



ATO-OTDR-FC290 Smart Handheld OTDR

Smart OTDR

OTDR/ OPM/ OLS/ VFL

Touch Screen



The image shows a handheld device with a touch screen displaying a menu with icons for OTDR, Visual Fault Locator, Optical Power Meter, and Light Source. Below the screen is a keypad with function keys (F1-F4), OFF, ESC, OK, and a numeric keypad. The device has four ports at the top labeled VFL, OPM, OLS, and OTDR.

| | |
|---|--|
|  OTDR: 0-60KM |  VFL: 10mw |
|  OPM: 850/1300/1310/ 1490/1550/1625nm |  OLS: 1310/1550nm |

Functions:

1. OTDR: 1310/1550nm, 22/20dB, 0-60km
2. Optical Power Meter: -70~+10dbm or -50~+26dbm
3. Visual Fault Locator: $\geq 10\text{mw}$
4. Optical Light Source: 1310/1550nm, $> -5\text{dBm}$

Description

ATO-OTDR-FC290 Smart handheld OTDR is portable fiber fault locator, it is quickly to detect fault location and type of optical fiber using OTDR element and stronger software analysis tool.

Main Features

- Lightweight, portable, cost-effective.
- one key operation, legible test data.
- Integrated with visual fault locator system, it is easily to detect fault location of dead zone.
- Use the rubber Key, good dustproof, waterproof, quakeproof ability, suitable for field maintenance work.
- Use big capacity battery, long working time, suitable for long time field working.
- Suitable for engineer construction and maintenance fault location of FTTx and access network.

Specifications

1. OTDR

| | |
|--------------------------------------|---|
| Type | TM290 |
| Wavelength | 1310/1550nm |
| Dynamic Range | 22/20dB |
| Measure distances | 0-60km |
| Fiber type | SM |
| Type of Fiber | 9/125um Single-mode optical fiber |
| Type of Connectors | FC/PC/ (FC/APC Connector can be customized) |
| Peak Value of laser | $\geq 30\text{mW}$ |
| UOM of Measurement | Meter, Feet, Mile |
| Dead Zone of Reflection Event | 2m |
| Dead Zone of attenuation Event | 12m |
| Accuracy Distance (Reflection Event) | About $\pm (1\text{m} + 2 \times 10^{-4} \times \text{distance})$ |
| Number of test records saved | 200 |
| Power Supply | 7.4V Li-ion Battery 4400mAH |
| Battery working time | $\geq 5,000$ times of measurements |
| Temperature | Operate: $-5 \sim 50$, Store: $-10 \sim 60$ |
| Humidity | 0~85% (Non-condensing) |
| Weight(g) | 300 |

2. Visual Fault Locator

| | |
|------------------|--------------------|
| Wavelength | 650nm |
| VFL Output Power | $\geq 10\text{mW}$ |
| Mode | CW, 1Hz, 2Hz |
| Fiber type | SM/MM |

3. Optical Power Meter

| | | |
|-----------------------|---|-------------|
| Measurement range dBm | -70~+10 dBm | -50~+26 dBm |
| Wavelength range (nm) | 800~1650 | |
| Calibrated wavelength | 850nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm (other wavelength will be on request) | |
| Detector | InGaAs | |
| Accuracy | $\pm 3\%$ (-10dBm, 22°C) | |
| Resolution | Linearity: 0.1%, Non-linearity: 0.01dBm | |
| connector | Changeable FC/PC SC/PC, (ST as Optional) | |



4. Optical Light Source

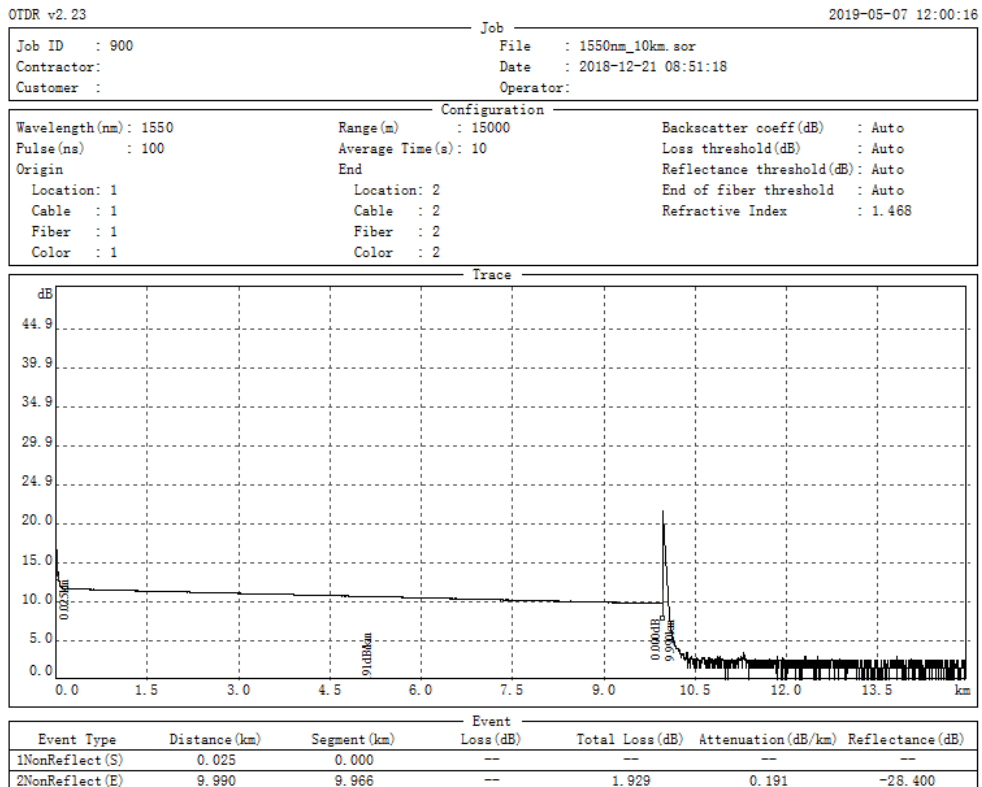
| | |
|-----------------------|---------------------------|
| Emitter | FP-LD |
| wavelength (nm) | 1310/1550nm |
| Connector | FC/PC (SC/ST as optional) |
| Output power | ≥ -5 dBm |
| Output stability(dBm) | ± 0.04 @20°C @15min |
| Modulation | CW/270Hz/1KHz/2KHz |
| Fiber type | SM |

5. Software



The software can open, print preview, and print curves through files. Through the report wizard, you can set to print multiple test curves per page. The test report is shown as below:

OTDR REPORT



Packing Information:

| NO | Name | Qty |
|-----------------------------|-------------------------------|----------|
| Standard accessories | | |
| 1 | OTDR with FC/UPC connector | 1 |
| 2 | AC/DC Charger | 1 |
| 3 | CD (software and user manual) | 1 |
| 4 | Test Report | 1 |
| 5 | Softcase | 1 |
| Optional Accessories | | |
| 1 | SC connector for OTDR Port | USD6/PC |
| 2 | ST connector for OTDR Port | USD6/PC |
| 3 | SC/ST Connector for OPM port | USD5/SET |

Detailed Pictures:

