

MTP-500 PMD Analyser

PMD Characterization Tool for CWDM Installation, Maintenance & Troubleshooting

MTP-500 Polarization Mode Dispersion (PMD) Analyser consisting of an independent optical source (the Source) and the analyser module (the Receiver) tests single-mode fibers quickly and easily. It measures PMD using ITU-T G.650 recommended method with high speed scanning technique, which ensures the best immunity against fiber movement. Windows XP platform and easy to use analysis software shorten learning process and enhance productivity.

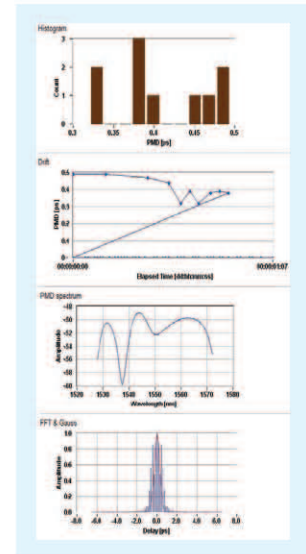
Features

- ◆ ITU-T G.650 recommended method for PMD characterization:
 - Accurate total PMD, PMD coefficient
 - Intelligent certification: Threshold setting for auto Pass/Fail assessment
- ◆ Fully support 10G/40G/100G DWDM optical network upgrade test
- ◆ High-speed scanning technique enables the best immunity against fiber movement during test
- ◆ Compliant with G.650.2, EIA/TIA FOTP-124 & IEC-61941
- ◆ High dynamic range for long span measurement
 - 40dB or 200 km
 - 48dB high power light source available for 240km
- ◆ Industry's fastest measurement speed: 2s
- ◆ Test through optical amplifiers
- ◆ Suitable for aerial fiber infrastructure
- ◆ Windows XP with PMD Analyser software for fast setup and easy handling
- ◆ Easy to use touch screen
- ◆ Professional and comprehensive test report
- ◆ Internal battery supports 5 hours continuous operation
- ◆ Rugged casing, field application ready
- ◆ External ports: RG45x1, RS232x1, USBx2, VGAx1
- ◆ CE, FCC certificates

PMD Analyser



PMD Source



Comprehensive Test Report

Specifications

Model	MTP-500
Operating System	Windows XP
Display	10.4" TFT Touch Screen (800x 600)
Connectivity	USBx2; RJ-45 (10/100 Mbit/s)x1; RS232x1; VGAX 1
Data Storage	4G CF Card
MTP-500-L PMD Source	
Wavelength (nm)	1525-1565
Output Power	<20mW
MTP-500-A PMD Analyser	
Dynamic Range (dB)	>40 (Optional 48dB)
Measurement Method	ITU-T G650
PMD Range ⁽¹⁾	0.2 - 35ps
PMD Accuracy ⁽²⁾	± (0.1ps+5% of PMD)
DGD Range ⁽³⁾	0.5 - 90ps (for Polarization Maintaining Fiber)
DGD Accuracy ⁽³⁾	± (0.1ps+3% of DGD)
Wavelength Scanning Time	<100ms
Measurement Time	2-10s (depending on PMD value)
General Specifications	
Operating Temperature	0°C - 40°C
Storage Temperature	-20°C - 60°C
Relative Humidity	0-90% (non-condensing)
Power Supply	Li-Ion Rechargeable Battery / AC Adaptor
Battery Life	(Continuous operation) PMD Analyser: ≥5hrs; Source: ≥7hrs
Weight	PMD Analyser: 3.1kg; Source: 1kg
Dimensions (HxWxT)	PMD Analyser: 320x240x90mm; Source: 170x170x55mm

Note: (1) For standard SMF, with strong mode coupling, length≥100m;

(2) For standard SMF, with strong mode coupling, length≥100m, with single standard PMD emulator;

(3) For HiBi fiber, with weak mode coupling.

* Specifications subject to change without notice.

