

# SmartClass OBS-500/550 Optical Broadband Light Sources

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

High speed metro/core and data center interconnect (DCI) network deployments or upgrades 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.

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 VIAVI Optical Dispersion Measurement Modules (ODM), it allows high performance CD, PMD and AP measurements to be performed.



## KEY BENEFITS

- Cost-effective solution, designed for high-performance testing
- SmartClass™ design for harsh environmental conditions
- Battery-operated, portable field handheld
- High dynamic range for ultra-long haul PMD and CD testing
- Compatible with ODM module (8100 Series) modules for PMD, CD and AP Measurements
- Covers the S, C, L bands (1460 – 1640 nm)
- OBS-550 version features a high- dynamic mode to test non amplified links of up to 300 km for PMD and 260 km for CD
- Both versions allow testing through in-line amplifiers/EDFAs

Interchangeable optical adapter system



- Select mode:
- High power (OBS-550)
  - Broadband

- Select application:
- PMD
  - CD
  - AP

Optical adapters (2150)

Battery compartment (back side)

## SPECIFICATIONS

Wavelength range	OBS-500 1460 to 1640 nm	OBS-550 1460 to 1640 nm
Output power level	>8 dBm	>16 dBm <sup>1</sup> >8 dBm <sup>2</sup>
Spectral power density	>-46 dBm/0.1 nm	>-46 dBm/0.1 nm (1485 to 1640 nm) <sup>2</sup> >-30 dBm/0.1 nm (1530 to 1610 nm) <sup>1</sup>
State of polarization	Polarized or non-polarized	Polarized or non-polarized <sup>1</sup>
Operating mode indication	LED (no display)	
Optical interface	PC with interchangeable adapter system	
Battery life	2.5 hours <sup>3</sup>	
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	

<sup>1</sup> non-polarized for "AP" and "CD" (HD) mode

<sup>2</sup> in broadband (BB) mode

<sup>3</sup> at 20 °C ambient temperature

Temperature	
Operation	-10°C to +40°C
Storage	-40°C to +70°C
Dimensions and weight	
<b>OBS-500/550</b>	
W × H × D	125 × 50 × 260 mm (9.05 × 4.72 × 1.97 in)
Weight	600 g (1.3 lb)
<b>Included with the OBS-500/-550</b>	
2150/00.xx	One interchangeable adapter
2237/90.02	Four NiMH rechargeable cells Mignon/AA
2277/90.01	SNT-121 AC adapter
	Operating manual
2279/90.10	Soft bag
Ordering Information	
Ordering number	Description
2279/32	OBS-550 Optical Broadband Source High Power
2279/33	OBS-500 Optical Broadband Source 1460 to 1625nm
2150/00.32	Optical adapter ST type
2150/00.58	Optical adapter SC type
2150/00.51	Optical adapter FC type
2150/00.50	Optical adapter DIN type
2229/90.21	OCK-10 Optical Connector Cleaning Kit
2229/90.07	Optical cleaning tape
2229/90.08	Spare tape for optical cleaning tape
2237/90.02	NiMH cells, Mignon/AA, 1.2 V (4 required per instrument)
2277/90.01	SNT-121A Worldwide compatible AC adapter
K804	USB connection cable
2279/90.10	OBS-500/-550 soft bag



### Quality Testing

Our products undergo rigorous quality testing before shipment to ensure their excellence.



### Packaging

We meticulously package our products to guarantee they arrive at their destination in pristine condition.



### Transport

We prioritize swift transportation, minimizing your waiting time to receive your order promptly.



### Delivery

Our delivery service is designed to bring the products you've ordered directly to your doorstep, tailored to your specific preferences.