

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

**3-year
calibration
period**



**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

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 μ m) | SM (9/125 μ m) | MM (50/125 μ m)/SM (9/125 μ m) |
| 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 (\pm 20 nm) 1300 nm (-20 nm/+40 nm) | 1310 nm (\pm 20 nm) 1550 nm (\pm 20 nm) | 850 (\pm 20 nm) 1300 (-20 nm/+40 nm) 1310 (\pm 20 nm) 1550 (\pm 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 | \pm 0.02 dB | \pm 0.02 dB | \pm 0.02 dB |
| Stability long term (8h) ³ | \pm 0.05 dB | \pm 0.05 dB | \pm 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 μ m fiber3. After 20 minutes warm-up time, at ambient temperature range -10°C to $+55^{\circ}\text{C}$, $\Delta T = \pm 0.3 \text{ K}$

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 $+60^{\circ}\text{C}$ / $+14$ 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" |
| 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, fixed 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 |

Test & Measurement Regional Sales

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|--|---|---|---|--|
| NORTH AMERICA TEL: +1 866 228 3762 FAX: +1 301 353 9216 | LATIN AMERICA TEL: +1 954 688-5660 FAX: +1 954 3454668 | ASIA PACIFIC TEL: +852 2892 0990 FAX: +852 2892 0770 | EMEA TEL: +49 7121 86 2222 FAX: +49 7121 86 1222 | WEBSITE: www.jdsu.com/test |
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