nm, MM, fixed ST/PC adapter
2303/11	**OLS-35 Laser Source** 1310/1550 nm, SM, interchangeable adapter
2303/12	**OLS-35 Laser Source** 1310/1550 nm, SM, fixed FC/PC adapter
2303/13	**OLS-35 Laser Source** 1310/1550 nm, SM, fixed SC/PC adapter
2303/15	**OLS-35 Laser Source** 1310/1550 nm, SM, fiexed LC/PC adapter
2303/21	**OLS-36 Quad Source** 850/1300/1310/1550 nm, SM, MM, interchangeable adapter
2303/22	**OLS-36 Quad Source** 850/1300/1310/1550 nm, SM, MM, fixed FC/PC adapter
2303/23	**OLS-36 Quad Source** 850/1300/1310/1550 nm, SM, MM, fixed SC/PC adapter
2303/25	**OLS-36 Quad Source** 850/1300/1310/1550 nm, SM, MM, fixed LC/PC adapter

Each product comes with AA alkaline batteries, operating manual, neck strap and a belt bag.

Optional Accessories

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

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