WRX5000 Advanced OTDR

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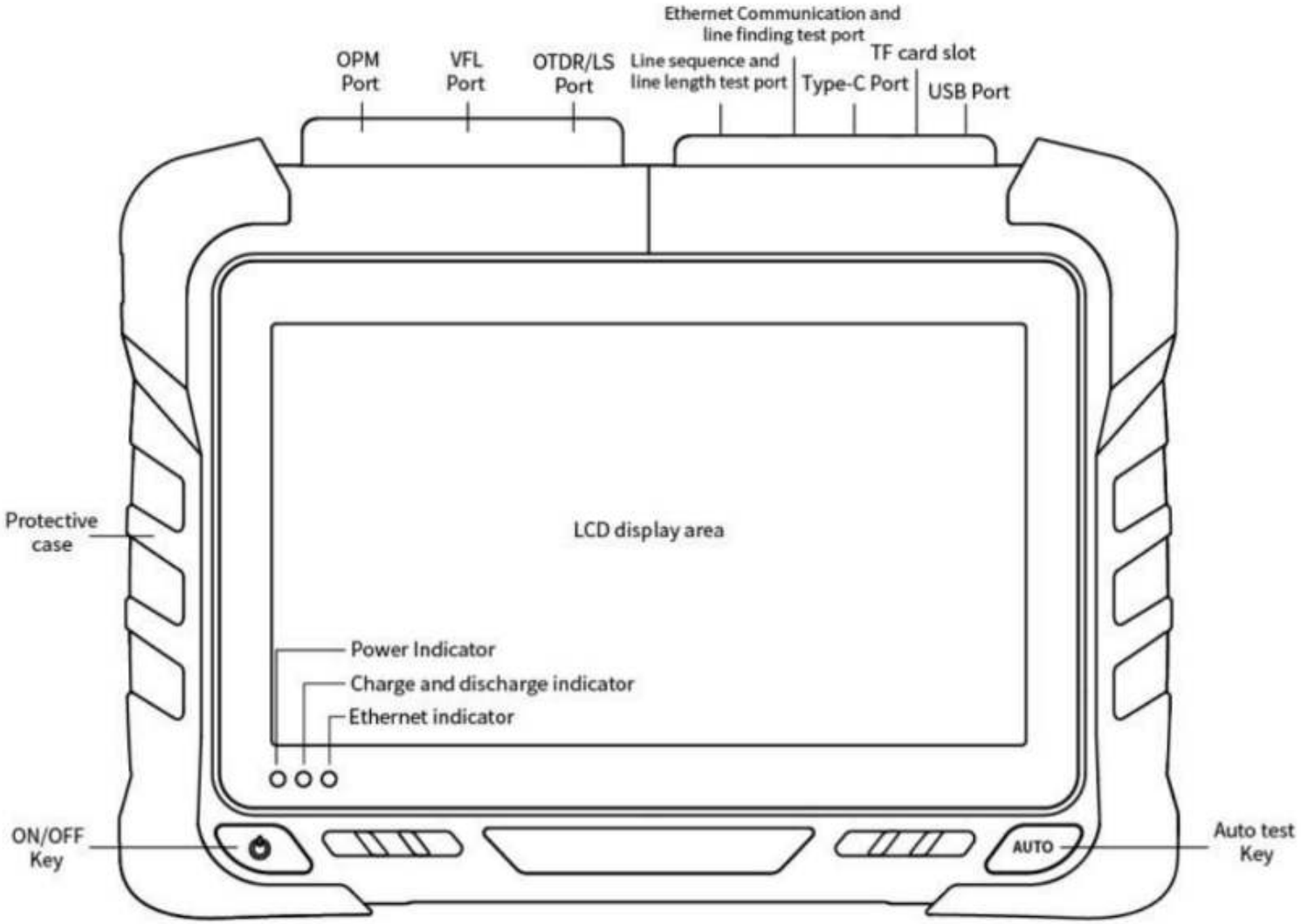
Singlemode, Multimode, Singlemode + Multimode

The WRX5000 series single mode + multi mode optical time domain reflectometer (OTDR) is the new generation of intelligent tester for the detection of fiber communications systems and optical network construction for outstanding performance and is specially designed for long haul application. This specially designed unit offers a seven inch capacitive touch screen which integrates nine modules. It has excellent accuracy of short fiber test and automatic test and is equipped with a rich Ethernet test (Ping/PPOE, etc) and supports APP control. The WRX5000 series is used to measure the length, loss, and connection quality of optical fiber used in engineering construction, line maintenance & testing, emergency repair, and the development and production of optical fiber cables.

