

# AE3100 Series Handheld OTDR

DEVISER®



## Description

From Deviser Instruments' 4th generation of OTDR, the fieldportable AE3100 marks a giant leap forward in fiber-optic measurement performance and utility.

Featuring intuitive touchscreen controls, a modular platform, real-time data analysis, and more, the AE3100 is the ideal test instrument for constructing, deploying, maintaining, and authenticating FTTH networks - as well as verifying access networks. Multiple models and configuration options ensure your unique measurement needs are covered. Dual or multiple wavelengths from 28 to 45dB available.

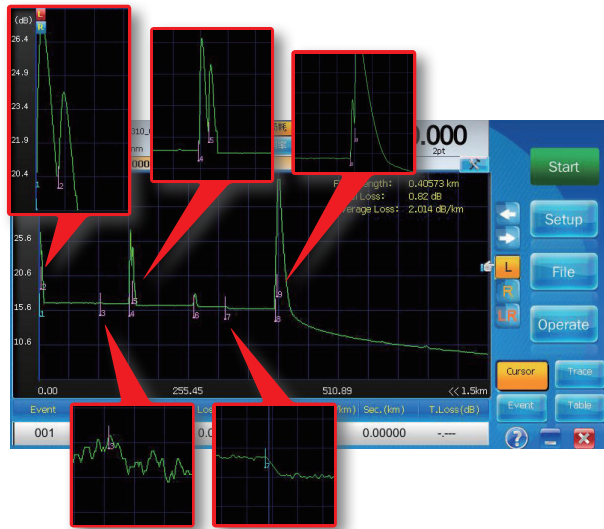
## Key Features

- 7", 800x480 LCD touchscreen places power and convenience at your fingertips
- 0.8m event dead zone, 3m attenuation dead zone; excellent short distance performance
- Broad dynamic range coverage (28 - 45 dB)
- Min. 5cm resolution
- Intelligent analysis of events
- Excellent stability and repeatability
- "FiberPass" intelligent analysis feature
- Multiple options for your measurement needs, including VFL; power meter; light source; optical fiber microscope; QAM analysis module
- Complete user data ports; support LAN, USB, SD, & more
- The results support a variety of analysis functions, such as ORL, 4pt, define section etc

## Applications

- Construction, deployment, maintenance and authentication of FTTH net.
- Construction, deployment, maintenance and authentication of LAN based fiber.
- Construction, deployment, maintenance and authentication of MAN based fiber.

## Excellent characteristics of short distance measurement



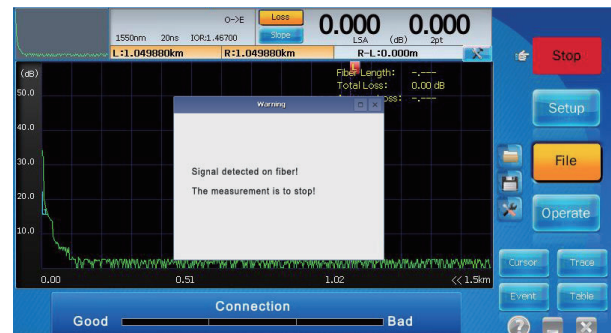
## Excellent splitter penetrating ability



## Macro bending test

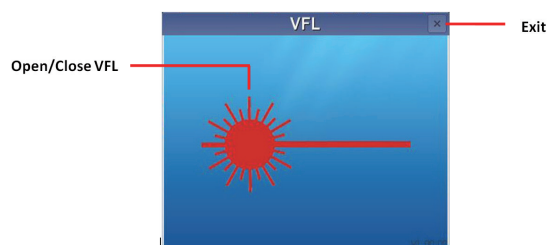


## Port state intelligent detection alarm



## Options module introduce

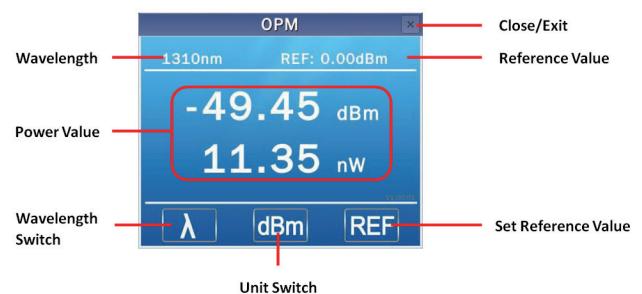
### 1. Visual Fault Locator



### Specifications

Wavelength	650 nm±10 nm
Output Power	≥10mW
Measuring Range	>10km
Laser Safety	IEC 60825 -1: 2007

