



VT-42MP-PON Optical Time Domain Reflectometer

Optical Time Domain Reflectometer

VT-42MP-PON OTDR adopt 7 inch capacitance touch screen, which integrates 9 modules. With excellent intelligent hardware design, the accuracy of short fiber test and automatic test is higher. It can test 1:64 splitter. It is equipped with rich Ethernet test (Ping/PPOE, etc), support APP control.

VT-42MP-PON OTDR is used to test the optical fiber length, loss and connection quality, and used in the engineering construction, link maintenance test, They are mainly used in urban trunk, bone trunk network and metropolitan area network.

Features

- 0.5m Event Dead Zone
- Support SM/MM/SM+MM test
- Online detection, effective APD active protection
- Support fast charging protocol and power bank
- Ethernet test, supporting Ethernet Remote Test
- PON network online test
- Maximum dynamic range 45dB
- Mobile APP wireless operation
- Integrate OTDR/VFL/LS/OPM/Event Map/End Detection/Optical Loss Test/Ethernet test/Remote test/File management.

Specifications

OTDR	
Model	VT - 42MP - PON
Fiber Type	G.652
Wavelength	1310nm/1550nm±20nm 1625nm±15nm (Filtered)
Filter	High pass>1595nm Isolation>40dB (1270nm~1585nm)
Dynamic Range	43dB/41dB/41dB
Event Blind Zone	0.5m
ATT Blind Zone	3m
PON Blind Zone	28m
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/1000ns/ 2000ns/3000ns/5000ns/8000ns/10000ns/20000ns
Ranging accuracy	± (0.75m + Sample interval + 0.005% x Test distance)
Distance unit	Km, m, mi, kft (m displayed for short distances)
Loss accuracy	± 0.03dB / dB
Sampling Points	≥256k
Sampling resolution	≤5cm
Display span	0 ~ 40dB
Display resolution	≤ 1 cm
Reflection accuracy	± 2dB
Loss Resolution	±0.001dB
Loss Threshold	0.01dB
Refractive index	1.0 ~ 2.0 , in steps of 0.0001 (IOR Setting)
Cursor resolution in approx	± 0,01dB
Display resolution is approx	± 0,01dB
Sampling resolution in approx	± 0,01dB
Threshold	-11 to -99 dB in 1 dB step
File format	SOR Standard file format
Loss Analysis	4 - point method / 5 - point method
Laser Safety Level	Class II
Data Storage	Internal storage: 2GB, 220.000 curves ; External storage: 64GB
Connector	SC/APC of UPC (Interchangeable FC , ST)
Refresh Rate	4Hz (Typ .)

Data Interface	USB-A , Type-C port, RJ45 LAN 10M/100Mbit/s
OPM	
Wavelength range	800nm ~ 1700nm
Connector	Universal FC / SC / ST
Test scope	-50dBm ~+ 26dBm / -70dBm ~+ 6dBm
Uncertainty	± 5 %
Calibration wavelength	850nm /980nm /1300nm /1310nm /1490nm /1550nm /1625nm /1650nm
LS	
Laser Type	FP-LD
Wavelength	Consistent with OTDR output wavelength
Output power	≥ -5dBm
Mode	CW/270Hz/1Hz/2Hz
Stability	CW , £ 0.5dB / 15min (Test after 15 minutes of boot - up preheating)
Connector	SC/APC of UPC (Interchangeable FC , ST)
VFL	
Wavelength	650nm ±20nm
Output Power	≥ 10mW
Mode	CW / 1Hz / 2Hz
Laser SafetyLevel	Class III
Distance	≥ 10km
Connector	FC / SC / ST
Others	
Display	7 inch Color LCD + Touch Screen Resolution: 800x480
Software updates	Via PC or USB
Power Supply	Type-C Adapter : Input : 100V ~ 240V , 50 / 60Hz Output : 5V/3A, 9V/2A, 12V/1.5A , Lithium - Battery : 3.7V, 10680mAh
Operating Temperature	-10°C ~ + 50°C
Storage Temperature	-40°C ~ + 70°C
Relative Humidity	0 ~ 95 % Non Condensing
Weight	≤ 1.2kg
Size	215mm x 160mm x 50mm

Packing

NO.	Name	Quantity	Remarks
1	Host	1	Battery included
2	AC/DC power adapter	1	
3	USB disk(containing analysis software/ User's manual)	1	
4	Data line	1	
5	OTDR SC adapter	1	
6	OPM SC adapter	1	
7	User's manual	1	
8	SC/UPC or SC/APC coupling	1	
9	SC/APC-SC/UPC optical patch cord	1	
10	Clean cotton piece	10	
11	Leather knob	1	
12	Special backpack for instrument	1	

Contact information:

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