Features

- 7” capacitive touch screen zoom in and out curve
- 0.5m Event Dead Zone
- Maximum dynamic range 45 dB
- Supports SM/MM/SM+MM test
- Online detection, effective APD active protection
- PON network online test
- Supports fast charging protocol and power bank
- Ethernet test, supporting Ethernet Remote Test
- Integrates OTDR, VFL, LS, OPM, Event Map, End Detection, Optical Loss Test, Ethernet Test, Remote Test, File Management
- Small and light
- Detection of online test
- Caution function
- Report printing
- Files batch processing
- Multiwavelength simultaneous test
- Automatic analysis of results
- Bluetooth

Ports


Ethernet Communication and line finding test port
OPM Port
VFL Port
OTDR/LS Port
Line sequence and line length test port
TF card slot
Type-C Port
USB Port
Protective case
LCD display area
Power Indicator
Charge and discharge indicator
Ethernet indicator
ON/OFF Key
AUTO
Auto test Key

Specifications

WRX5000-XX(X)	S0	S1	S2	S3	S4	T1	T2	T3	T4	T5	T6	F1	M1	SM1	SM2
Type	SM												MM	SM/MM	
Wavelength	1310/1550nm					1310nm 1490nm 1550nm		1310nm 1550nm 1625nm		1310nm 1550nm 1625nm		1310nm 1490nm 1550nm 1625nm	850nm 1300nm	850nm 1300nm 1310nm 1550nm	
Maximum Dynamic Range (dB)	32/30	38/36	42/40	45/43	45/43	32/30/30	37/35/35	32/30/30	37/35/35	32/30/30	37/35/35	37/35/35/35	26/28	26/28/35/33	26/28/37/35
Event Blind Zone	0.8m		0.5m			0.8m	0.5m	4m	3.5m	4m	3.5m	3.5m	6m		
Attenuation Blind Zone	4m		3.5m			4m	3.5m	4m	3.5m	4m	3.5m	3.5m	6m		
Test Range	100m/500m/1.25km/2.5km/5km/10km/20km/40km/80km/125km/260km/420km														
Pulse Width	3ns/5ns/10ns/20ns/30ns/50ns/80ns/100ns/200ns/300ns/500ns/800ns/1μs/μ2s/3μs/5μs/8μs/10μs/20μs														
Range Accuracy	± (0.75m+ Sample Interval + 0.0025% x Test Distance)														
Loss Accuracy	≤0.03 db/db														
Sample Points	≧256k														
Sample Resolution	0.015m~16m														
Reflection Accuracy	± 2dB														
Loss Resolution	± 0.001dB														
Loss Threshold	0.01dB														
File Format	SOR Standard File Format														
Loss Analysis	4-point method / 5-point method														
Laser Safety Level	Class II														
Refresh Rate	4 Hz (Typical)														
Data Storage	Internal Storage - 2GB, 200,000 curves; External Storage - 64GB														
Connector	FC/UPC (interchangeable with SC and ST)														
Data Interface	USB-A, Type-C port, RJ45 LAN 10/100 Mbit/s														
OPTICAL POWER METER															
Wavelength Range	800 nm~1700 nm														

Connector	Universal FC/SC/ST
Test Scope	-50dBm~+26dBm/-70dBm~+6dBm
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 INDICATOR (VFL)	
Wavelength	650nm± 20nm
Output Power	≧10 dBm
Mode	CW/1Hz/2Hz
Connector	FC/UPC (interchangeable with SC and ST)
OPTICAL LOSS TEST Index refers to the above light source and optical power meter index	
GENERAL PARAMETERS	
Display	7.3 inch color LCD plus touch screen resolution - 800x480
Power Supply	Type-C adapter: Input: 100V~240V, 50/60 Hz, Output 5V/3A, 9V/2A, 12V/1.5A Lithium battery - 3.7V, 10400mAh
Working Temperature	-10℃ ~ +50℃
Storage Temperature	-40℃ ~ +70℃
Relative Humidity	0~95%, Non Condensing
Weight	1.2kg
Size	215mmx160mmx50mm
Functions of Host: OTDR/VFL/OPM/Event Map/End Detection/Optical Loss Test/Ethernet Test/Remote Test/File Management	

Applications

- Measure the loss of splicing points, optical connectors and adapters.
- Measure the loss of single fiber or cable
- Measure the length of cable
- Set different refractive indexes for various fibers.
- Locate the position of the broken point, optical connector and adapter.
- Measure the discrete reflection ratio between SR points.
- Measure return loss for the whole fiber circuit.

Ordering Information

Model	Wavelength	Dynamic Range	Included in Package
WRX5000-S0	1310nm/1550nm	32dB/30dB	Host OTDR AC/DC Power Adapter U Disk (containing analysis software) Data line OTDR SC Adapter OPM SC Adapter Users Manual Calibration certificate Certificate/Warranty Card Clean cotton piece Special backpack for instrument
WRX5000-S1	1310nm/1550nm	38dB/36dB	
WRX5000-S2	1310nm/1550nm	42dB/40dB	
WRX5000-S3	1310nm/1550nm	45dB/43dB	
WRX5000-S4	1310nm/1550nm	45dB/43dB	
WRX5000-T1	1310nm/1490nm/1550nm	32dB/30dB/30dB	
WRX5000-T2	1310nm/1490nm/1550nm	37dB/35dB/35dB	
WRX5000-T3	1310nm/1550nm/1625nm	32dB/30dB/30dB	
WRX5000-T4	1310nm/1550nm/1625nm	37dB/35dB/35dB	
WRX5000-T5	1310nm/1550nm/1625nm	32dB/30dB/30dB	
WRX5000-T6	1310nm/1550nm/1625nm	37dB/35dB/35dB	
WRX5000-F1	1310nm/1490nm/1550nm/1625nm	37dB/35dB/35dB/35dB	
WRX5000-M1	850nm/1300nm	26dB/28dB	
WRX5000-SM1	850nm/1300nm/1310nm/1550nm	26dB/28dB/35dB/33dB	
WRX5000-SM2	850nm/1300nm/1310nm/1550nm	26dB/28dB/37dB/35dB	