

Singlemode 1310, 1550, 1610



The WRX3000 series optical time domain reflectometer (OTDR) adopts a 4.3 inch capacitive touch screen and integrates twelve functions including auto OTDR, expert OTDR, event map, OPM, RJ45 cable tracker, and "computer level" file management to meet various test requirements. The OTDR has a maximum dynamic range of 26dB, 8G memory, and can store more than 200,000 curves. It is also equipped with a 4000mAh high density polymer lithium battery with intelligent power saving management providing up to twelve hours testing time.

The WRX3000 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.

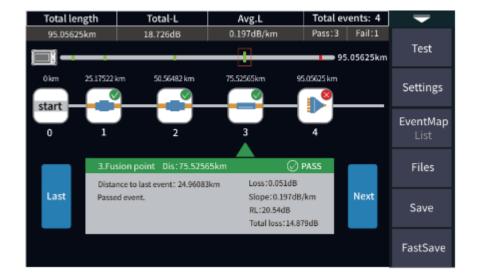
## **Features**

- 4.3" capacitive touch screen zoom in and out curve
- 2.5m Event Dead Zone
- Maximum dynamic range 26 dB
- Supports Single Mode 1310nm, 1550nm, 1610nm
- Twelve functions including Auto OTDR, expert OTDR, event map, OPM, LS, VFL, RJ45 cable tracker, RJ45 cable length, end face detection, optical loss test, flashlight
- Auto OTDR one key test, no complex settings
- VFL and LS can be run in the background, tasks can be run simultaneously
- RJ45 cable tracker of digital radar
- RJ45 cable sequence/cable length test up to 300m
- One click screen capture, stores 200,000 curves
- HD imaging end face detection
- "Computer level" file management, 8G memory
- 4000mAh lithium battery, twelve hours of testing
- LS supports CW/modulation mode output with adjustable output power
- OPM supports CW/270/330/1k/2kHz frequency identification PON network online test

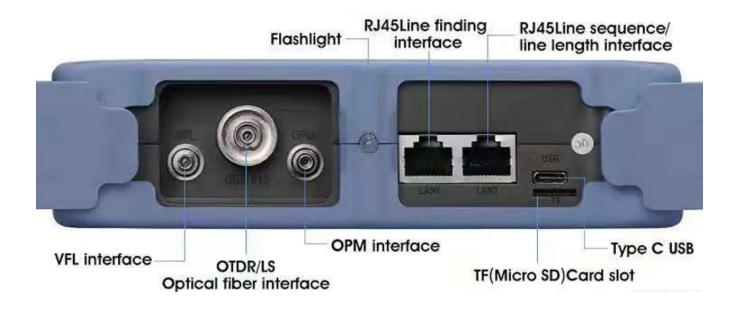








## **Ports**



## **Specifications**

WRX3000-X(X)	<b>S</b> 1	S2	D	F1(live test)	F2(live test)	T (live test)
Туре	G.652 SM					
Wavelength (nm)	1310± 20nm	1550± 20nm	1310/1550± 20nm	1310± 20nm	1550± 20nm	1610± 20nm
Maximum Dynamic Range (dB)	26dB	24dB	26dB/24dB	26dB	24dB	22dB
Event Blind Zone	2.5m					
Attenuation Blind Zone	8m					

Test Range	500m/1km/2km/4km/8km/16km/32km/64km/100km		
Pulse Width	3ns/5ns/10ns/20ns/30ns/50ns/80ns/160ns/320ns/500ns/800ns/1μs/2μs/3μs/5μs/8μs/10μs/20μs		
Range Accuracy	± (1.0m+ Sample Interval + 0.005% x Test Distance)		
Loss Accuracy	≤0.05 db/db		
Sample Points	16k~128k		
Sample Resolution	0.05m~8m		
Reflection Accuracy	± 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)		
Data Storage	Internal Storage - 2GB, 200,000 curves; External Storage - 8GB		
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~+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 (V	/FL)			
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	4.3 inches color LCD plus touch screen resolution - 800x480 IPS TFT			
Power Supply	Type-C adapter: Input: 100V~240V, 50/60 Hz, Output 5V/3A, 9V/2A12V/1.5A Lithium battery - 3.7V, 4000mAh; 12 hours live testing			
Working Temperature	-10°C ~ +50°C			
Storage Temperature	-40°C ~ +70°C			
Relative Humidity	0~95%, Non Condensing			
Weight	.5kg			
Size	173mmx109mmx45mm			
Functions of Host: Auto OTDR/ Expert OTDR/Event Map/OPM/LS/VFL/RJ45 cable tracker, line finder, cable sequence, cable length, end face detection/flashlight/optical loss test				

## **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





Model	Wavelength	Dynamic Range	Included in Package		
WRX3000-S1	1310nm		Host OTDR (battery included)		
WRX3000-S2	1550nm	74 <b>0</b> K	AC/DC Power Adapter -8GTF card (built-in OTDR, Analysis		
WRX3000-D	1310nm/1550nm	25dB/24dB	software, User's manual)		
WRX3000-F1	1310nm	26dB	SC Adapter		
WRX3000-F2	1550nm	24dB	Cotton piece Calibration certificate; Warranty card		
WRX3000-T	1610nm		Instrument backpack		