

# Mercury R.26 Optical Time Domain Reflectometer

## Product Overview

This OTDR series is a comprehensive optical testing instrument that combines OTDR analysis, event mapping, optical power measurement, visual fault location, light source, optical loss testing, cable length measurement, sequence testing, and cable tracking. It is designed to support fiber installation, maintenance, acceptance testing, and on-site fault repair.



## Performance Features

- Equipped with a high-performance CPU for fast and smooth operation
- Supports optical fiber transmission and end-fiber configuration
- OTDR curve list displayed in full-screen mode
- Supports dual-wavelength testing
- Capable of detecting and measuring macro-bending
- Multiple sampling points ensure high measurement accuracy
- Small blind zone enables reliable short-fiber testing

## OTDR



**Fiber Transmission and End-of-Fiber Configuration**

**Dual-Wavelength Testing Capability**

**Short-Distance Fiber Measurement**

# Technical Specifications

OTDR	
Model	Mercury R.26
Wavelength (±20nm)	1310/1550 nm
Dynamic Range	26/24 dB
Event Blind Zone	1.5 m
ATT Blind Zone	8m
Distance Range	0.1 / 0.3 / 0.5 / 1.25 / 2.5 / 5 / 10 / 20 / 40 / 80 / 125 / 260km
Distance Unit	km, mi, kft
Pulse Width	5 ns / 10 ns / 20 ns / 30 ns / 50 ns / 80 ns / 100 ns / 200 ns / 300 ns / 500 ns / 800 ns / 1 μs / 2 μs / 3 μs / 5 μs / 8 μs / 10 μs / 20 μs
Ranging Accuracy	±(0.75 m + Sample interval + 0.0025% × Test distance)
Loss Threshold	0.001 dB
Linearity	±0.03 dB/dB
Sample Points	≥160k
Sample Resolution	0.015–16 m
File Format	SOR Standard File Format
Loss Analysis	4-point Method
Laser Safety Level	Class II
Connector	FC/UPC (Interchangeable SC, ST, LC)
LS (Light Source)	
Wavelength	Consistent with OTDR
Output Power	≥-5 dBm
Mode	CW / 270Hz / 1kHz / 2kHz
Laser Level	Class 1M
Optical Output Port	OTDR Port
RJ45 Cable Tracker / Length	
Distance	300m
VFL (Visual Fault Locator)	
Wavelength	650 ± 20 nm
Output Power	≥10 mW
Mode	CW / 1 Hz / 2 Hz
Laser Safety Level	Class 3R
Connector	Universal Optical Interface (2.5 mm)
OPM (Optical Power Meter)	
Calibration Wavelength	850 / 980 / 1300 / 1310 / 1490 / 1550 / 1625 / 1650nm
Test Range	-50 dBm to +26 dBm
Uncertainty	±5%
LED Flashlight (Others)	
Display	TFT LCD WVGA (Multi-touch capacitive screen), Resolving Power: 800 × 480 pixels
Data Interface	Type-C, RJ45 × 2, LAN 10M/100M bit/s
Data Storage	8 GB (≥20,000 curves), File Format: SOR
Size	173 × 109 × 45 mm
Weight	≤0.5 kg

Environment	Working Temp: -10°C ~ +50°C
Conditions	Storage Temp: -40°C ~ +70°C Relative Humidity: 0-95% Non-Condensing Altitude: ≤4000 m
Power Requirements	DC USB (Type-C) 5V ± 10%, Maximum 2A
Battery Type / Capacity	Polymer Lithium-ion, 5000 mAh, Charging Time: 4 h (typical)
Safety Standards	EN61010-1
Laser Safety	IEC/EN 60825-1:2007, GB7247.1-2012
EMC	Radiation: EN61326-1 Class A Immunity: EN61326-1 Table 2