

OTDR (Optical Time Domain Reflectometer)

**OTDR & OTDC Function : 10mm Resolution*



OTDR (Optical Time Domain Reflectometer)



Optical Time Domain Reflectometer

General Specifications

Item	General Specifications
Display	Touchscreen, VGA color LCD, 640 x 480 TFT (5.7 in)
Fiber type	USB A(host) & B(slave), Serial
Storage	Internal (flash) SD Card 2GB USB sticks 1GB and 2GB (optional)
Battery life	8 hours (typ.)
Recharger time	6 hours (typ.)
Power (AC/DC adapter input)	100-240 VAC, 50-60Hz, 2A max
Power (AC/DC adapter output)	14DVC, 2A
Vibration	<1.5g at 10Hz to 500Hz (on three main axes)
Mechanical shock	<760mm on six sides and eight main edges
Temperature (operating)	-10 ℃ to 50 ℃
Temperature (storage)	-40 ℃ to 70 ℃
Relative humidity	0% to 90%
warranty (years)	1

OTDR Specifications

Item	General Specifications	
	1310nm	
Fiber type	Single-mode	
Operation mode	ADC mode (General OTDR) or TDC mode (Fiber fault locator)	
Dynamic range (dB)	36	35
Pulse width (ns)	5, 10, 20, 50, 100, 500, 1000, 10000	
Distance range (km)	0.1, 0.2, 0.5, 1, 2, 5, 10, 20	
Event dead zone (-45dB) (m)	1	
Attenuation dead zone (-45dB) (m)	5	
Linearity (dB/dB)	±0.1	
Loss threshold (dB)	±0.05	
Loss resolution (dB)	0.01	
Reflectance accuracy (dB)	±3	
Sampling points	Up to 128000	
Sampling resolution (m)	0.01 to 0.2	
IOR setting	1.00000 to 2.00000	
Distance uncertainty (m)	±(1 + 0.005% × distance + sampling resolution)	
Typical real-time refresh (s)	0.4	
Memory capacity	500 traces	
Measurement time (ADC mode)	User-defined	
Measurement time (TDC mode)	< 1s (Fiber fault location)	
Fault distance resolution (TDC mode)	< 0.03m	
Fault distance accuracy (TDC mode)	±(1 + 0.0025% × distance)	
Optical Connector	SC/UPC or FC/UPC	