PON OTDR

PON OTDR With OPM VFL

PON OTDR

Variants

OTDR 22db

Details

PON Single-Mode 1625nm OTDR with VFL & Optical Power Meter

The **D-TECH PON Single-Mode 1625nm OTDR** is a compact, cost-effective optical fiber testing instrument specifically designed for **FTTH, GPON, EPON, and PON network maintenance**. Operating at a dedicated **1625nm wavelength**, it performs accurate online fiber testing without interrupting live network traffic, making it ideal for troubleshooting active optical networks.

The unit integrates an **Optical Time Domain Reflectometer (OTDR)**, **Visual Fault Locator (VFL)**, and **Optical Power Meter (OPM)** into one portable device. It quickly detects fiber breaks, bends, splice loss, connector reflections, and attenuation events while providing simple operation, lightweight portability, and long battery life for field engineers.

Quick Specifications

OTDR Wavelength
1625 nm

Dynamic Range
40 / 35 dB

Integrated Functions
OTDR + VFL + OPM

Display
2.8" TFT LCD

Key Features

- Single-mode 1625nm OTDR optimized for FTTH & PON networks
- Online testing without interrupting live optical signals
- Accurate detection of fiber breaks and bending points
- Measures splice loss, attenuation and reflection events
- Clear distinction between loss and reflection events
- Integrated Optical Power Meter (OPM)
- Built-in Visual Fault Locator (VFL)
- Supports up to 1:64 splitter testing
- Stores up to 100 test records
- Simple operation without complicated configuration

Compact lightweight design (~450 g)

Powered by AA batteries, rechargeable battery or USB

Technical Specifications

Parameter	Specification
Model Number	TTWH1625 / TWH-6118
OTDR Wavelength	1625 nm (Single-Mode)
Dynamic Range	40 dB / 35 dB
Splitter Support	1:64 / 1:32
Test Dead Zone	? 3 m
Reflective Dead Zone	? 10 m
Attenuation Dead Zone	30 m
Distance Resolution	1 m
Pulse Width	10 ns – 500 ns
Distance Accuracy	±(0.8 m + 0.01% × Distance ± Resolution)
Loss Threshold	> 0.8 dB
Loss Resolution	0.1 dB
Connector	FC/PC or SC/PC
OPM Wavelength	850 / 1300 / 1310 / 1490 / 1550 / 1625 nm
OPM Measurement Range	-70 ~ +8 dBm or -50 ~ +26 dBm

Parameter	Specification
VFL Output	10 mW / 20 mW
Storage Capacity	100 Test Groups
Display	2.8-inch TFT Color Screen
Communication Port	Mini USB
Power Supply	AA Batteries / Rechargeable Battery / USB Power
Battery Life	Standby > 15 Hours Testing > 8 Hours
Operating Temperature	-10°C to +50°C
Storage Temperature	-20°C to +60°C
Dimensions	210 × 120 × 55 mm
Weight	Approximately 450 g

Applications

FTTH & GPON Networks

Designed for installation, maintenance, and troubleshooting of FTTH and PON optical networks.

Live Fiber Testing

Performs online testing at 1625nm without interrupting active communication services.

Fiber Maintenance

Quickly locates fiber breaks, macro bends, connector faults, and splice loss.

ISP & Telecom

Suitable for broadband providers, telecom operators, CATV systems, and enterprise fiber networks.

Testing Recommendation

Use the dedicated **1625nm wavelength** for online testing of live PON networks without interrupting service. Clean all optical connectors before testing to ensure accurate OTDR traces and power measurements. Utilize the integrated **VFL** for quick visual fault identification and the built-in **Optical Power Meter** to verify signal levels before and after maintenance activities.

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