DEVISER OTDR AE3100 Series

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Variants

AE3100D-APC AE3100A-APC AE3100D-UPC AE3100A-UPC

Details

AE3100 Series Handheld OTDR

General Specifications

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Display	7 inch, 800×480 dot matrix TFT LCD touchscreen	
Interface	2×USB 2.0; 1×RJ45 LAN (10M/100M); 1×SD card slot (64GB max)	
Power	Supply	100 ~ 240V; 1.5A; 50~60Hz (AC); max 12V / 2A (DC); total max power 24W
	Consumption	6W
Battery	7.4V / 5300mAh Li-ion battery, 39.22Wh (Default); 7.4V 10000mAh Li-ion battery, 74Wh (Optional)	
Operating Time	> 6 hours on full charge (Default); > 12 hours on full charge (Optional)	
Languages	Chinese, English, Spanish, Russian, Italian, Portuguese, French, German, Japanese, Korean, Czech, Swedish, Polish	
Operating Temperature	-10°C to +50°C	
Storage Temperature	-20°C to +60°C	

Relative Humidity	0% ~ 95% non-condensing
Dimensions (L×W×H)	8.1" × 6.7" × 3.0" (206mm × 171mm × 75mm)
Weight	4.4 lbs (2 kg)

OTDR Technical Parameters

OTDR Technical Parameters	
Wavelength (nm)	Multi-mode: 850/1300, Single-mode: 1310/1490/1550/1625/1650
Wavelength Accuracy	± 20nm
Dynamic Range	Refer to ordering guide
Event Dead Zone	Refer to ordering guide
Attenuation Dead Zone	Refer to ordering guide
Distance Range	Single-mode: 100m, 400m, 1.5km, 3km, 6km, 12km, 25km, 50km, 100km, 200km, 400km (only AE3100D/E/F/H series)
	Multi-mode: 100m, 400m, 1.5km, 3km, 6km, 12km, 25km, 50km
Distance Unit	km, mile, feet, mile, meter
Sample Resolution	AE3100A/B/C: 10cm to 6.4m, other models: 4cm to 12.8m
Sampling Points	AE3100A/B/C: 128000, other models: 256000
Distance Accuracy (m)	AE3100 A/B/C/M/AM/BM/CM: ±(0.75m + 0.005% × fiber length + sample resolution)
	Other models: ±(0.75m + 0.001% × Distance + Sampling Resolution)
Group Refractive Index	1.000000 to 2.000000
Linearity	AE3100 A/B/C/M/AM/BM/CM: 0.05dB/dB, other models: 0.03dB/dB

Loss Threshold	0.001dB
Loss Resolution	0.001dB
Reflectance Accuracy	AE3100 A/B/C/M/AM/BM/CM: ±4dB, Other models: ±2dB
Refresh Rate	8 fields/second
Pulse Width	Single-mode: 3ns, 5ns, 10ns, 30ns, 50ns, 100ns, 200ns, 500ns, 1μs, 2μs, 5μs, 10μs, 20μs
	Multi-mode: 5ns, 10ns, 20ns, 30ns, 50ns, 100ns, 200ns, 500ns, 1μs
Measurement Time Range	5s ~ 5min, real time
Data Storage	>300,000 OTDR traces, exportable to USB or Computer

Functions & Accessories

Functions & Accessories			
Test Modes	Manual; Auto	File Formats	Compatible with Bellcore GR 196 v1.1 (*.SOR) and *.PDF
Limit Settings	Manual; Auto	Loss Test Type	LSA, 2pt, 4pt
Limit Profiles	8 customizable profiles	UI Style	4 styles available
Distance Shift	Yes; display negative events	FiberPath Linear View	?
Real-Time Testing	?	Touchscreen Keyboard	?
Self-Correcting	?	Web Browser	?
Online Help	?	Auto Shutdown/Sleep	?

Factory Reset	?	Macrobending Test	?
Multi-Lingual File Naming	?	Dual Wavelength Test	?
Screenshots	?	Multi-Trace Comparison	?
Optical Power Meter	Operation Wavelength	850nm~1700nm	
	Power Measuring Range	Select either [-70 to +10dBm] or [-50 to +26dBm]	
	Accuracy	±0.17dB / ±0.23dB	
	Calibration Wavelength	1310nm / 1550nm / 1490 / 1610nm and 850nm / 1300nm (only M series)	
Light Source	Wavelength	Same as OTDR; see model guide	
	Output Power	>-4dBm or >-11dBm	
	Modes	CW / 1kHz / 2kHz / 1kHz + Flash / 2kHz + Flash	
Visual Fault Locator	Wavelength	650 nm ±10 nm	
	Output Power	?1mW / 10mW / 30mW	
	Laser Safety	IEC 60825-1: 2007	
USB FiberSpot Mode	Available by option only		
FiberPath	Available by option only		
Worker	Available by option only		
Seeker	Available by option only		
Wi-Fi, Bluetooth	Available by option only		

Remote Testing	Requires SYNCOR software configuration
Cloud Asset Management	Requires SYNCOR software configuration
Optical Port Type	UPC (default); APC (optional)
Optical Adapter Type	FC/UPC (default); FC/APC, SC/UPC, SC/APC, LC/UPC, LC/APC, ST (optional)

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