

Multi-functional Optical Time Domain Reflectometer Support 1270/1310/1490/1577nm Online Test

Model: BD500D



Overview

This optical time domain reflectometer is a multi-functional optical measuring instrument, integrating automatic OTDR, expert OTDR, event map, 10G split wave optical power meter, end state verification, multi-core test, stable light source, optical power meter, optical loss test, network line length, line sequence test, network line hunting, optical fiber end detection and other functions in one. Touch screen and button double design, simple operation, friendly interface, is the optical cable construction installation, engineering acceptance and on-site repair of the right hand.

Mini Pro series OTDR adopts 4.3-inch capacitive touch screen. It integrates 16 functions, such as auto OTDR, expert OTDR, event map, OPM, LS, VFL, RJ45 cable tracker, 10G OPM, Optical Loss Test, OUN State-testing OTDR has a maximum dynamic range of 28dB, 8G memory, and can store more than 200,000 curves; it is equipped with 4000mAh high-density polymer lithium battery, intelligent power saving management, measuring time of more than 8 hours, and supporting power supply and charging of the power bank. series are used to measure the length, loss, connection quality and other parameters of optical fiber.

Technical Specifications

Model	BD500D
Wavelength	1310nm/1550nm $\pm$ 20nm
Fiber Type	G.652
Dynamic Range	28dB/26dB
Event Blind Zone	3m
ATT Blind Zone	8m

Test Range	500m~80km	
Pulse Width	3ns~10us	
Ranging accuracy	±（1m+ Sampling interval +0.005%×Test distance）	
Loss accuracy	±0.05dB/dB	
Sampling Points	16k~128k	
Sampling resolution	0.05m~8m	
Reflection accuracy	±3dB	
Data Storage	Internal: ≥600; External: TF Card	
Laser Safety Level	Class II	
File format	SOR Standard file format	
Connector	FC/UPC（Interchangeable SC、ST）	
10G OPM		
Wave Range	1490nm/1577nm	
Interface Type	Universal Joint FC/SC/ST	
Test Range	-40dBm~+10dBm	
Uncertainty	±5%	
Frequency Identification	CW/270/330/1k/2kHz	
OPM		
Wave Range	800nm~1700nm	
Interface Type	Universal Joint FC/SC/ST	
Test Range	-50dBm~+26dBm	
Uncertainty	±5%	
Frequency Identification	CW/270/330/1k/2kHz	
Calibration wavelength	850/980/1300/1310/1490/1550/1625/1650nm	
LS		
LD Type	FP-LD	
Wavelength	1550nm±20nm	1310nm/1550nm±20nm
Output Power	≥-5dBm	
Modulation Frequency	270/330/1k/2kHz	
Stability	CW， ±0.5dB/15min （Test after 15 minutes of preheating）	
Connector	FC/UPC（Interchangeable SC、ST）	

VFL	
Wavelength	650nm±20nm
Output Power	≥10mW
Mode	CW/1Hz/2Hz
Connector	FC/SC/ST
RJ45 Cable Length Measurement	
Test Range	300m
Other Parameters	
Display	4.3 inch Color LCD
Data Interface	Micro USB
External storage	TF Card
Power Supply	Polymer Li-Battery: 3.7V, 4000mAh Adapter: 5VDC, 2A
Battery Life	Standby>20h; Measuring time>12h
Operating Temperature	-10℃～+50℃
Storage Temperature	-40℃～+70℃
Relative Humidity	0～95% Non Condensing
Size	180mm×110mm×44mm
Weight	≤400g