2000PON SERIES

PON OPTICAL TIME DOMAIN REFLECTOMETER

Test Through 1:64 Splitter | **7" Full Touch Screen** | **9-in-1 PON Tester** | **Live PON Test**

DESCRIPTION

Purpose-built for FTTH/PON network maintenance: the 2000PON eliminates the need to remove splitters during testing — it tests straight through 1:64 PLC splitters to locate faults without interrupting customer service. This PON-specific OTDR features a 7-inch full capacitive touchscreen (no physical buttons) and 9 integrated test functions, so technicians carry one tool for all PON troubleshooting jobs.

It supports live PON testing with filtered 1625/1650nm wavelengths, 0.8m ultra-short dead zone for accurate short patch cord testing, and includes Ethernet test (Ping/PPPoE), mobile APP remote control, and power bank charging for all-day field use. With 256k sampling points and SOR format report export, it is the dedicated all-in-one tool for PON network construction, acceptance, and daily maintenance.



APPLICATIONS

- FTTH/PON live network maintenance
- 1:64 PLC splitter port testing
- Access network construction & acceptance
- Fiber fault location without service interruption
- Central office / ODN routine inspection
- Short patch cord & jumper verification
- Ethernet link / PPPoE test
- Customer premise service troubleshooting

FEATURES

- Tests through 1:64 PLC splitters, no need to remove splitters
- Live PON test with 1625/1650nm filtered wavelength
- 0.8m event dead zone, accurate for short patch cords
- 7" full capacitive touchscreen, no physical buttons
- 9-in-1 integration: OTDR/OPM/OLS/VFL/event map/Ethernet
- Mobile APP remote control & test result share
- RJ45 Ethernet port, supports Ping/PPPoE dial test
- 10400mAh large battery, supports fast charge & power bank
- 256k sampling points, 1.5cm high resolution
- SOR format, PC software batch report processing
- Active APD protection for live fiber detection
- Supports SM/MM/SM+MM fiber types

OTDR	Power Meter	Light Source	VFL	Event Map	Ethernet
PON Fault Test	Optical Power Check	Link Loss Test	Visual Break Location	Icon-based Fault Guide	Ping/PPPoE Test

Quick Selection Guide: Standard 1625nm PON live test choose B38; 1650nm long-haul PON choose C38; triple-wavelength 1310/1550/1625 choose AB38/40/42; triple-wavelength with 1650nm filter choose AC38.

ORDERING INFORMATION

Model	Wavelength (nm)	Dynamic Range (dB)	Filter Type	Dead Zone (m)
2000PON-B38	1625	38	High pass >1595nm, isolation >40dB	0.8/4/30
2000PON-C38	1650	38	Band pass 1650±7nm, isolation >40dB	0.8/4/30
2000PON-AB38	1310/1550/1625	38/36/36	High pass >1595nm, isolation >40dB	0.8/4/30
2000PON-AB40	1310/1550/1625	40/38/38	High pass >1595nm, isolation >40dB	0.8/4/30
2000PON-AB42	1310/1550/1625	42/40/40	High pass >1595nm, isolation >40dB	0.8/4/30
2000PON-AC38	1310/1550/1650	38/36/36	Band pass 1650±7nm, isolation >40dB	0.8/4/30

Note: All models support live PON testing without interrupting service. Standard accessories include main unit, power adapter, USB cable, FC/SC adapters, carry case, user manual and calibration certificate. Custom wavelength and multi-mode models available on request.

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TECHNICAL SPECIFICATIONS

OTDR Module	
Pulse Width	3ns ~ 20μs (16 steps)
Distance Range	100m ~ 260km
Sampling Points	Max 256,000 points
Sampling Resolution	Min 1.5cm
Distance Accuracy	±(0.75m + sampling interval + 0.0025%×distance)
Loss Accuracy	±0.03dB/dB
Reflectance Accuracy	±2dB
PON Dead Zone	30m (through 1:64 splitter)
File Format	Standard SOR (Telcordia SR-4731)
Laser Safety	Class II, active APD protection

OPM & OLS Module	
OPM Wavelength	800~1700nm, 8 calibrated wavelengths
OPM Range	Type A: -70~+6dBm; Type B: -50~+26dBm
OPM Accuracy	±5%
OLS Output Power	≥-5dBm, ±0.5dB accuracy
OLS Modulation	CW / 270Hz / 1kHz / 2kHz
VFL & Other Functions	
VFL Wavelength	650nm, 10mW Class 3B
VFL Range	Up to 12km, CW/1Hz/2Hz
Ethernet	RJ45 10/100M, Ping/PPPoE test
Remote Control	Mobile APP via WiFi, result share

General Specifications	
Display	7" 800×480 capacitive touchscreen, full touch operation
Battery	3.7V/10400mAh Li-ion, supports power bank charging
Charging	Fast charge support, 5V/3A, 9V/2A, 12V/1.5A
Storage	2GB internal (20,000 traces), supports 64GB USB
Interface	USB-A, Type-C, RJ45 10/100M, FC/SC/ST universal optical port
Language	English, Spanish, French, Portuguese, etc.

Environment & Physical	
Operating Temp	-10°C ~ +50°C, ≤95% RH non-condensing
Storage Temp	-20°C ~ +70°C, ≤95% RH non-condensing
Dimensions	215 × 160 × 50 mm
Weight	1.2kg (with battery)
Standard Accessories	Main unit, power adapter, USB cable, FC/SC adapters, carry strap, carry case, user manual, calibration certificate
Optional Accessories	ST/LC adapters, bare fiber adapter, fiber inspection probe, launch cable
Certification	CE, RoHS, laser safety IEC 60825

Notes: 1. Dynamic range measured at max pulse width, 3min averaging, SNR=1. 2. Event dead zone measured at 3ns pulse; PON dead zone measured through 1:64 splitter. 3. Filtered models support live PON testing without interrupting customer service. 4. Custom models and functions available on request.