

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 highdynamic 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





Battery compartment (back side)

Specifications

Wavelength Range	0BS-500	OBS-550			
	1460 to 1640 nm	1460 to 1640 nm			
Output Power Level	>8 dBm	>16 dBm ¹			
		>8 dBm ²			
Spectral Power Density	>-46 dBm/0.1 nm	>-46 dBm/0.1 nm (1485 to 1640 nm) ²			
		>-30 dBm/0.1 nm (1530 to 1610 nm) ¹			
State Of Polarization	Polarized or non-polarized	Polarized or non-polarized ¹			
Operating Mode Indication	LED (no display)				
Optical Interface	PC with interchangeable adapter system				
Battery Life	2.5 hours ^{2,3}				
Power Supply	- Four dry batteries Mignon/AA 1.5 V or NiMH rechargeable cells Mign				
	- AC line operation via separate AC adapter				
	- Nominal range of use 100 to 240 V, 50/60 Hz				

¹non-polarized for "AP" and "CD" (HD) mode

³at 20 °C ambient temperature

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		

²in broadband (BB) mode

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				

VIAVI Care Support Plans

Increase your productivity for up to 5 years with optional VIAVI Care Support Plans:

- Maximize your time with on-demand training, priority technical application support and rapid service.
- Maintain your equipment for peak performance at a low, predictable cost.

Plan availability depends on product and region. Not all plans are available for each product or in every region. To find out which VIAVI Care Support Plan options are available for this product in your region, contact your local representative or visit: windows.com/viavicareplan

Features *5-year plans only

Plan	Objective	Technical Assistance	Factory Repair	Priority Service	Self-paced Training	5 Year Battery and Bag Coverage	Factory Calibration	Accessory Coverage	Express Loaner
BronzeCare	Technician Efficiency	Premium	√	✓	√				
SilverCare	Maintenance & Measurement Accuracy	Premium	✓	✓	✓	√ *	✓		
⊘ MaxCare	High Availability	Premium	✓	✓	✓	√ *	√	✓	✓



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