

# SmartPocket™ Optical Light Source

## OLS-34/35/36



- Key features**
- Cost-effective, rugged and high performance solution
  - Interchangeable connectors for maximum flexibility
  - Auto  $\lambda$  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- $\lambda$  and Multi- $\lambda$  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.

## 2

**A “small” product with “big” capabilities!**

Clear big and sharp screen for displaying of:

- Battery status with low level indicator
- Power mode (PERM, ECO)
- Output wavelength setting
- Output power in dBm
- Auto wavelength coding
- Modulation frequency or CW

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 provides the ideal complement tool to the OLP-3x for insertion loss and continuity testing in both multimode and singlemode optical fiber networks. It offers 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

## 3

## Technical Specifications

	<b>OLS-34</b> <b>Multimode Light Source</b>	<b>OLS-35</b> <b>Singlemode Light Source</b>	<b>OLS-36</b> <b>Quad Light Source</b>
Source Type	LED	Laser	LED/Laser
Fiber type	MM (50/125 $\mu$ m)	SM (9/125 $\mu$ m)	MM (50/125 $\mu$ m)/SM (9/125 $\mu$ 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 ( $\pm$ 20 nm)	1310 nm ( $\pm$ 20 nm) 1550 nm ( $\pm$ 20 nm)	850 ( $\pm$ 20 nm)1300 ( $\pm$ 20 nm) 1310 ( $\pm$ 20 nm)1550 ( $\pm$ 20 nm)
Spectral width <sup>1</sup>	<170 nm	<5 nm	<170 nm/<5 nm
Output power	- 20 dBm <sup>2</sup>	- 7 dBm	-20 dBm/ -7 dBm
Stability short term (15 min) <sup>3</sup>	$\pm$ 0.02 dB	0.02 dB	$\pm$ 0.02 dB
Stability long term (8h) <sup>3</sup>	$\pm$ 0.05 dB	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 $\lambda$ mode <sup>4</sup>	Yes	Yes	Yes
Multi $\lambda$ mode <sup>4</sup>	Yes (2 $\lambda$ s)	Yes (2 $\lambda$ s)	Yes (4 $\lambda$ s)
	CPR capability for MM launch conditions		CPR capability for MM launch conditions

1. FWHM

2. Into a into a 50  $\mu$ -multimode fiber

3. After 20 minutes warm-up time

4. With JDSU Power meters

## General Specifications

<b>Power supply</b>	
Dry batteries	2x Mignon (AA) 1.5 V
Rechargeable batteries	2x Mignon (AA) NiMH 1.2 V
AC operation	via USB (option)
Battery charging	no internal charging
Battery life	15 hrs/60 h Automatic power off after 20 minutes
<b>Environmental conditions</b>	
EMI/ESD	(CE compliance)
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

### Ordering Information

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

Each product comes with dry batteries, operating manual and a soft case.

### Accessories

<b>FCR-CLN-01</b>	Fiber Cleaning Consumables Kit
<b>2237/90.02</b>	NiMH rechargeable batteries, Mignon AA, 1.2 V (2 batteries required)
<b>2302/90.01</b>	AC adapter SNT-505
<b>2150/00.xx</b>	Interchangeable adapters: ST, SC, FC, LC, DIN

### Test & Measurement Regional Sales

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