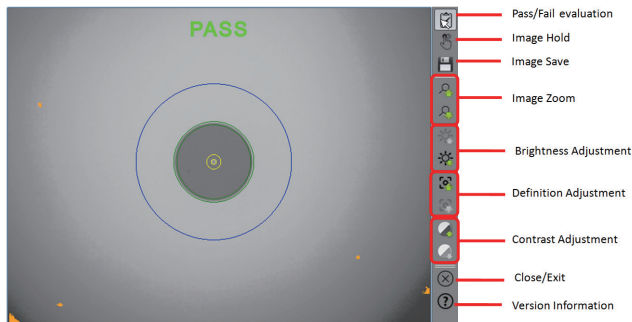
### 2. Optical Power Meter



### Specifications

Calibrated Wavelength	1310 nm/1550nm
Wavelength Range	850nm/980nm/1300nm/1310 nm/1490nm/1550nm/1610nm
Measurement Range	-70dBm ~ +10dBm
Accuracy	±0.17dB

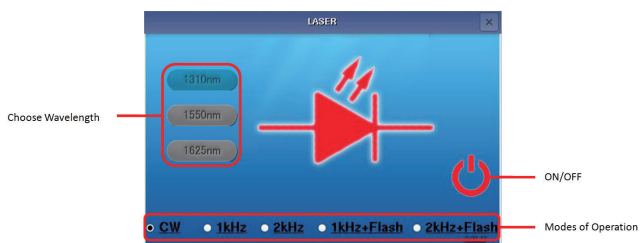
## 3. FiberSpot



## Specifications

Model type	DS-100	DI-1000
PASS/FAIL Evaluation	NO	YES
Amplification Factor	250X	
Resolution	0.5μm	0.5μm
Field of View	400μm x 310μm	425μm x 320μm
Interface	USB2.0/1.1	USB2.0
Focus	Manual adjustment	Manual adjustment, 2mm max travel
Interface type	2.5mm-PC-M; SC-PC-F; 1.25mm-PC-M; LC-PC-F; 2.5mm-APC-M; FC-APC-F	PT2-U2.5/APC/M; PT2-FS/APC/F; DI1-CASE-S; CVF-CD;

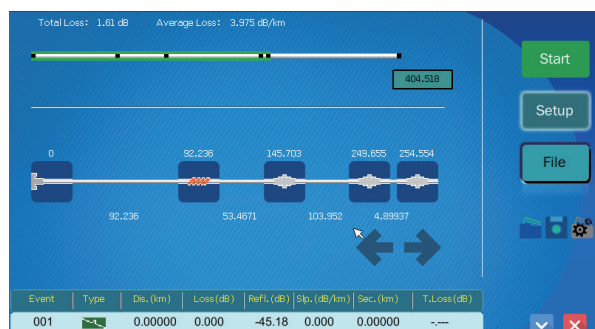
## 4. Light Source



## Specifications

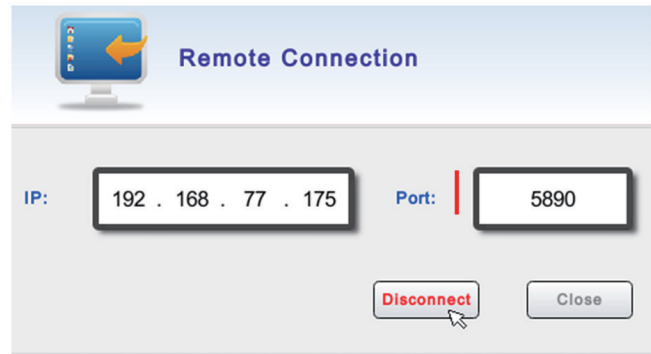
Model	Wavelength	Output Power	Output mode
AE3100A/B	1310nm/1550nm	>-11dBm	CW/1kHz/2kHz/ 1kHz+Flash/ 2kHz+Flash
AE3100C/D/E/F		>-4dBm	
AE3100CP-1	1310nm/1550nm/1625nm		
AE3100CP-2	1310nm/1550nm/1650nm		
AE3100CP-3	1310nm/1550nm/1490nm		

