TREND NETWORKS

FiberMASTER OTDR
SPECIFICATION SHEET

FiberMASTER
Fiber Optic Testers

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.

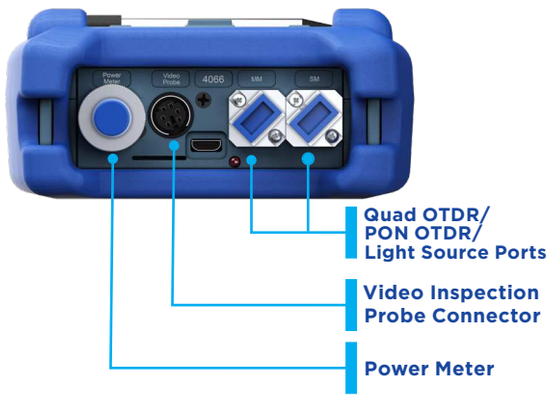
Tier 2 OTDR certification fast and accurate with instant-on, zero boot times and selections for TIA/ISO/IEEE/CENELEC standards to eliminate setup errors.

Match a light source with an OTDR to perform end-to-end testing on multimode or single-mode cable using the included power meter.

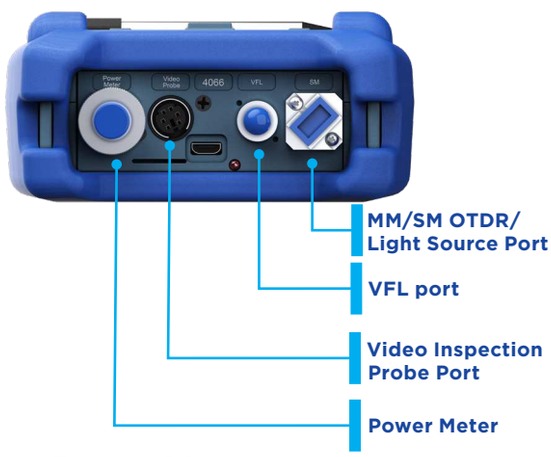
The PON OTDR features ultra-high dynamic range to measure 1:32 splitters for installation testing and troubleshooting.

- **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

Quad / PON OTDR



Multimode / Single-mode OTDR



Power Meter

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 RMS dynamic range Pulse widths Event dead zone Attenuation dead zone	850/1300 ±20 nm 29/30 dB 5 ns to 1 µs 1 m 5 m	1310/1550 ±20 nm 37/38 dB 5 ns to 20 µs 1 m 5 m	1625 ±20 nm 36 dB 5 ns to 20 µs 1 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		

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