



## KEY FEATURES :

- Integrated design, smart and rugged
- IP65 protection level, outdoor enhanced
- 7-inch Anti-Reflection LCD screen
- PON online test module (1625nm) is optional
- MMF test module (850/1350nm) is optional
- Support multi-languages display & input

## APPLICATIONS :

- FTTX Test with PON Networks
- CATV Network Testing
- Access Network Testing
- LAN Network Testing
- Metro Network Testing
- Lab and Factory Testing
- Live Fiber Troubleshooting

**Fully featured, dedicated portable OTDRs designed for your basic OTDR testing needs.**

**FIBERSHOT PRO SERIES OTDR :** Fibershot Pro Series Optical Time Domain Reflectometer (OTDR) is an intelligent new generation test and measurement equipment for the maintenance of fiber communications systems more accurately and efficiently. Fibershot Pro is a full feature OTDR specially designed for layout and maintenance of trunk lines, branches, intercity, NLD, IT networking, power/railways/highways and OS plant communication requirements. It's having outstanding performance to cost ratio. Fibershot Pro OTDR has various options and features that offer the users, total flexibility and controlled test conditions. Our stringent mechanical, electronic and optical testing and quality assurance; makes Fibershot Pro more smart and compact and multipurpose OTDR. Whether you want to detect link layer in the construction and installation of optical network or proceed efficient maintenance and troubleshooting, Fibershot Pro OTDR can be your best assistant.

## Specifications

Dimension	253x168x73mm, 1.5 kg (Battery included)
Display	7 Inch TFT-LCD with LED Backlight 800x480 TFT (Touch Screen function is optional)
Interface	1xRJ45 Port, 3xUSB Port (USB 2.0, Type A USBx 2, Type B USBx1)
Power Supply	10V(dc), 100V(ac) to 240V(ac), 50~60Hz
Battery	7.4V(dc)/4.4Ah Lithium Battery (with Air Traffic Certification) Operating Time : 12 Hours(1), Telcordia GR-196-CORE, Charging Time : <4 Hours (Power Off)
Power Saving	Backlight Off: Disable/1 to 99 minutes, Auto Shutdown: Disable/1 to 99 Minutes
Data Storage	Internal Memory : 4 GB (about 40,000 groups of curves)
Environmental Conditions	Operating Temperature and Humidity : -10°C~+50°C, < 95% (non-condensation) Storage Temperature and Humidity : -20°C~+70°C, < 95% (non-condensation),
Accessories	Proof : IP65 (IEC60259) Standard : Main Unit, Power Adaptor, Lithium Battery, FC Adapter, USB Cord, User Guide, CD Disk, Carrying Case Optional : SC/ST/LC Adapter, Bare Fiber Adapter

### VFL Module (Visual Fault Locator, as standard function):

Wavelength (±20nm)	650 nm
Power output (Typical)	0.6 mW
Emitter type	Laser
Range	12 km
Connector	FC/UPC
Launching Mode	CW/2Hz

### LS Module (Laser Source, as optional function):

Wavelength (±20nm)	1310/1550/1625nm
Output Power	Adjustable - 25~0dBm
Accuracy	±0.5dB
Connector	FC/UPC 0.01dB

# PRO OTDR SERIES



## Test Parameters

Pulse Width	Single Mode : 3ns, 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1µs, 2µs, 5µs, 10µs, 20µs Multi Mode : 3ns, 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1µs, 2µs
Testing Distance	Single Mode : 100m, 500m, 2km, 5km, 10km, 20km, 40km, 80km, 120km, 160km, 240km Multi Mode : 500m, 2km, 5km, 10km, 20km, 40km
Sampling Resolution	Minimum 4cm
Sampling Point	upto 256,000 points
Linearity	0.03dB/dB
Loss threshold (dB)	0.01
Loss resolution (dB)	0.001
Distance Resolution	0.01m
Distance Accuracy	±(1m+measuring distance×3×10 <sup>-5</sup> +sampling resolution) (excluding IOR uncertainty)
Reflectance Accuracy	Single mode; ±2dB, Multi-mode: ±4dB
IOR Setting	1.4000~1.7000, 0.0001 step
Units	Km, miles feet
OTDR Trace Format	Telcordia universal, SOR, issue 2 (SR-4731) OTDR: User selectable automatic or manual set-up
Testing Modes	Visual fault locator, Light source: Stabilized Light Source -2.5 Output, Microscope Probe
Fiber Event Analysis	Reflective and non-reflective events: 0.01 to 1.99dB (0.01dB steps) Reflective: 0.01 to 32 dB (0.01dB steps), Fiber end/break: 3 to 20dB ( 1dB steps)
Other Functions	Real time sweep: 1Hz, Averaging modes: Timed (1 to 3600 sec.), Live Fiber detect: Available on certain models Trace overlay and comparison
Connectivity	Flexible connectivity USB, Mobile
Battery LED	Battery indication LED available

## Technical Parameters

Type	Testing Wavelength (MM: ±20nm, SM:±10nm)	Dynamic Range (dB)	Event/Attenuation Dead-Zone (m)
PRO-M21	850/1300	19/21	0.8/4
PRO-MD21	850/1300      1310/1550	19/21      35/33	0.8/4      1/4
PRO-MD22	850/1300      1310/1550	19/21      40/38	0.8/4      1/4
PRO-D26	1310/1550	26/24	0.8/4
PRO-D32	1310/1550	32/30	0.8/4
PRO-D35	1310/1550	35/33	0.8/3.5
PRO-D40	1310/1550	40/38	0.8/3.5
PRO-D43	1310/1550	43/41	0.8/3.5
PRO-D45	1310/1550	45/43	0.8/3
PRO-T40F	1310/1550/1625	40/38/38	0.8/3
PRO-T43F	1310/1550/1625	43/41/41	0.8/3
PRO-T45F	1310/1550/1625	45/43/43	0.8/3
PRO-TC35F	1310/1550/1650	35/33/31	0.8/3.5
PRO-TP35	1310/1490/1550	35/33/33	0.8/3.5
PRO-Q35	1310/1490/1550/1625	35/33/33/33	0.8/4      1/4

### PM Module (Power Mode as optional function):

Wavelength (±20nm)	800~1700nm
Calibrated Wavelength	850/1300/1310/1490/1550/1625/1650nm
Test Range	Type A: -65~+10dBm (standard); Type B: -55~+26dBm (optional)
Resolution	0.01dB
Accuracy	±0.35dB±1nW
Modulation Identification	270/1k/2kHz, Pinput <sup>3</sup> -40dBm
Connector	FC/UPC

### FM Module (Fiber Microscope, as optional function):

Magnification	400X
Resolution	1.0µm
View of Field	0.40x0.31mm
Storage/working Condition	-18°C / -35°C
Dimension	235x95x30mm
Sensor	1/3 inch 2 million of pixel
Weight	150g
USB	1.1/2.0
Adapter	SC-PC-F (For SC/PC adapter) FC-PC-F (For FC/PC adapter) LC-PC-F (For LC/PC adapter) 2.5PC-M (For 2.5mm connector, SC/PC, FC/PC, ST/PC)

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