## 5. FiberPass



## 6. Remote control

a. First, Setup sever IP address in AE3100



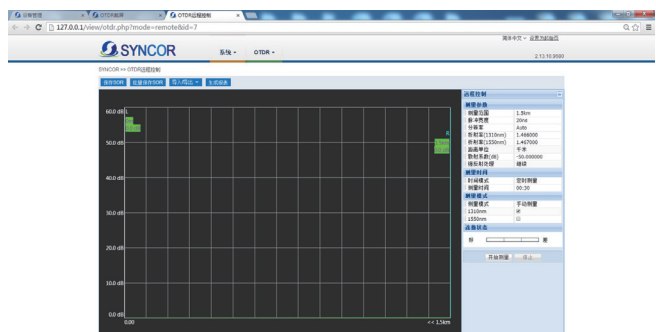
b. In the PC side, SYNCOR software >> Equipment management interface, refresh the interface, you will see the OTDR device, as shown below:



c. Click on the "remote control", as shown below:



d. The success of the remote communication, there will be a test interface, as shown below:



e. After setting the measurement parameters in the measurement settings, click the "start" button, then start remote measurement. Click the "stop" button to stop the measurement.

## Specifications

Model	AE3100A	AE3100B	AE3100C	AE3100D	AE3100CP-1	AE3100CP-2	AE3100CP-3
General Parameter							
Wavelength(nm)	1310/1550				1310/1550/1625	1310/1550/1650	1310/1550/1490
Wavelength Accuracy(nm)	±20						
Dynamic(dB)	30/28	34/32	36/34	40/38	37/35/35		
Event Dead Zone(m)	≤1.5m	≤1.0m	≤0.8m				
Attenuation Dead Zone(m)	≤5m	≤5m	≤4m	≤3m			
Distance Range	100m, 400m, 1.5km, 3km, 6km, 12km, 25km, 50km, 100km, 200km, 400km						
Sampling Resolution(m)	0.1~12.8		0.05~12.8				
Sampling Point(m)	256000						
Distance Accuracy(m)	±(0.75m + 0.005% x Distance + Sampling Resolution)		±(0.75m + 0.001% x Distance + Sampling Resolution)				
Loss threshold	0.01dB						
Loss resolution	0.001 dB						
Pulse Width	3ns, 5ns, 10 ns, 30 ns, 50 ns, 100 ns, 200 ns, 500 ns, 1μs, 2μs, 5μs, 10μs, 20μs						
Measurement Time Range	5s~5min, real time						
Memory Capacity	80,000 OTDR traces, exportable to USB or Computer						
Test mode	Manual, AUTO						
Threshold setup	Manual, AUTO						
Custom threshold setup	8 groups						
Distance offset setup	YES						
UI style	4						
Autocorrect	YES						
Online Support	YES						
Factory Reset	YES						
OTDR Trace Format	Compatible of Bellcore GR-196 V1.1 *.SOR						
Loss Modes	2-pt LSA, 2-pt loss, 4-pt						
Screen Shot	YES						
Soft Keyboard	YES						
Browser	YES						
Auto Shutdown and Hibernate	YES						
Double Wavelength Test	YES						
Macrobending Test	YES						
Real Time Test	YES						
FiberPass	YES						
Remote	YES, SYNCOR required						
Other Parameter							
Display	7 inch (178mm) 800×480 dot matrix TFT touch screen						
Interface	USB2.0 ×2, RJ45×1, LAN×1(10M/100M), TF×1(Max,64GB)						
Battery autonomy	11 hours of measurement usage (Max)						
Language	Chinese, English, Spanish, Portuguese, French, Russian, Italian (German, Korean and Arabic are optional)						
Dimension(L×W×D)	206 mm x 171 mm x 75mm, Inches: 8.11" x 6.73" x 2.95"						
Weight(kg & lbs)	< 2kg or < 4.41lbs						

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