MULTI-FUNCTION OPTICAL TESTER VT-42FR Min V2 (Mini OTDR)



Product overview

VT-42FR Min V2 mini optical time domain reflectometer is compact and easy to carry; it adopts a 3.5-inch high-definition touch screen, supports multi-touch and smooth operation. Internal integration of OTDR, event map, optical power, red light, flashlight and other functions in one, to meet various test needs in different occasions. Among them, the OTDR function adopts 1550nm wavelength and built-in high-efficiency wavelength isolator. It can perform optical test on 1490nm and 1577nm links. It supports up to about +10dBm with optical test capability, and the maximum measurement range is 80km.

The VT-42FR Min V2 is used to measure the length, loss, connection quality and other parameters of the optical fiber. It can easily test the breakpoint, bend, and loss point of the optical fiber link. It is suitable for line maintenance and emergency repair testing by installation and maintenance personnel

Features

- Compact and attractive design, easy to carry
- Event list with intuitive display of analysis events
- Integrated VFL/OPM/LS with rich functionalities
- Battery life over 8 hours, ensuring safe operation
- Operating wavelength of 1550 nm, supports live testing
- Short event dead zone, measurement range up to 80 km
- 3.5" color TFT LCD multi-touch screen for user-friendly interaction
- High-performance processor for smooth control
- Type-C USB charging (similar to common smartphones), extremely convenient for users

Specifications

OTDR			
Model	VT-42FR Min V2		
Fiber Type	SM		
Wavelength	1550 nm \pm 20 nm		
Dynamic Range	25dB		
Event Blind Zone	2.5m		
ATT Blind Zone	10m		
Test Range	100m/300m/500m/1.25km/2.5km/5km/10km/20km/		
	40km/80km		
Pulse Width	5ns/10ns/20ns/30ns/50ns/80ns/100ns/200ns/300ns/500ns/800ns/1μs/2μs/3μs/5μs/		
	8μs/10μs		
Ranging accuracy	\pm (1m+sampling interval+0.005% \times distance)		
Loss accuracy	± 0.05dB / dB		
Sampling Points	20k		
Reflection accuracy	\pm 3dB		
Sampling resolution	≤ 5cm		
Loss resolution	0.01dB		
Distance resolution	0.01m		
Loss threshold	0.20dB		
File format	SOR Standard file format		
Loss Analysis	4 - point method / 5 - point method		
Refractive index	1.00000 ~ 2.00000 , 0.0001 step (IOR Setting)		
Laser Safety Level	Class II		
Connector	SC / APC		
OPM			
Wavelength range	800nm ~ 1700nm		
Connector	Universal FC / SC / ST		
Test scope	-50dBm ~ + 26dBm / -70dBm ~ + 10dBm		

Identification	CW / 270Hz / 330Hz / 1kHz / 2kHz		
frequency	CW / Z / OHZ / JOHZ / TRHZ / ZRHZ		
Uncertainty	± 5 %		
Calibration wavelength	850nm / 980nm / 1270nm /1300nm / 1310nm / 1490nm / 1550nm /1577nm /		
	1625nm / 1650nm (Support 10G-PON wavelength measurement)		
LS			
Wavelength	Consistent with OTDR output wavelength		
Laser Type	FP-LD		
Output power	≥ -5dBm		
Stability	CW , £ 0.5dB / 15min (Test after 15 minutes of boot - up preheating)		
Connector	Consistent with OTDR		
Mode	CW / 270Hz / 330Hz / 1kHz / 2kHz		
VFL			
Wavelength	650nm +-20nm		
Output Power	≥ 10mW		
Mode	CW / 1Hz / 2Hz		
Connector	Universal FC / SC / ST		
Laser Safety Level	Class III		
Others			
Display	Full Touch 3.5 inches, 320x480, Color LCD screen		
Data Interface	Type-C USB		
Data Storage	Internal: ≥ 2000 curves		
Power Supply	AC / DC Adapter : Input : 100V ~ 240V , 50 / 60Hz		
	Output : 5V , 2A , Li - Battery : 3.7V , 2200mAh		
Battery working hours	Continuous testing > 8 hours ; Standby > 12 hours		
Operating Temperature	-10°C ~ + 50°C		
Storage Temperature	-40°C ~ + 70°C		
Relative Humidity	0 ~ 95 % Non Condensing		
Weight	≤200g (Battery included)		
Size	126mm x 80mm x 37mm		

Packing

NO.	Name	Quantity	Remarks
1	VT-42FR Min V2 Mini OTDR	1	
2	AC/DC power adapter	1	
3	Data line	1	
4	SC/UPC Coupler	1	
5	SC/APC-SC/UPC optical patch cord	1	
6	U disk(containing analysis software/instruction manual)	1	
7	User's manual	1	
8	Instrument bag	1	