



User's Guide to the MT500 Series Multifunctional OPM



Introduction

The MT500 series of multifunctional optical power meters of Grandway integrates the functions of optical power meter, VFL, RJ45 network cable test, flashlight and other functions. The design is small and lightweight, sturdy and durable, and is suitable for applications such as FTTX broadband installation and maintenance test and optical fiber network cable comprehensive test.

Features

- Stable and reliable, sturdy and durable (free fall is not easy to break)
- Multifunction in one (optical power meter, VFL, RJ45 network cable test, flashlight)
- Universal optical interface SC/FC/ST
- Multi-unit display dBm/dB/mW
- Support relative value measurement function
- Support user calibration function
- Support USB interface charging (optional)
- Support over 80 hours of continuous use time
- Smart power saving



Model

Model	Test Range	Calibrated Wavelength	Accuracy
MT500-A	-70dBm~+6dBm	850/1300/1310/1490/1550/1625/1650nm	±5%
MT500-A10			
MT500-B	-50dBm~+26dBm		
MT500-B10			

Specifications

Items	Specifications
OPM	
Detector Type	InGaAs
Working Wavelength	800nm~1700nm
Display Resolution	0.01dBm
Frequency Identification	270Hz/330Hz/1kHz/2kHz
Optical Port	2.5mm universal FC/SC/ST

Specifications

Items	Specifications
VFL	
Working Wavelength	650nm±30nm
Output Power	MT500-A, MT500-B: 1mW MT500-A10, MT500-B10: 10mW
Output Mode	CW/1Hz/2Hz
Optical Port	2.5mm universal FC/SC/ST
Others	
Battery	Dry battery or Ni MH rechargeable battery (optional)
Continuous working time	80 hours
Auto Power-off	10 minutes
Working Temp	-10°C~+50°C
Storage Temp	-25°C~+70°C
Storage Humidity	0~95% (No condensation)
Dimension	104L×67W×28H(mm)
Weight	140g

Panel Definition

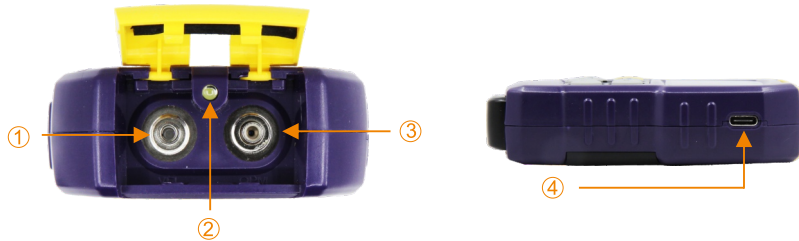


No	Icon	Description
1		Short press to turn on/long press to turn off (Short press to turn off Auto-off function when starting up); In user calibration mode, short press to save the current calibration value
2	LIGHT	Backlight switch, used to turn on/off the backlight
3		Switches VFL on/off, short press to switch CW/1Hz/2Hz; Short press in user calibration mode to decrease 0.05dB
4		Short press to switch measurement unit among dBm, dB and mW; Long press to set current measurement value as reference value; Short press in user calibration mode to increase 0.05dB
5	LED	LED flashlight switch; Press the "LED" + "LIGHT" keys at the same time to enter the user calibration mode, and press the "LED" + "REF" keys at the same time to restore the factory settings
6	λ	Select measurement wavelength: 850/1300/1310/1490/1550/1625/1650nm

Maintenance

- Please disconnect the AC adapter/charger and cover the protective dust cap once you finish using.
- It is recommended to clean the connector of the instrument and the patchcord when they get dirty through use. Optical cleaning pads and anhydrous alcohol is recommended. And please be careful not to get the detergent inside the instrument.

Interface Description



No	Icon	Description
1	VFL	VFL interface
2		LED flashlight
3	OPM	Optical power meter interface
4		Type-C USB charging port
5		RJ45 interface and RJ45 far-end module, used for network line sequence pairing