

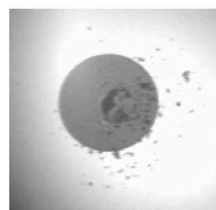
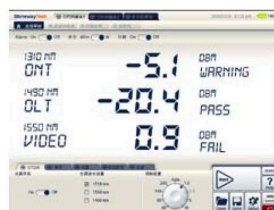
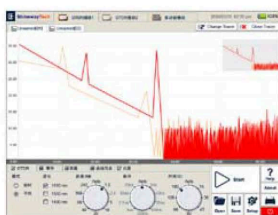
AD1000 Multifunctional Test Platform



AD1000 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

- ◆ All-in-one: OTDR, VFL, PON Power Meter, Optical Power Meter, Stabilized Laser Source, Optical Connector Inspector
- ◆ OTDR module: Flexible wavelength configurations (Double/Triple/Quad, SM/MM)
- ◆ 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/local control by PC
- ◆ Optical Connector Inspector checks connector & fiber termination for polish quality & cleanliness

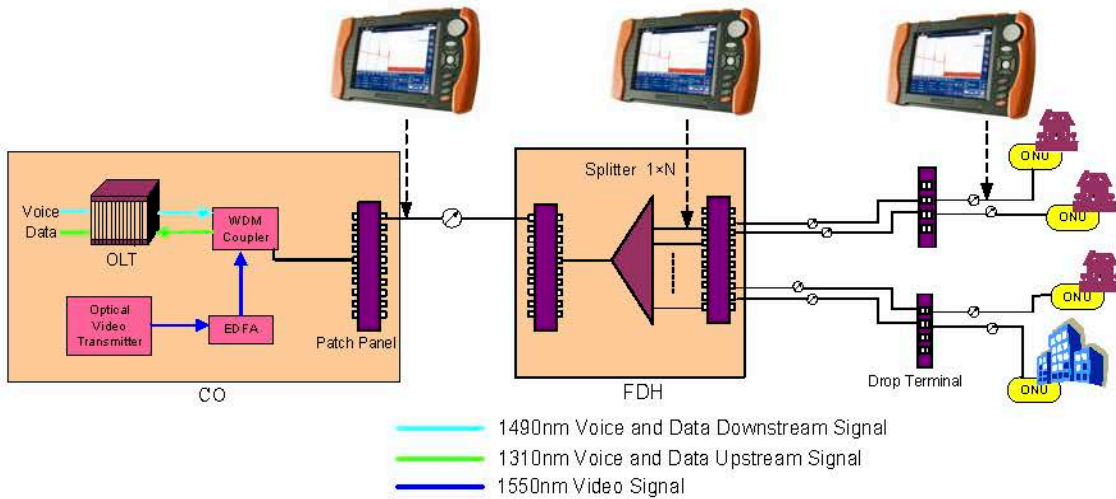


Optimized Platform Performance

- ◆ 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
- ◆ Direct printing (compatible with PCL printers)

Flexible Test in PON Architecture

AD1000 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
- ◆ GR-196-CORE (.SOR) file format
- ◆ JPG file format
- ◆ PON OTDR test through splitter (1:64), splitter & fiber-end identifiable
- ◆ Multi-wavelength test
- ◆ Auto/Manual test
- ◆ File Naming Template

OCI Optical Connector Inspector

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

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
- ◆ 850/1300/1310/1490/1550/1625/1650nm CAL wavelength Optical Power Meter

MTPSuite Software

- ◆ Multi traces comparison
- ◆ Single/multi trace printing
- ◆ Batch editing and printing
- ◆ Bidirectional testing
- ◆ CSV/ASCII report formats

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)
AD1000-20VD	1310/1550	45/43	1.5	8/10
AD1000-30VC	1310/1490/1550	38/37/37	1.5	12
AD1000-31VC	1310/1550/1625	38/37/37	1.5	12
AD1000-32VC	1310/1383/1550	38/37/37	1.5	12
AD1000-33VC	1310/1550/1650	38/37/37	1.5	12
AD1000-40VC	850/1300/1310/1550	22/30/38/36	1.5	8/8/10/12
AD1000-41VC	1310/1490/1550/1625	38/37/36/36	1.5	12
Selectable Range	SM: 1.3, 2.5, 5, 10, 20, 40, 80, 160, 240Km MM: 1.3, 2.5, 5, 10, 20, 40Km			
Pulse Width	SM: 5ns, 10ns, 30ns, 100ns, 300ns, 1μs, 2.5μs, 10μs, 20μs MM: 5ns, 10ns, 30ns, 1μs, 2.5μs			
Averaging Time	Quick, 15s, 30s, 45s, 60s, 90s, 120s, 180s			
Emitter Type	LD			
Connector	FC/PC (Interchangeable SC, ST)			
Distance Measure Accuracy	$\pm(1m + 10^{-5} \times \text{distance} + \text{sampling space})$			
Attenuation Detect Accuracy	±0.05 dB/dB			
Reflection Detect Accuracy	±4 dB			
Visible Laser Source	Output Power ≥ -3dBm; MOD Frequency: 1Hz; Detecting Range: 5Km			
PM1000 Built-in OPM for OTDR Modules (OPTION)				
CAL Wavelength	850, 1300, 1310, 1490, 1550, 1625, 1650nm			
Power Range (dBm)	-70~+10 (-60~+10@850nm)			
MCI1000 Optical Connector Inspector Module (OPTION)				
Field of View	400μm×300μm			
Resolution	≤1.5μm			
Focusing	Manual Focus			
Hand Probe Dimensions	Ø32×175mm			
PON1000 General Loss Tester Module: PON Power Meter (OPTION)				

CAL Wavelengths	1310	1490	1550
Measurement Range	-40 ~ +10dBm ⁽¹⁾	-40 ~ +12dBm	-40 ~ +20dBm
Spectral Passband	1310±50nm	1490±15nm	1550±10nm
Power Uncertainty	≤ 0.5dB		
Display Resolution	0.01dB		
Insertion Loss	≤ 1.5dB		
GLS1000 General Loss Tester Module: Stabilized Laser Source (OPTION)			
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	≥ -3dBm		
Power Stability	±0.05dB/15min; ±0.10dB/8hr		
Connector	FC/PC (Interchangeable SC, ST)		
GLS1000 General Loss Tester Module: Optical Power Meter			
CAL Wavelength	850,1300,1310,1490,1550,1625, 1650nm		
Power Range (dBm)	-70~+10 (-60~+10@850nm)	-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;

* Specifications subject to change without notice

AD INSTRUMENTS.

Add: Cra. Fuencarral 24, Edif. Europa 1, Floor 1, 1 ,
28108 Alcobendas, Madrid, Spain

Tel: +34-91-6613037

Fax: +34-91-6614917

Email: info@adinstruments.es

Web: www.adinstruments.es