

AE3100A~F Series 2-Wavelength Handheld OTDR

Key Features

- High performance OTDR for FTTx and RFoG networks
- 7", 800x480 LCD touchscreen places power and convenience at your fingertips
- Excellent short-distance performance with 0.8m event deadzone and 4m attenuation deadzone
- Dual-wavelength testing with broad dynamic range coverage (28 45dB)
- Minimum 5cm resolution
- Intelligent event analysis
- Excellent stability and repeatability
- "FiberPath" fiber link mapping mode
- Multiple options for your measurement needs, including: VFL, power meter, light source, and optical fiber microscope
- Complete user data ports: supports LAN, USB, SD, & more

Overview

From Deviser Instruments' 4th generation of OTDR, the fieldportable AE3100 marks a giant leap forward in fiber-optic measurement performance and utility. Models A through F can test the 1310nm and 1550nm wavelengths with dynamic range up to 45dB. Input signals that contain both 1310nm & 1550nm wavelengths are automatically filtered.

Featuring intuitive touchscreen controls and real-time data analysis, the AE3100 is the ideal test instrument for constructing, deploying, maintaining, and authenticating FTIx networks - as well as verifying access networks. Multiple models and configuration options ensure your unique measurement needs are covered.



Applications

Construction, deployment, maintenance, and authentication of the following networks:

- FTTx
- Long Haul Networks
- Passive Optical Networks (PON)
- Local Area Networks (LAN)
- Metropolitan Area Networks (MAN)

Also see AE3100 models CP, DP, EP, and G for triple- and quadruple-wavelength measurements with dynamic range up to 43dB, and models M, CM, DM, and EM for multi-mode testing.

Model	Wavelengths (nm)	Dynamic Range (dB)	Event Deadzone* (m)	Att. Deadzone* (m)	
А		≥ 30 / 28	≤ 1.5	≤ 5.0	
В	1310 / 1550 (± 20)	≥ 34 / 32	≤ 1.0	≥ 3.0	
С		≥ 36 / 34		≤ 4.0	
D		≥ 40 / 38	< 0.0	≤ 3.0	
E		≥ 43 / 41	≤ 0.8		
F		≥ 45 / 43			

Model Guide

* At 25°C ± 5°C; 5ns pulse width; non-saturated reflective event; 5cm distance resolution.

FiberPath™

FiberPath simplifies the interpretation of OTDR traces by identifying link elements and displaying the link map in an easy-to-understand format. Experienced and inexperienced technicians alike will appreciate the simplified display.

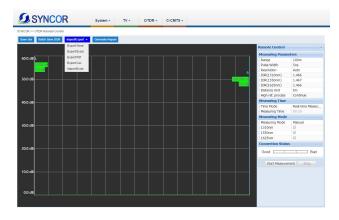


OTDR

This high-performing OTDR is the ideal solution for testing optical fiber in RFoG and FTTx applications. The OTDR can identify and locate link impairments and measure the insertion loss by LSA, 2Pt and 4Pt methods. The unit also measures optical return loss (ORL).

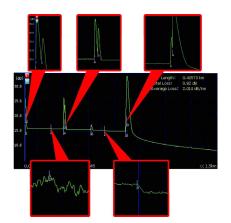
Remote Control

In conjunction with the SYNCOR PC-based asset and test data management system, users can issue test orders and collect measurement data remotely from AE3100 units deployed to the field.



Optical Measurements

The AE3100 includes a suite of optical measurement tools, including a power meter, laser source, and visual fault locator (shown below). The unit is available in numerous wavelength configurations for ensuring proper levels in networks such as RFoG and FTTx.







Pictured: Visual Fault Locator (VFL) beam illuminates bends, splices, and faults in optical fibers, with an effective range of up to 10km.

Specifications

AE3100 Model	А	В	С	D		E	F		
General									
Wavelength Accuracy	± 20nm								
Event Deadzone	≤1.5m	1.5m ≤ 1.0m ≤ 0.8m							
Attenuation Deadzone	≤ 5	0m	≤ 4.0m			≤ 3.0m			
Measurement Range		100m, 400m	, 1.5km, 3km, 6km, 12km	n, 25km, 50km, 10	00km, 20	0km, 400km			
Pulse Width	3ns, 5ns, 10 ns, 30 ns, 50 ns, 100 ns, 200 ns, 500 ns, 1µs, 2µs, 5µs, 10µs, 20µs								
Sampling Resolution	10cm -	- 12.8m			5cm ~	12.8m			
Sampling Points			Up to 2	256,000					
Distance Accuracy (m)	± (0.75m · Distance + So	± (0.75m + 0.005% x Distance + Sampling Res.) ± (0.75m + 0.001% x Distance + Sampling Resolution)							
Group Refractive Index			1.30000 -	~ 1.70000					
Linearity	0.05 0	dB/dB			0.03 d	B/dB			
Loss Threshold			0.00)1dB					
Loss Resolution			0.00	1 dB					
Refresh Rate			4 fields/	(second					
Reflectance Accuracy			± 2	2dB					
Measurement Time Range	Measurement Time Range 5s ~ 5min, real time								
Data Storage	Holds >80,000 OTDR traces, exportable to USB / SD card / computer								
	Functions & Accessories								
Test Modes	Mc	inual; Auto	File Format		Com	patible with Bellcore G	GR 196 v1.1 (*.SOR)		
Limit Settings	Mc	inual; Auto	Loss Test Type		LSA, 2pt,		ot		
Limit Profiles	8 custo	mizable profiles	UI Style			4 styles availd	able		
Distance Shift	Yes; displa	y negative events	FiberPath Line	ar View	√				
Real-Time Testing		\checkmark	Touchscreen K	eyboard		\checkmark			
Self-Correcting	✓		Web Browser	Web Browser		\checkmark			
Online Help	4		Auto Shutdow	Auto Shutdown/Sleep					
Factory Reset	4		Macrobending	Macrobending Test					
Multi-Lingual File Naming		\checkmark	Dual/Quad-λ 1	esting	g 🗸				
Screenshots		\checkmark	Multi-Trace Co	mparison	n 🗸				



