

PON OTDR

PON OTDR With OPM VFL

PON OTDR

Variants

OTDR 22db

Details

PON Single-Mode 1625nm OTDR with VFL & OPM

The D-TECH PON Single-Mode 1625nm OTDR is a cost-effective and user-friendly testing device designed specifically for FTTH network environments. It focuses on a single 1625nm wavelength, allowing efficient and accurate fiber testing while reducing the complexity and cost associated with multi-wavelength OTDR systems.

This OTDR enables non-intrusive online testing without interrupting live optical signals, making it ideal for maintenance and troubleshooting in active fiber networks. With built-in VFL and Optical Power Meter (OPM), it provides a complete solution for fiber inspection, fault location, and signal verification.

Key Features

Supports single-mode 1625nm wavelength testing optimized for FTTH networks

Non-intrusive online testing without interrupting optical signal transmission

Accurate fault location for fiber breaks, bends, and connection issues

Fast detection of loss, reflection events, and macro bending

Clear distinction between attenuation events and reflection events

Built-in storage for test results and data records

Integrated VFL and OPM functions for complete fiber testing

Simple operation with no complex configuration required

Compact and lightweight design (approximately 450g)

Flexible power options including AA batteries and USB supply

Technical Parameters

Parameter	Specification
Model Number	TTWH1625 / TWH-6118
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	$\pm(0.8 \text{ m} + 0.01\% \times \text{distance} \pm \text{resolution})$
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 Range	-70 ~ +8 dBm or -50 ~ +26 dBm

Parameter	Specification
VFL Output	10 mW / 20 mW
Storage	100 Groups
Display	2.8" TFT Color Screen
Port	Mini USB
Power Supply	AA Battery / Rechargeable / USB
Working Time	Standby >15 hrs / Test >8 hrs
Operating Temperature	-10°C to +50°C
Storage Temperature	-20°C to +60°C
Dimensions	210 × 120 × 55 mm
Weight	~450 g