FiberMASTER
Fiber Optic Testers

Quad / PON OTDR

Quad OTDR/
PON OTDR/
Light Source Ports

Video Inspection
Probe Connector

Power Meter

Multimode / Single-mode OTDR

MM/SM OTDR/
Light Source Port

VFL port

Video Inspection
Probe Port

Power Meter

The TREND **FiberMASTER** range provides powerful performance in a small package. A simplified user interface is easy for beginners yet has full manual and custom setups for experienced users.
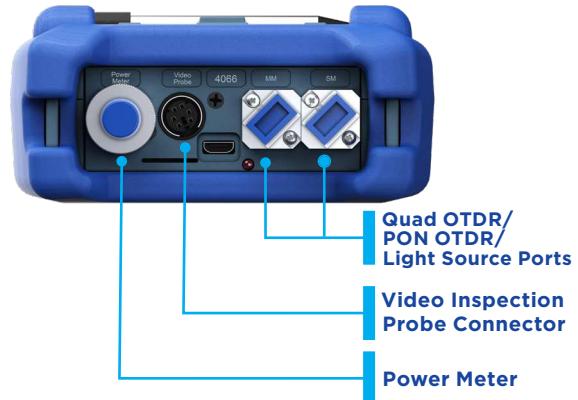
Tier 2 OTDR certification fast and accurate with instant-on, zero boot times and selections for TIA/ISO/IEEE/CENELEC standards to eliminate setup errors.

Match a light source with an OTDR to perform end-to-end testing on multimode or single-mode cable using the included power meter.
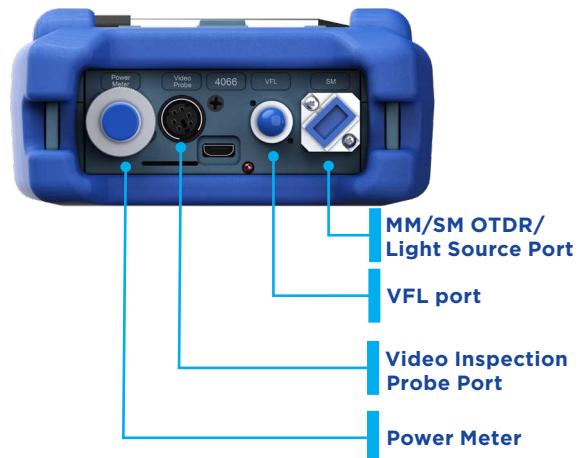
The PON OTDR features ultra-high dynamic range to measure 1:32 splitters for installation testing and troubleshooting.

Power Meter

VFL Port

Video Inspection
Probe Port

Power Meter

- **R240-QIP** Quad OTDR with Inspection port and Power meter

- **R240-MIPV** MM OTDR with Inspection port, Power meter, VFL

- **R240-SIPV** SM OTDR with Inspection port, Power meter, VFL

- **R240-PIV** PON OTDR with Inspection port and Power meter

- **R240-LSIV** Quad wavelength light source with inspection port and VFL

- **R240-PMIV** Broad wavelength power meter with inspection port and VFL

- **R240-PMLS** Power Meter & Light Source with Inspection port and VFL on each unit.

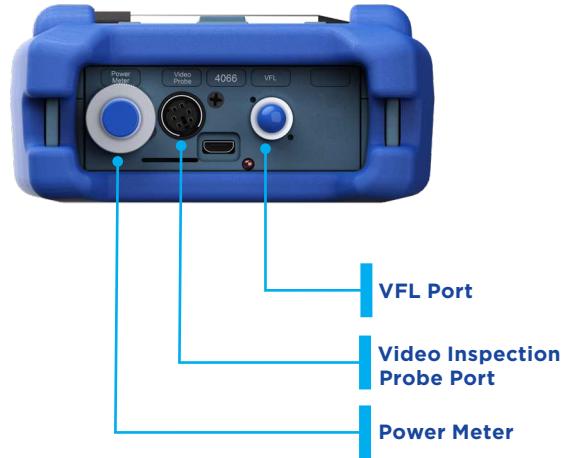- **R240-VIP** Video Inspection Probe with 150-300x magnification

FiberMASTER Specifications at 25 °C

OTDR

Safety: FDA/CDRH and IEC-825-1	Class 1		
Number of data points	Up to 128,000		
Display range	Up to 256 km		
Minimum sampling resolution	6 cm (2.36 in)		
Distance accuracy	±(0.75m + 0.005% x Distance + Sampling Resolution)		
Attenuation resolution	0.001 dB		
Attenuation linearity	± 0.03 dB/dB		
Central wavelength	850/1300 ±20 nm	1310/1550 ±20 nm	1625 ±20 nm
RMS dynamic range	29/30 dB	37/38 dB	36 dB
Pulse widths	5 ns to 1 µs	5 ns to 20 µs	5 ns to 20 µs
Event dead zone	1 m	1 m	1 m
Attenuation dead zone	5 m	5 m	5 m
Connector styles	SC/UPC (SC/APC on PON model). ST/FC optional		

Light Source

Wavelengths	**QUAD:** 850, 1300, 1310, 1550 nm. **PON:** 1310, 1550, 1625 nm
Output power	0 dBm
Modulation	CW, 270 Hz, 1000 Hz, 2000 Hz

VFL

Wavelength	650 nm ±5 nm
Connector	2.5mm universal
Output power	1 mW maximum

Power Meter

Connector styles	LC, SC, FC, ST, 2.5 mm universal, 1.25 mm universal
Dynamic range	+5 dBm to -77 dBm
Calibrated wavelengths	850, 1300, 1310, 1490, 1550, 1625 nm.
Power meter uncertainty	± 0.18 dB under reference conditions ± 0.25 dB from 0 to -65 dBm ± 0.35 dB from 0 to +5 dBm and from -65 to -77 dBm
Units of measurement	dBm, dB
Resolution	0.01 dB

General

Display	3.5-inch (8.9 cm) color resistive touchscreen
Display resolution	240 x 320
Dimensions	170 x 106 x 50 mm (6.69 x 4.17 x 1.97 in)
Weight	700 g (1.5 lbs)
Communications interfaces	Micro USB, Bluetooth
Storage	Up to 40,000 records depending on file size
Battery	30 Wh, rechargeable Lithium-polymer, up to 10 hours of operation
Power supply	Input: 100-250VAC, 50/60Hz, Output: USB 5VDC, 2A
Safety	OTDR Class I (FDA/IEC-825-1), VFL Class 2