



A SMART, Future-Proof Optical Laser Source



Key features

- Laser source with up to four wavelengths offers flexibility in singlemode and multimode applications.
 - Output level adjustment ensures correct power for individual applications.
 - Communication with JDSU power meters for autolambda, TWINtest, and TRIPLEtest functions.

- Economical option for fiber tracing, routing, and

- High output level stability due to built-in optical isolator and optical power control.
- FTTx ready
- Visual fault locator option at 635 nm

New

continuity checking – Universal push-pull adapter 2.5 mm (1.25 mm adapter optional)

JDSU's SMART optical handhelds go beyond the basics

With more than 100,000 optical handhelds already in use, JDSU continues the success story with the SMART optical handhelds. The SMART class help your network move to the next level of performance. JDSU's SMART optical handhelds encompass a new, intelligent, and next level product line for testing all optical signals and systems, including broadband, PONs, and Gigabit Ethernet.

All of JDSU's SMART optical handhelds provide:

- ••An extended number of calibration wavelengths for the highest performance range in the industry.
- •The SmartStar graphical user interface for fast, easy, and straightforward operation.
- ••The SmartEnergy power supply management system.
- •The SmartBag for safe and hands-free operation and transport.
- ••USB port for remote operation.
- ••Robust, shock-proof, and splash-proof design for field operation.

The **OLS-55/-56 SMART Optical Laser Source** is available in different versions for different applications, offering greater flexibility for testing, installing, and maintaining singlemode and multimode optical networks.

The OLS-55/-56 is designed for optimal use with the JDSU SMART power meter portfolio.

OLS-55/56 SMART Optical Laser Source



OCK-10 Optical Connector Cleaning Kit (accessory)



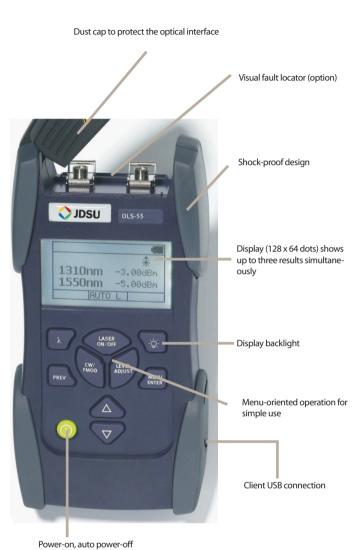
OIM-400 Fiber Microscope



Optical adapters (BN 2150) for laser source output



Worldwide compatible AC adapter/charger (SNT-121A)



(after 20 min)

3

5	D	e	ci	fi	Ca	ať	io	n	s	
	۳	-	-						-	

Specifications		NEW				
	OLS-55 BN 2279/01	OLS-55 BN 2279/02	OLS-55 BN 2279/03	OLS-55 BN 2279/04	OLS-56 BN 2279/05	
Nominal wave- lengths ⁽¹⁾	1310 and 1550 nm	1310, 1550, and 1625 nm	1310, 1490, and 1550 nm	1490, 1625 nm	850, 1300, 1310, and 1550 nm	
Spectral width (RMS)	5 nm	5 nm	5 nm	5 nm	5 nm	
Number of ports	Single port	Single port	Single port	Single port	Dual port	
Fiber type	9/125 μm	9/125 μm	9/125 μm		9/125, 50/125 μm	
Output power range ⁽²⁾	–7 dBm to 0 dBm, separately adjustable	–7 dBm to 0 dBm, separately adjustable	-7 dBm to 0 dBm, ⁽⁵⁾ separately adjustable	-7 dBm to -3 dBm sepa- rately adjustable	 –7 dBm to 0 dBm, separately adjustable⁽⁶⁾ 	
Resolution of power setting	0.01 dB	0.01 dB	0.01 dB	0.01 dB	0.01 dB	
Signal stability ⁽³⁾	Short term: ± 0.02 dB, within 15 min Long term: ± 0.2 dB, within 8 hours	Short term: ± 0.02 dB, within 15 min Long term: ± 0.2 dB, within 8 hours	Short term: ± 0.02 dB, within 15 min Long term: ± 0.2 dB, within 8 hours	Short term: ± 0.02 dB, within 15 minLong term: ± 0.2 dB, within 8 hours	Short term: \pm 0.02 dB, within 15 min Long term: \pm 0.2 dB, within 8 hours	
Output power accuracy (at nomi- nal wavelengths) ⁽²⁾	± 0.3 dB	± 0.3 dB	± 0.3 dB	± 0.3 dB	± 0.3 dB	
Modes	Continuous wave (CW), modulated (270 Hz, 1 kHz, 2 kHz), Auto- $\lambda^{(4)}$ (signal coding for automatic power meter wavelength detection)	Continuous wave (CW), modulated (270 Hz, 1 kHz, 2 kHz), Auto- $\lambda^{(4)}$ (signal coding for automatic power meter wavelength detection)	Continuous wave (CW), modulated (270 Hz, 1 kHz, 2 kHz), Auto- $\lambda^{(4)}$ (signal coding for automatic power meter wavelength detection)	Continuous wave (CW), modulated (270 Hz, 1 kHz, 2 kHz), Auto- $\lambda^{(4)}$ (signal coding for automatic power meter wavelength detection)	Continuous wave (CW), modulated (270 Hz, 1 kHz, 2 kHz), Auto- $\lambda^{(4)}$ (signal coding for automatic power meter wavelength detection)	

