![TFN logo]

TFN Three-in-One Fiber Optic Tester (OPM+VFL+LED Light)

Model Name:
V10T: OPM + 10KM VFL + LED Light
V20T: OPM + 20KM VFL + LED Light
V30T: OPM + 30KM VFL + LED Light

Combining a visual fault locator, optical power meter, and LED white light into one device, it offers an efficient and portable solution for fiber optic network installation, maintenance, and troubleshooting.

Core Features

●   Three-in-One Smart Design

Optical Power Meter: Precisely measures fiber optic signal strength with one-touch switching between ten wavelengths

Visual Fault Locator: Powerful red light output with a maximum range of 30 kilometers for rapid fiber fault detection

LED White Light: High-brightness illumination for effortless cable inspection in dark environments, ensuring uninterrupted construction

●   Dual Display Range

C Series Display: -50 to +26 dBm

T Series Display: -70 to +6 dBm

Adapt to diverse testing scenarios with clear, at-a-glance readings

●   High-capacity lithium battery + Type-C charging

2600mAh lithium battery for extended runtime

Type-C port, reversible plugging for convenient charging

Up to 260 hours of operation in power meter mode (with backlight off)

●   Rugged and portable, ready to use anytime

Dimensions: 25mm ✕ 170mm, Weight: 125g, Fits in one hand

Withstands 1-meter drops, suitable for diverse construction environments

Core Selling Points (Addressing Customer Pain Points)

1. Too many tools, inconvenient to carry－Three-in-one integrated design replaces multiple devices with one lightweight, portable unit

2. Difficult construction in dark environments—High-brightness LED white light illuminates work areas, boosting efficiency

3. Weak red signal, limited range—Delivers up to 30mW red light output for fault detection up to 30km

4. Battery anxiety and frequent charging --- 2600mAh large battery + Type-C fast charging for worry-free endurance

5. Complex operation with steep learning curve—One-touch wavelength switching and dual display modes for instant usability

Product Specifications Overview

Optical Power Meter

- Detector Type: InGaAs
- Response Wavelength: 700nm ~ 1700nm
- Calibration Wavelengths: 850/980/1270/1300/1310/1490/1550/1577/1625/1650nm
- Display Accuracy: 0.01 dBm
- Optical Interface: 2.5mm Universal Connector

Visual Fault Locator

- Output Power: 10mW / 20mW / 30mW (selectable)
- Wavelength: 650 ± 20nm
- Operation Mode: Steady-on / 2Hz Flashing

General Specifications

- Battery: 2600mAh Lithium-ion Battery
- Charging Port: Type-C
- Usage Time: Approx. 6 hours (Combined Mode), 260 hours (Power Meter Mode Only)
- Operating Temperature: 0° C ~ 50° C
- Dimensions: 25mm × 170mm
- Weight: 125g

Target Audience and Scenarios

1. Fiber-to-the-Home (FTTH) installation and maintenance personnel
2. Data center operations and maintenance engineers
3. Field technicians for telecommunications projects
4. Network troubleshooting teams
5. Laboratories and educational institutions

Why Choose the 3-in-1 Fiber Optic Tester?

- Comprehensive Functionality: Integrates three essential functions into one device, saving time and effort
- Precision and Reliability: Supports 10 wavelengths with accuracy up to 0.01dBm
- Extended Battery Life: 2600mAh battery + Type-C charging eliminates power anxiety
- Rugged and Portable: Drop-resistant design, lightweight and easy to carry for on-the-go use
- Simple Operation: One-button switching and dual display modes ensure quick mastery even for beginners.