Specifications (cont'd)

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ModesCW / Mit/ 24/2 / Mit + Hoah / 24/2 / Hit + Hoah / 24/2 + Hoa / 24	Laser									
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ResolutionIndicationMagnificationAddXResolution< 1.5 µm			AFEI400 Auto Fiber Endface Inspector							
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Light SourceBlue LEDStorage Temp. $-20 ~ +70^{\circ}$ CPower SourceUSB 2.0 portMeasure speed< 1s	Fault Size De	tection	0.75µm	Camera	1.3 million megapixel, 1/2" CMOS					
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General Specifications Display 7" 800x480 dot matrix TFI LCD touchscreen Interface 2x USB 2.0; 1x RJ45 LAN (10W/100M); 1x SD card slot (64GB max) Power Supply 100 ~ 240V, 1.5A, 50~60Hz (AC); max 12V / 2Ah (DC); total max power 24 W Power Consumption < 3.5W	Power Source	e	USB 2.0 port	Measure speed	< 1s					
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Power Consumption < 3.5W Battery 7.4V / 5300mAh Li-ion battery, 39.22 Wh Operating Time ~ 11 hrs on full charge Languages Chinese, English, Spanish, Portuguese, French, Russian, Italian (German, Korean, Arabic optional) Operating Temperature -10°C ~ +50°C Storage Temperature -40°C ~ +70°C Relative Humidity 0 ~ 95%, non-condensing Dimensions (LxWxH) 8.1" x 6.7" x 3.0" (206mm x 171mm x 75mm)		Supply								
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Dimensions (LxWxH) 8.1" x 6.7" x 3.0" (206mm x 171mm x 75mm)										
	·									
	Weight		< 4.4 lbs (< 2kg)							



Ordering Information

Included with all AE3100 Handheld OTDR Model	s:	
 Visual Eault Locator, 650nm (1mW) 		Optical Power Meter (select either [-70 \sim +10dBm] or [-50 \sim +26dBm])

- Optical Light Source
- Calibration & Quality Certificates ٠
- CD with Instruction Manual

- Li-Ion Battery & AC/DC Adapter Carrying Case & Stylus
 - Quick Reference Guide ٠ Cleaning Swab

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- PC Management Software ٠
- FC/PC or APC Connectors •

SKU No.	Wavelengths	Dynamic Ra	nge	Event	Deadzone	Attenuation Deadzone		
AE3100A	1310 / 1550nm	≥ 30 / 28dB		< 1.5m		< 5.0m		
AE3100B	1310 / 1550nm	≥ 34 / 32dB			< 1.0m	< 5.0m		
AE3100C	1310 / 1550nm	≥ 36 / 34dB		< 0.8m		< 4.0m		
AE3100D	1310 / 1550nm	≥ 40 / 38dB			< 0.8m	< 3.0m		
AE3100E	1310 / 1550nm	≥ 43 / 41dB			< 0.8m	< 3.0m		
AE3100F	1310 / 1550nm	≥ 45 / 43dB			< 0.8m	< 3.0m		
FC/PC	FC Connector and PC Physical Type							
SC/APC	SC Connector and APC Physical Type							
AFEI400	Auto Fiber Endface Inspector & FiberSpot™ Inspection Software							
AE4000-801	FiberPath™ Link Mapper							
AE1000-009	150 Mbps USB Wi-fi Dongle		AE40	000-737P	Fiber Cleaning Pen			
AE1000-820	Remote Measurement		DS2	400-703	2-Prong Power Cord plus Ground (Europe except UK)			
AE4000-750	FC Connector		308-	-0022-01	3-Prong Power Cord plus Ground (US)			
AE4000-753	SC Connector		DS2	400-704	3-Prong Power Cord plus Ground (Australia)			
AE4000-751	LC Connector		DS2	400-705	3-Prong Power Cor	d plus Ground (UK)		
AE4000-752	ST Connector							

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