DMOptics

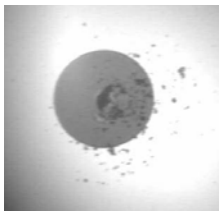
TEST EQUIPMENT SPECIALISTS

MTP-1000 Multifunctional Test Platform

MTP-1000 is a compact modular platform with up to 3 functional modules, which is specially designed for FTTx/PON applications and can meet all test requirements of installers, contractors and service operators during network installation, service activation, maintenance and troubleshooting.

Designed for Metro, Access & FTTx Networks

- Flexible wavelength configurations to meet different requirements
- FTTX in-service test (1625nm with filter)
- PON OTDR tests through splitter (≥1×64), splitter & fiber-end identifiable
- Pass-through PON Power Meter simultaneously measures Triple-play PON signals (1310/1490/1550nm)
- Visible Fault Locator fast locates defective connectors, faults in macrobends, patch cords and patch cord panels
- Remote control via PC
- Optical Connector Inspector checks connector & fiber termination for polish quality & cleanliness



Optimized Platform Performance

- Lightweight
- 8.4 inch touch screen
- Excellent Man-Machine interface for easy operation
- Damp-dust-shock proof
- Knob and touchpen combination: Fast and easy handling
- Optimized power management: 7 hours continuous operation
- Fast power up with Windows CE

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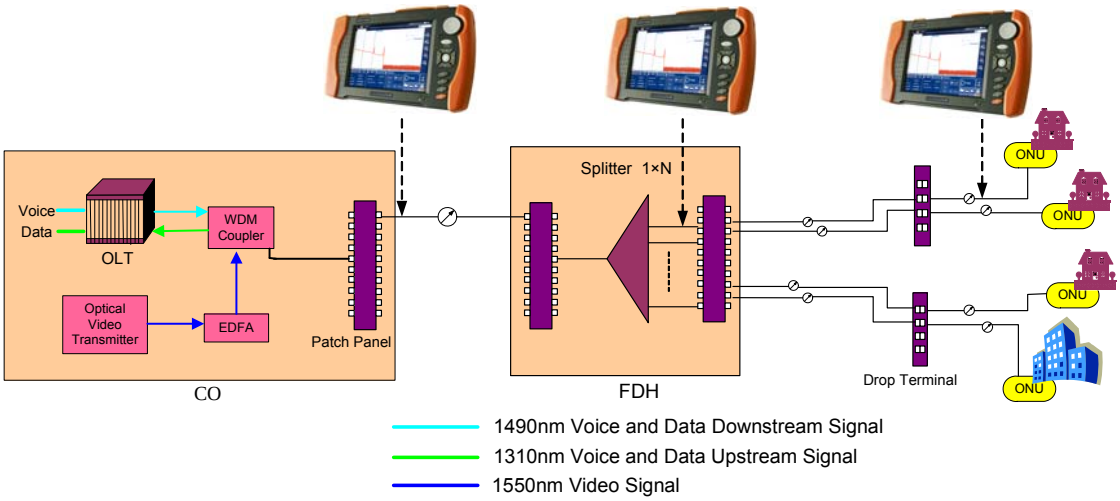
Flexible Test in PON Architecture

MTP-1000 can perform real-time test anywhere in the network for FTTx/PON installation, activation and maintenance.



OTDR Module

- Multiple modules available for flexible configuration
- FTTx applicable
- Value-added Visible Fault Locator
- GR-196-CORE compliant

TraceManager Software

- Multi traces comparison
- Single/multi trace printing
- Batch editing and printing
- Bidirectional testing

General Loss Tester Module

- Simultaneous Triple-play PON signals measurement (1310/1490/1550nm)
- Burst mode 1310nm upstream signal detection & measurement
- Dual-port pass-through design
- 1310/1490/1550/1625nm Quad-wavelength Stabilized Laser Source
- 850/1300/1310/1490/1550/1625nm CAL wavelength Optical Power Meter

OCI Optical Connector Inspector Module

- Focusing knob for fast focus
- Eye-safe and clear video viewing
- Interchangeable connector tips

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Specifications

Platform				
Display	8.4 inch TFT Touch Screen (800×600)			
Connectivity	USB×2; 10/100Mbit/s RJ-45×1			
Memory	2GB			
Power Supply	Li-Ion Battery/AC Adapter			
Battery Life	7 hours continuous operation			
Weight	2.1kg (Platform only)			
Dimensions (H×W×T)	320×190×70mm (Platform only)			
OTDR Module	**Wavelength (±20nm)**	**Dynamic Range (dB)**	**EDZ(m)**	**ADZ(m)**
MOT200-20VD	1310/1550	45/43	1.5	10
MOT200-30VC	1310/1490/1550	38/37/37	1.5	12
MOT200-31VC	1310/1550/1625	38/37/37	1.5	12
MOT200-32VC	1310/1383/1550	38/37/37	1.5	12
MOT200-40VC	850/1300/1310/1550	18/22/38/37	7/1.5	20/12
MOT200-41VC	1310/1490/1550/1625	38/37/37/37	1.5	12
Emitter Type	LD			
Connector	FC/PC (Interchangeable SC, ST)			
Distance Measure Accuracy	±(1m + 5×10^{-5}×distance + sampling space)			
Pulse Width (4)	12ns,30ns,100ns,275ns,1μs@850nm; 12ns,30ns,100ns,275ns,1μs,2.5μs@1300nm; 5ns,10ns,,30ns,100ns,300ns,1μs,2.5μs,10μs,20μs@others			
Attenuation Detect Accuracy	±0.05 dB/dB			
Reflection Detect Accuracy	±4 dB			
Visible Laser Source	Output Power ≥ -3dBm; MOD Frequency: 1Hz; Detecting Range: 5Km			
MCI100 Optical Connector Inspector Module				
Field of View	400μm×300μm			
Resolution	≤1.5μm			
Focusing	Manual Focus			
Hand Probe Dimensions	Ø32×175mm			
MPN200 General Loss Tester Module: PON Power Meter				
CAL Wavelengths	1310	1490	1550	
Measurement Range	-40 ~ +10dBm (1)	-40 ~ +12dBm	-40 ~ +20dBm	
Spectral Passband	1310±20nm	1490±10nm	1550±10nm	
Power Uncertainty	≤ 0.5dB			
Display Resolution	0.01dB			

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Insertion Loss	≤ 1.5dB	
MPN200 General Loss Tester Module: Stabilized Laser Source		
Wavelength	1310,1490,1550,1625nm (±20nm)	
Emitter Type	FP-LD@1310,1490,1550nm; DFB-LD@1625nm	
Output Mode	CW, 270Hz,1KHz,2KHz	
Spectrum Width	≤5nm	
Output Power	≥ -7dBm	
Power Stability	±0.05dB/15min; ±0.10dB/8hr	
Connector	FC/PC (Interchangeable SC, ST)	
MPN200 General Loss Tester Module: Optical Power Meter		
CAL Wavelength	850,1300,1310,1490,1550,1625nm	
Power Range (dBm)	-70~+10(2)	-50~+27
Accuracy	±5%±0.01nW (±0.5dB@850nm)	±5%±1nW (±0.5dB@850nm)
Detector Type	InGaAs	
MOD Identification	270,1K,2K Hz	
Resolution	0.01dB	
Connector	FC (Interchangeable SC, ST)	

Notes: (1) Burst mode measurement range at 1310 nm: -30 ~ +10dBm;

(2) For 850nm, the lower limit of measurement range is -60 dBm.

* Specifications subject to change without notice

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