



OTDR-4000 series mini optical time domain reflectometer – 2021 new launch, new upgrade

Features:

- 4.3-inch multi-touch capacitive screen, support new gesture zoom function, screen capture
- Intelligent multi-function, 12-in-1 functional modules: automatic OTDR, expert OTDR, event map, optical power meter, visible red light, adjustable light source, optical loss test, RJ45 network cable to cable, RJ45 network cable ranging, RJ45 Network cable hunting, flashlight, end face detection (optional)
- Automatic OTDR, no complicated settings, one-key test
- Expert OTDR, professional measurement mode, simultaneous display of curve, list and MAP view
- Event dead zone 2.5m, attenuation dead zone 8m, measurement range up to 100KM
- Support less than $-5/0\text{dBm}$ optical signal with optical test, high isolation bilateral/trilateral filtering technology,

- Support automatic saving, SOR file format, 8G storage capacity, can store 200,000 records
- Support Type-C charging interface, 4000mAh polymer battery, battery life is more than 12 hours

Technical indicators

Product Model	FK-4000S	FK-4000D	FK-4000F	FK-4000T
Test wavelength	1550nm	1310nm/1550nm	1310 或 1550nm	1610nm
With optical test	Not supported	Not supported	Supported optical signal less than -5dBm	Supported optical signal less than 0dBm
Fiber Type	G.652 Single Mode Fiber			
Dynamic range	24dB	26dB/24dB	26DB or 24dB	22dB
Event Blind Spot	2.5m			
Attenuation dead zone	8m			
Measuring range	500m, 1km, 2km, 4km, 8km, 16km, 32km, 64km, 100km			
Pulse width	3ns~20us			
Ranging accuracy	$\pm(1m + \text{sampling interval} + 0.005\% \times \text{test distance})$			
Linearity	$\pm 0.05\text{dB/dB}$			
Sampling points	16k~128k			
Sampling resolution	0.05m~8m			
Reflection accuracy	$\pm 3\text{dB}$			
Data storage	8G			
Laser safety class	Class 2			
File format	SOR standard file format			
Optical connectors	FC/UPC (interchangeable SC、ST) ; optional SC/APC			
Optical power meter function				
Wavelength range	800nm~1700nm			
Optical Connector	Universal Connector FC/SC/ST			
Measurement range	-70dBm~+6dBm 或 -50dBm~+26dBm			
Uncertainty	$\pm 5\%$			
Frequency identification	CW/270/330/1k/2kHz			
Calibration wavelength	850/980/1300/1310/1490/1550/1625/1650nm			
Stable light source function				

Laser type	FP-LD		
Output wavelength	1550nm± 20nm	1310nm/1550nm ±20nm	1310nm±20nm
Adjustable output power	(-2dBm±~-10dBm) ±2dB		
Modulation frequency	270/330/1k/2k/Hz		
Stability	CW, ±0.2dB/15min (tested after 15min warm-up after startup)		
Optical Connectors	FC/UPC (InterchangeableSC、ST)		
Visible red light function			
Working wavelength	650nm±20nm		
Output power	≥10mW		
Working mode	CW/1Hz/2Hz		
Optical Connector	Universal Connector FC/SC/ST		
Network line ranging function			
Test distance	0~300 meter		
General Specifications			
Display	4.3-inch multi-touch capacitive screen		
Data interface	Type-C		
Expandable external storage	TF card		
Power supply mode	Polymer lithium battery: 3.7V, 4000mAh Power adapter: 5VDC, 2A		
Battery life Standby	> 20 hours; measurement > 12 hours		
Working temperature	-10℃~+55℃		
Storage temperature	-40℃~+80℃		
Relative humidity	0~95% without condensation		
Machine weight	≤500g		
Volume	173mm×109mm×45mm		
Configuration list: host, power adapter, Type-C charging cable, SC adapter, instruction manual, warranty card, certificate, TF card (built-in analysis software), portable soft bag (including strap), remote adapter, hunt receiver			