

Inline Optical Power Monitor



NeoPhotonics' Eigenlight Series 500 (S500) is a low cost and compact instrument for measuring the power of a signal being transmitted through an optical fiber. Unlike conventional power meters, this power monitor can be installed in live systems for real-time, continuous power measurement, without compromising system performance.

It features a digital readout of the instantaneous power of a transmitted signal. The display can be toggled between wavelengths, as well as absolute and relative power readings. The device includes a USB port for interfacing with power monitoring software (optional license). The optical interface is FC/APC connectors

NeoPhotonics

The Series 500 utilizes patented optical tap technology that maintains fiber continuity while measuring optical power. This allows for unrivalled performance among competing technology, including ultra-low insertion loss, low polarization dependent loss, and high directivity. A built-in stand, magnets for mounting, and easy battery access make the device practical for use in field and lab applications.

		M510-	M520-
Fiber Type		Single-Mode Fiber	
Insertion Loss ¹	dB	< 0.5	< 0.2
Power Range	dBm	-50 - +16	-40 - +25
Polarization Sensitivity	dB	< 0.2	
Absolute Accuracy ²	dB	< 0.2	
Directivity ³	dB	> 20	
Power Source		1 Lithium Coin Cell (CR2477N) micro-USB	
Battery Life		3 years Typical (slow mode)	
Display Resolution	dB	0.1	
Display Refresh Rate	sec	< 0.1 (fast mode) / < 0.8 (slow mode)	
Output Interface		display / micro-USB (license required)	
Operating Temperature	C	0 - +40	
Storage Temperature	C	-10 - +60	
Size (housing only)	mm	94.5 x 56.5 x 27	
Weight	gr	< 100	
Housing Material		Lexan Body, Santoprene Bumpers	

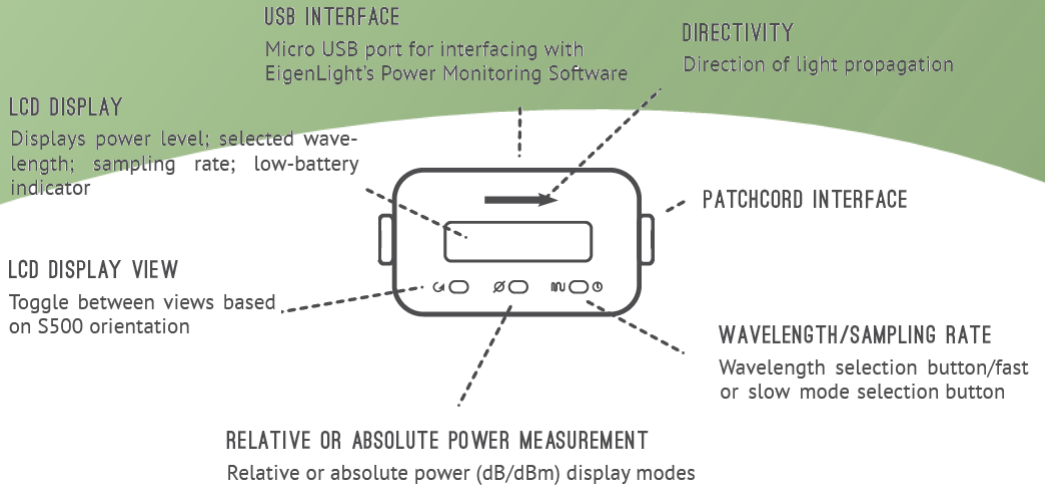
1) excludes connector losses

2) measured at the output and at calibrated wavelength(s)

3) measured at 1550nm

4) purchasing option

Features



Partnumber

M 5 0 - 0 0 0 - 1 5 - 1 5

Power range	↑	Frequency range (SMF only)	↑	Input-Output Connector
1 -50 - +16 dBm		XX 1550nm		15 FC/APC
2 -40 - +26 dBm		12 1310 / 1480 / 1550 nm		

Accessories

Variable Attenuator Patchcord



Remote Access License (DLL and GUI)

