

## SmartClass OBS-500/550 Optical Broadband Light Sources

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

10 GE /40 GE service delivery and 40G /100G 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 Modules (ODM) (MRDISPAP & DISPAP modules for T-BERD/MTS-6000A and - 8000 platforms), high performance CD, PMD and AP measurements can be executed.



## **KEY BENEFITS**

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



## Interchangeable optical adapter system



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 dBm¹ >8 dBm²
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>2,3</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	

 $<sup>^{\</sup>mbox{\tiny 1}}$  non-polarized for "AP" and "CD" (HD) mode

<sup>&</sup>lt;sup>3</sup> at 20 °C ambient temperature

<u>'</u>		
Temperature		
Operation	−10°C to +40°C	
Storage	−40°C to +70°C	
Dimensions and weight		
OBS-500/550		
$W \times H \times D$	125 × 50 × 260 mm (9.05 × 4.72 × 1.97 in)	
Weight	600 g (1.3 lb)	
Included with the OBS-500/-550		
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 Opitical 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	
-7	3	
2237/90.02	NiMH cells, Mignon/AA, 1.2 V (4 required per instrument)	
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2237/90.02	NiMH cells, Mignon/AA, 1.2 V (4 required per instrument)	
2237/90.02 2277/90.01	NiMH cells, Mignon/AA, 1.2 V (4 required per instrument) SNT-121A Worldwide compatible AC adapter	



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<sup>&</sup>lt;sup>2</sup> in broadband (BB) mode