(1) ± 20 nm typically

(2) CW signal, $T = 23^{\circ}C \pm 3$ K, excluding connector uncertainty

(3) At ambient temperature range -10°C to +55°C, $\Delta T = \pm 0.3$ K

(4) Works only with the JDSU OLP-55

(5) -7 dBm to -3 dBm for 1490 nm

(6) 850 nm laser: output power is adjustable between -7 to -5 dBm

(7) One wavelength active, output power -7 dBm

Fiber detection with different modulation frequencies (tone detection) Remote control via USB interface

Display

Graphical display, resolution of 128×64 dots, displays up to four laser status screens Backlight function switchable via a separate key

Optical interface

Optical connector interchangeable adapter from BN 2150/00.xx range is available in flat or angled physical contact systems

Power supply

Four dry batteries Mignon/AA, 1.5 V or NiMH rechargeable cells Mignon/AA, 1.2 V Operating time ⁽⁷⁾ from dry batteries >45 h Batteries/NiCd/NiMH power saving: The instrument switches off automatically after ~20 min (function can be disabled) AC line operation via separate AC adapter Integrated fast battery charging function (2 hours)

Electromagnetic compatibility

Corresponds to IEC 61326 (CE conformance)

OLS-55/56 Smart Optical Laser Source

Calibration					
Suggested calibration	interval	3 years			
Ambient temperature					
Nominal range of use		–10°C to +55°C			
Storage and transport		-40°C to +70°C			
Dimensions and weight					
$W \times H \times D$ approximat		95 × 60 × 195 mm (3.74 × 2.36 × 7.68 in)			
Weight approximately		500 g (1.1 lb)			
Accessories for visual fault locator option					
BN 2252/02	Adapter for 1.25 mm UP	Р			
		9			
S3122	Adapter from 2.5 mm UI	ንP to LC (1.25 mm)			
		-			

Detailed information regarding test adapters, cables, and fiber optic sleeves can be found in a separate datasheet entitled "JDSU Fiber Optic Test Adapters and Cables".

Ordering Information

PC)
APC)
5 nm, PC)
5 nm, APC)
0 nm, PC)
0 nm, APC)
PC)
/1300 nm)
AC adapter (SNT-121A)
size (4 required)

Included with the OLS-55

Interchangeable adapter from BN 2150/00.xx range Four dry batteries Mignon/AA, 1.5 V Operating manual MT-1S Belt bag

Ordering number	Accessories
BN 2150/00.32	Optical adapter ST type
BN 2150/00.58	Optical adapter SC type
BN 2150/00.51	Optical adapter FC type
BN 2150/00.50	Optical adapter DIN type
BN 2150/00.59	Optical adapter LC type
BN 2252/01	OVF-1 Visual Fault Locator
BN 2229/90.21	OCK-10 Optical Connector Cleaning Kit
BN 2229/90.07	Optical cleaning tape
BN 2229/90.08	Spare tape for optical cleaning tape
BN 2237/90.02	NiMH cells, Mignon/AA, 1.2 V (4 required per instrument)
BN 2277/90.01	SNT-121A Worldwide compatible AC adapter
K804	USB connection cable
BN 2277/90.02	MT-1S belt bag for one instrument
BN 2126/03	MT-2S soft bag for two instruments
BN 2126/04	MT-3S soft bag for three instruments
BN 2093/31	MK-3S hard case for three instruments
BN 2279/90.01	Calibration Report



All statements, technical information and recommendations related to the products herein are based upon information believed to be reliable or accurate. However, the accuracy or completeness thereof is not guaranteed, and no responsibility is assumed for any inaccuracies. The user assumes all risks and liability whatsoever in connection with the use of a product or its applications. JDSU reserves the right to change at any time without notice the design, specifications, fluction, fit or form of its products described herein, including withdrawal at any time of a product of more information. JDSU makes no representations that the products herein are free from any intellectual property claims of others. Please contact JDSU for more information. JDSU and the JDSU logo are trademarks of JDS Uniphase Corporation. Other trademarks are the property of their respective holders. © 2007 JDS Uniphase Corporation. All rights reserved. 30137109 502 0707 SMART-OLS55.DS.FOP.TM.AE

Test & Measurement Regional Sales

NORTH AMERICA	LATIN AMERICA	ASIA PACIFIC	EMEA	WEBSITE: www.jdsu.com
TEL: 1 866 228 3762	TEL:+55 11 5503 3800	TEL:+852 2892 0990	TEL:+49 7121 86 2222	
FAX: +1 301 353 9216	FAX:+55 11 5505 1598	FAX:+852 2892 0770	FAX:+49 7121 86 1222	