



AE1001 Portable OTDR



Other Test Modes				
Optical Power Meter (Option)	Calibrated λ	1310, 1550nm		
	Operating λ	850, 980, 1300, 1310, 1490, 1550, 1610, 1625, 1650nm		
	Power range	Select from [-70 ~ +10 dBm] or [-50 ~ +26 dBm]		
	Power accuracy	±0.23 dB		
Visual Fault Locator (Option)	Wavelength	650 ± 10nm		
	Power	lmW		
	Compliance	Laser Safety Class II		
Optical port type		PC (default); APC (optional)		
Optical adapter type		FC (default); SC, ST, LC, SC/APC (optional)		
General Specifications				
Display		4.3" dot matrix TFT LCD touchscreen		
Interface		1x USB 2.0; 1x RJ45 LAN (10M/100M/1000M, optional)		
Interface Power	Supply			
	Supply Consumption	1x USB 2.0; 1x RJ45 LAN (10M/100M/1000M, optional) 100 ~ 240V, 1.5A, 50~60Hz (AC); max 12V / 2Ah (DC);		
		1x USB 2.0; 1x RJ45 LAN (10M/100M/1000M, optional) 100 ~ 240V, 1.5A, 50~60Hz (AC); max 12V / 2Ah (DC); total max power 24 W		
Power	Consumption	1x USB 2.0; 1x RJ45 LAN (10M/100M/1000M, optional) 100 ~ 240V, 1.5A, 50~60Hz (AC); max 12V / 2Ah (DC); total max power 24 W < 3 W		
Power Battery	Consumption	1x USB 2.0; 1x RJ45 LAN (10M/100M/1000M, optional) 100 ~ 240V, 1.5A, 50~60Hz (AC); max 12V / 2Ah (DC); total max power 24 W < 3 W 7.4V / 2500 mAh Li-ion battery, 18.5 Wh		
Power Battery Operating Tir	Consumption ne mperature	1x USB 2.0; 1x RJ45 LAN (10M/100M/1000M, optional) 100 ~ 240V, 1.5A, 50~60Hz (AC); max 12V / 2Ah (DC); total max power 24 W < 3 W 7.4V / 2500 mAh Li-ion battery, 18.5 Wh ~ 6 hrs on full charge (4 hrs continuous testing)		
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Key Benefits

- Ultra-portable, lightweight OTDR for FTTx networks
- 4.3" LCD touchscreen is visible in high- or low-light conditions
- Fast dual-wavelength test generates results in ≤5 seconds
- Excellent stability and repeatability
- Power-packed ~2-lb meter runs continuously for over 4 hours
- Save >160k OTDR traces with 16 GB of data storage

Overview

The last thing a fiber maintenance technician needs is a double armful of bulky, feature-bloated equipment to bog down the job. The new AE1001 from Deviser Instruments is a sleek, zero-fuss OTDR weighing less than 1 kg that tests the common 1310 & 1550nm wavelengths in 5s flat. Low power consumption and a solid 2500mAH battery allow the AE1001 to run automated, manual, or real-time tests continuously for over 4 hours, and are supplemented with the always-handy OPM option and VFL option.

Optical Parameters				
Test Wavelength	1310nm ± 20nm	1550nm ± 20nm		
Dynamic range*	26 dB	24 dB		
Event deadzone**	≤ 3m			
Attenuation deadzone**	≤ 10m			
Measurement range	150m, 300m, 500m, 1km, 2km, 5km, 10km, 20km, 40km, 80km			
Pulse width	3ns, 5ns, 10 ns, 30 ns, 50 ns, 100 ns, 200 ns, 500 ns, 1µs, 2µs, 5µs, 10µs, 20µs			
Sampling resolution	Auto / high-resolution modes			
Sampling points	Up to 12,800			
Group refractive index***	1.000000 ~ 2.000000			
Distance uncertainty	\pm (0.75 + 0.005% × fiber length + sample resolution)			
Linearity	0.05 dB/dB			
Loss threshold	0.001 dB			
Loss resolution	0.001 dB			
Refresh rate	10 fields/s			
Reflectance accuracy	±3 dB			
Measurement time range	5s ~ 5min, real time			
Data storage	16 GB, up to 160,000 OTDR traces			

At 25°C ± 5°C, 20µs pulse width, 3min average time, starting backscatter value SNR = 1.
** At 25°C ± 5°C, 5ns pulse width, non-saturated reflective event, 5cm distance accuracy.
*** Without group refractive index uncertainty of fiber.