

# 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 (1x64), splitter & fibre 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
- Optical Connector Inspector checks connector and fibre termination for polish quality and cleanliness

### 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

### Optimized Platform Performance

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

### General Loss Tester Module

- Simultaneous Triple-play PON signals measurement
- 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

### Optical Connector Inspector Module

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



# Specifications

Platform					MPN200 General Loss Tester: Optical Power Meter	
Display	8.4 inch TFT Touch Screen (800x600)				Wavelength (±20nm)	1310, 1490, 1550, 1625nm
Connectivity	USB x 2; 10/100Mbit/s RJ-45 x 1				Emitter Type	FP-LD@1310, 1490, 1550nm; DFB-LD@1625nm
Memory	2GB				Output Mode	CW, 270Hz, 1KHz, 2KHz
Power Supply	Li-ion Battery/AC Adapter				Spectrum Width	≤ 5nm
Battery Life	7 hours continuous operation				Output Power	≤ -7dBm
Weight	2.1kg (Platform only)				Power Stability	±0.05dB/15min; ±0.10dB/8hr
Dimensions (HxWxT)	320 x 190 x 70mm (Platform only)				Connector	FC/PC (Interchangeable SC, ST)
OTDR Module	Wavelength (±20nm)	DR (dB)	EDZ (m)	ADZ (m)	MPN200 General Loss Tester: Optical Power Meter	
MOT200-20VD	1310/1550	45/43	1.5	10	CAL Wavelength	850, 1300, 1310, 1490, 1550, 1625nm
MOT200-30VC	1310/1490/1550	38/37/37	1.5	12	Power Range (dBm)	-70~+10 <sup>(2)</sup> or -50~+27
MOT200-31VC (IN-SERVICE)	1310/1550/1625	38/37/37	1.5	12	Accuracy	±0.25 dB (5%) @25°C & - 10dBm; ±0.5 dB@850nm
MOT200-32VC	1310/1383/1550	38/37/37	1.5	12	Detector Type	InGaAs
MOT200-40VC	850/1300/1310/1550	18/22/38/37	7/1.5	20/12	MOD Identification	270, 1K, 2K Hz
MOT200-41VC (IN-SERVICE)	1310/1490/1550/1625	38/37/37/37	1.5	12	Resolution	0.01dB
Emitter Type	LD				Connector	FC (Interchangeable SC, ST)
Connector	FC/PC (Interchangeable SC, ST)				MPN100 Optical Connector Inspector Module	
Distance Measure Accuracy	± (1m + 5 x 10 <sup>-5</sup> x distance + sampling space)				Field of View	400µm x 300µm
Attenuation Detect Accuracy	± 0.05dB/dB				Resolution	≤ 1.5µm
Reflection Detect Accuracy	± 4dB				Focusing	Manual Focus
MPN200 General Loss Tester: PON Power Meter					Hand Probe Dimensions	ø32 x 175mm
CAL Wavelengths	1310	1490	1550			
Measurements Range	± 10~ -40dBm <sup>(1)</sup>	± 12~ -40dBm <sup>(1)</sup>	± 25~ -40dBm <sup>(1)</sup>			
Spectral Passband	1310 ± 20nm	1490 ± 10nm	1550 ± 10nm			
Power Uncertainty	≤ 0.5dB					
Display Resolution	0.01dB					
Insertion Loss	≤ 1.5dB					

**NOTE** (1) Burst mode measurement range at 1310nm: -30 to +10dBm;  
(2) For 850nm, the lower limit of measurement range is -60dBm.

\* Specifications subject to change without notice