

WRX1000H Handheld Singlemode OTDR

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Singlemode 1310nm, 1550nm, 1610nm, 1625nm, 1650nm

The WRX1000H series handheld optical time domain reflectometer (OTDR) offers precise measurement of fiber length, splice loss, and the location of fiber faults. It features a 3.5-inch capacitive touch screen and integrates multiple functions, including OTDR, event map, OPM, LS, VFL, RJ45 sequence test, optical loss test, and flashlight. The touchscreen allows for simple and efficient operation through single parameter setting and intelligent measurement.

Key specifications of the WRX1000H include a dynamic range of 24dB or 22dB, an event dead zone of less than 2.5m, and an attenuation dead zone of less than 8.0m, ensuring accuracy and reliability in field use. With a high sampling rate of 128k, it can detect defects as small as 1 meter. It supports external USB storage, capable of storing up to 1000 test curves, and is equipped with a 4000mAh high-density lithium battery that provides up to ten hours of testing time and twenty hours of standby time with intelligent power saving management. Additionally, the filter model supports online testing with a maximum online power of -2dB.



Features

- 3.5" capacitive touch screen with zoom in/out curve functionality
- 2.5m event dead zone
- Maximum dynamic range of 24dB and a high sampling rate of 128k, enabling detection of defects as small as 1 meter.
- Supports external USB storage devices, with a capacity of up to 1000 test curves.
- Supports single mode 1310/1550nm, 1310nm, 1550nm, 1610nm, 1625nm, and 1650nm wavelengths.
- Includes OTDR, Event Map, OPM, LS, VFL, RJ45 Sequence Test, Optical Loss Test, and Flashlight.
- 4000mAh lithium battery, providing ten hours of testing.
- Ports include Type C USB interface, OTDR/LS interface, VFL interface, OPM interface, and RJ45 Line Sequence interface.
- High-resolution color LCD display for easy and accurate viewing of test results.
- Automatic analysis of results.

Ports



RJ45 Line Sequence



VFL OTDR/LS OPM



Type C USB

Specifications

WRX1000H-(X)	D	S1	S2	S3	S4	S5
Fiber Type	G.652 SM, G.657 SM					
Wavelength (nm)	1310/1550	1310	1550	1610	1625	1650
Maximum Dynamic Range (dB)	24/22dB	24dB	22dB	22dB	22dB	22dB
Event Blind Zone	<2.5m					
Attenuation Blind Zone	<8m					
Test Range	100m/500m/1km/2km/5km/10km/20km/40km/60km/80km					
Pulse Width	5ns/10ns/20ns/50ns/100ns/200ns/500ns/1 μ s/2 μ s/5 μ s/10 μ s/20 μ s					
Range Accuracy	$\pm$ (1m+sampling interval + 0.005 x Test Distance)					
Loss Accuracy	$\leq$ 0.05 db/db					
Sample Points	Maximum 64000					
Sample Resolution	25cm~8m					
Reflection Accuracy	$\pm$ 3dB					
Loss Resolution	0.001dB					
Loss Threshold	0.20dB					
File Format	SOR Standard File Format					
Loss Analysis	4-point method / 5-point method					
Laser Safety Level	Class II					
Refresh Rate	3 Hz (Typical)					
Memory	>1000 Curves, Support External SD					
Connector	FC/UPC (interchangeable with SC and ST)					
Data Interface	USBType-C port					

Optical Power Meter	
Wavelength Range	800 nm~1700 nm
Connector	Universal FC/SC/ST
Test Scope	-50dBm~-26dBm/-70dBm~+10dBm
Uncertainty	± 5%
Calibration Wavelength	850nm/980nm/1300nm/1310nm/1490nm/1550nm/1625nm/1650nm
Laser Source	
Laser Type	FP-LD
Wavelength	Consistent with OTDR Output wavelength
Output Power	≥ -5 dBm (SM Fiber)
Mode	CW/270Hz/1kHz/2kHz
Stability	CW, ± 0.5 dB/15 Min (Test after 15 minutes of preheating)
Connector	FC/UPC (interchangeable with SC and ST)
Visual Fault Locator	
Wavelength	650nm± 20nm
Output Power	≥ 10 dBm
Mode	CW/1Hz/2Hz
Connector	FC/UPC (interchangeable with SC and ST)
RJ45 Cable Tracker	
Mode	Digital tracking
Distance	≥ 300km
Line Pair Tracking	Support
Connector	FC/UPC (interchangeable with SC and ST)
General Parameters	
Display	3.5 inches color LCD plus touch screen resolution - 800x480 IPS TFT

Power Supply	USB Type-C adapter: Input: 100V~240V, 50/60 Hz, Output 5V/3A, 9V/2A12V/1.5A Lithium battery - 3.7V, 4000mAh; 10 hours live testing
Working Temperature	-10°C ~ +50°C
Storage Temperature	-40°C ~ +70°C
Relative Humidity	0~95%, (No Condensation)
Weight	.25kg
Size	170mmx120mmx30mm
Functions of Host: OTDR, event map, optical power meter, RJ45 cable tracker, line finder, cable sequence, cable length, end face detection, flashlight, optical loss test	

Ordering Information

Model	Wavelength	Dynamic Range	Included in Package
WRX1000H-D	1310/1550nm	24dB/22dB	OTDR with lithium battery Power Adapter SC Adapter USB cable Quick Guide User's manual Calibration certificate Warranty card Instrument soft case
WRX1000H-S1	1310nm	24dB	
WRX1000H-S2	1550nm	22dB	
WRX1000H-S3	1610nm	22dB	
WRX3000H-S4	1625nm	22dB	
WRX3000H-S5	1650nm	22dB	

