

SmartClass™ OBS-55/500/550 Optical Broadband Light Sources

High Performance Light Source for PMD, CD and Attenuation Profile (AP) Measurements



OBS-55: For PMD and Attenuation Profile measurement



OBS-550: For CD, PMD and Attenuation Profile measurement

Key benefits

- Cost-effective solution, designed for high-performance testing
- SmartClass design for harsh environmental conditions
- · Battery operated, field usable handheld
- Broadband wavelength range to cover DWDM applications
- High dynamic range for ultra-long haul PMD and CD testing

10 GE service delivery/40G network deployments and trials are driving fiber characterization test out to field tech support groups.

Cost effective solution and fast return on investment are required due to wider test set dispatch. The growing number of projects is driving an increasing demand for higher productivity with better reliability and availability.

JDSU's Smart optical handhelds go beyond the basics

The **OBS-55** Smart Optical Broadband Source with its polarized broadband spectrum of light allows to perform high dynamic range PMD measurements. With its high dynamic power range, the unit is able to measure the complete fiber link, including all components in the link (like ROADMs and EDFAs).

The **OBS-500/550** combines three applications in one rugged and splash-proofed field solution. Its high output power (OBS-550) and wide wavelength range enable the characterization of any fiber network configuration. In combination with the JDSU ODM module (T-BERD/MTS-6000/8000), high performance CD, PMD and AP measurements can be executed.



Specifications

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	OBS-55	OBS-500	OBS-550	
Wavelength range	1520 to 1620 nm	1485 to 1640 nm	1485 to 1640 nm	
Output power level	>0 dBm (>-3 dBm modulated)	>8 dBm	>16 dBm ⁽¹⁾ >8 dBm ⁽²⁾	
Spectral power density	>-42 dBm/0.1 nm	>-46 dBm/0.1 nm >-46 dBm/0.1 nm (1485 to 1640 >-30 dBm/0.1 nm (1530 to 1610		
State of polarization	Polarized	Polarized or non- polarized	Polarized or non-polarized ⁽¹⁾	
Operating mode indication Optical interface	Display (128 x 64 dots) PC/interchangeable LED (no display) PC/interchangeable adapter system			
Battery life	8 hours ⁽³⁾ 2.5 hours ^{(2), (3)}			
Power supply	Four dry batteries Mignon/AA 1.5 V or NiMH rechargeable cells Mignon/AA AC line operation via separate AC adapter Nominal range of use 100 to 240 V, 50/60 Hz			

- (1) non-polarized for "AP" and "CD" (HD) mode
- (2) in broadband (BB) mode
- (3) at 20 °C ambient temperature

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Operation	−10 °C to +40 °C
Storage	−40 °C to +70 °C

Dimensions and weight

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$W \times H \times D$	$15 \times 195 \times 60 \text{ mm} (3.74 \times 7.68 \times 2.36 \text{ in})$
Weight	500 g (1.1 lb)

OBS-500/550

$W \times H \times D$	$125 \times 50 \times 260 \text{ mm} (9.05 \times 4.72 \times 1.97 \text{ in})$
Weight	600 g (1.3 lb)



Ordering information

Ordering number	Instrument	
BN 2279/31 (EOBS55)	OBS-55 (for E81PMD & E81WDMPMD modules)	
BN 2279/33 (EOBS500)	OBS-500 (for E81DISPAP & E81CD modules)	
BN 2279/32 (EOBS550)	OBS-550 (for E81DISPAP & E81CD modules)	

Included with the OBS-55	
BN 2150/00.xx	Interchangeable adapter
BN 2237/90.02	Four NiMH rechargeable cells Mignon/AA
BN 2277/90.01	SNT-121 AC adapter
	Operating manual
BN 2277/90.02	MT-1S Belt bag

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BN 2150/00.xx	Interchangeable adapter	
BN 2237/90.02	Four NiMH rechargeable cells Mignon/AA	
BN 2277/90.01	SNT-121 AC adapter	
	Operating manual	
BN 2279/90.10	Soft 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 2279/90.10	OBS-550 soft bag

Test & Measurement Regional Sales

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