

ST-1000B

Multi-Function OTDR



Multi-Function OTDR with in-built Smart Event Mapper, Power Meter, Laser Source, Visual Fault Locator, Optical Loss Tester, RJ45 Network-Mapper RJ45 Length Tester, Laser Ranger



Features

- * 5" High-Resolution High-Visibility Display
- * Multi-Touch Capacitive Touch Panel
- * Long Power Autonomy, 15 hours Operation
- * Type-C USB Charger with Fast Charging
- * Fastest OTDR, 5 Seconds Boot Time
- * Interchangeable FC/SC/LC Connectors
- * 20000 Results Storage, USB-2.0-A Data Transfer
- * Dust, Water & Vibrations Resistant Design
- * Auto/Manual/Real-Time Measurement Modes
- * Auto/Manual Measurements Result Storage
- * Single/Dual Wavelength Fast Testing
- * Light Weight 550g, Strong Built Quality



Multi-Function Optical Time Domain Reflectometer

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OTDR	
Items	Specifications
Model	ST-1000B
Fiber Type	SM
Wavelength (nm)	1310/1550nm
Dynamic Range (dB)	32/30 dB
Event Dead Zone (m)	1m
Attenuation Dead Zone (m)	6m
Distance Range (km)	0.1, 0.3, 0.5, 1.25, 2.5, 5, 10, 20, 40, 80, 125, 260
Pulse Width (ns, us)	5ns to 20us
Distance Accuracy (m)	$\pm (0.75m + \text{Sampling Interval} + 0.0025\% \times \text{Distance Range})$
Attenuation Resolution (dB)	0.001 dB
Attenuation Linearity	$\pm 0.03 \text{ dB/dB}$
Sampling Points	Min. 160000
Sampling Resolution	0.015m~16m
Reflection Accuracy	$\pm 2 \text{ dB}$
File Format	SOR Standard File Format
Loss Measurement Mode	4 Points Method / 5 Points Method
Laser Safety Level	Class II
Data Storage	Internal Storage: 8GB (Min. 20000 Results)
Optical Connector	SC/APC (Interchangeable SC/FC/LC)
Real Time Refresh Rate	4Hz (Typical Value)
Stabilized Laser Source	
Items	Specifications
Wavelength (nm)	1310nm ± 25 / 1550nm ± 25
Optical Output Level (dBm)	0 dBm

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Output Power Stability (dB)	± 0.05 dB
Modulation Mode	CW, 270Hz, 1kHz, 2kHz
Laser Safety Level	Class 1M
Optical Output Port	OTDR Port
Optical Power Meter	
Items	Specifications
Wavelength (nm)	850, 980, 1300, 1310, 1490, 1550, 1625, 1650
Measurement Range (dBm)	-50 dBm ~ +26 dBm
Measurement Accuracy (dB)	± 0.5 dB
Optical Connector	2.5mm Universal Push-Pull
Visual Fault Locator	
Items	Specifications
Wavelength (nm)	650nm ±20
Optical Output Power	Min. 10mW
Modulation Mode	CW, 1Hz, 2Hz
Laser Class	Class 3R
Optical Connector	2.5mm Universal Push-Pull
Rj45 Network-Mapper	
Items	Specifications
Distance (m)	300 mtr
Rj45 Length Tester	
Items	Specifications
Distance (m)	300 mtr
Laser Ranger	
Items	Specifications
Distance (m)	40 mtr
LED Flashlight	Support

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General Specifications	
Items	Specifications
Display	5" Color TFT LCD WVGA Multi-touch, Resolution: 800*480 pixels
External Interfaces	USB 2.0-A, USB Type-C, RJ45*2 LAN 10M/100M bits/s
Data Storage	Internal Storage: 8GB (Min. 20000 results), File Format: SOR
Size (mm) & Weight (g)	186mm * 128mm * 56mm & 550g (Including Battery)
Power Requirements	DC USB Power Supply (Type-C) 5V ± 10%, Max. 2A
Battery	Li-po 5000mAh, 15 hours Working Time, 4 hours Charging Time
Environmental Conditions	Operating Temperature: -10°C ~ +50°C
	Storage Temperature: -40°C ~ 70°C
	Humidity: 0 ~ 95% No Condensation
	Altitude: 4000m or below
Safety Standards	EN61010-1
Laser Safety	IEC/EN 60825-1: 2007, GB7247.1-2012
EMC	Radiation Standard: EN61326-1 Class A
	Immunity: EN61326-1 Table2
Wireless	Bluetooth / Wireless LAN (Option)
Language	English



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