Fiber Optic Tester - Litech Optical Time Domain Reflectometer OTDR-703F





Litech Optical time domain reflectometer 703F is a new generation of portable and intelligent measuring instrument designed for testing optical fiber communication system and FTTH networks.

Features

- 7-inch TFT color LCD touch screen display
- OTDR, Event Map, OPM, OLS, VFL all in one
- External interfaces USB, MICRO-USB
- 128k data sampling points
- High ranging resolution of 0.05m
- ≤0.8m ultra-short event blind zone
- Penetrate optical splitter up to 1:8 / 1:64
- Automatic detect and alarm of incoming optical signals
- Optical output interface FC/SC/ST
- Built-in High Capacity lithium battery
- Battery operating time: > 12h

Physical Specification

Parameter	Specification
Display	7 inch TFT-LCD with LED backlight
Interface	3×USB port (USB 2.0, Type A USB×2, Type B USB×1)
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, 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: 4GB (about 40,000 groups of curves)
Language	User selectable (English, Simplified Chinese, traditional Chinese, French, Korean, Russian, Spanish and Portuguese-contact us for availability of others)
Environmental Conditions	Operating temperature and humidity: -10°C~+50°C, ≤95% (non-condensation)
	Storage temperature and humidity: -20°C~+75°C, ≤95% (non-condensation)
	Proof: IP65 (IEC60529)
Accessories	Standard: Main unit, power adapter, Lithium battery, FC adapter, USB cord, User guide, carrying case
	Optional: SC/ST/LC adapter, Bare fiber adapter
Dimension	30*27*15cm；1.8kg

• All Product Specification is protected by copyright. Specification subject to change without prior notice. •

Fiber Optic Tester - Litech Optical Time Domain Reflectometer OTDR-703F

Test Specification

Parameter	Specification
Wavelength	1310nm/1550nm±20nm
Fiber Type	G.652 SM Fiber
Dynamic Range	32dB/30dB
Event Blind Zone	1m
ATT Blind Zone	8m
Pulse Width	Single mode: 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1μs, 2μs, 5μs, 10μs, 20μs
Testing Distance	Single mode: 100m, 500m, 2km, 5km, 10km, 20km, 40km, 80km
Sampling Resolution	Minimum 5cm
Sampling Point	Maximum 128,000 points
Linearity	≤0.05dB/dB
Scale Indication	X axis: 4m~70m/div, Y axis: Minimum 0.09dB/div
Distance Resolution	0.01m
Distance Accuracy	±(1m+measuring distance×3×10-5+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: Visible red light for fiber identification and troubleshooting
	Light source: Stabilized Light Source (CW, 270Hz, 1kHz, 2kHz output)
Fiber Event Analysis	Reflective and non-reflective events: 0.01 to 1.99dB (0.01dB steps)
	Reflective: 0.01 to 32dB (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: Verifies presence communication light in optical fiber
	Trace overlay and comparison

• All Product Specification is protected by copyright. Specification subject to change without prior notice. •

Fiber Optic Tester - Litech Optical Time Domain Reflectometer OTDR-703F

Test Specification

Parameter	Specification
Visual Fault Locator Module	
Wavelength (±20nm)	650nm
Power	10mw,CLASSIII B
Range	12km
Connector	FC/UPC
Launching Mode	CW/2Hz
Power Meter Module	
Wavelength Range (±20nm)	800~1700nm
Calibrated Wavelength	850/1300/1310/1490/1550/1625/1650nm
Test Range	Type A: -65~+5dBm (standard); Type B: -40~+23dBm (optional)
Resolution	0.01dB
Accuracy	±0.35dB±1nW
Modulation Identification	270/1k/2kHz,Pinput≥-40dBm
Connector	FC/UPC
Laser Source Module	
Working Wavelength (±20nm)	1310/1550
Output Power	Adjustable -25~0dBm
Accuracy	±0.5dB
Connector	FC/UPC

Ordering Information

Part Number	Testing Wavelength	Dynamic Range (dB)
OTDR-703F	1310/1550	32/30

• All Product Specification is protected by copyright. Specification subject to change without prior notice. •