ASCENTAC



ASCENTAC Fiber Go

Optical Time Domain Reflectometer

Ascentac OTDR700C

The Smart Multi-Pulse Measurement Method Enables Fiber Link Testing Without Interrupting Live Signal Transmission, Offering Greater Flexibility and Efficiency in Use

Feature

- Smart View
- In-service testing
- Multi-function in one
- Ethernet cable testing
- USB Type-C charging

Application

- Telecom maintenance
- CATV maintenance
- Optical fiber testing
- Other fiber optic maintenance

Introduction

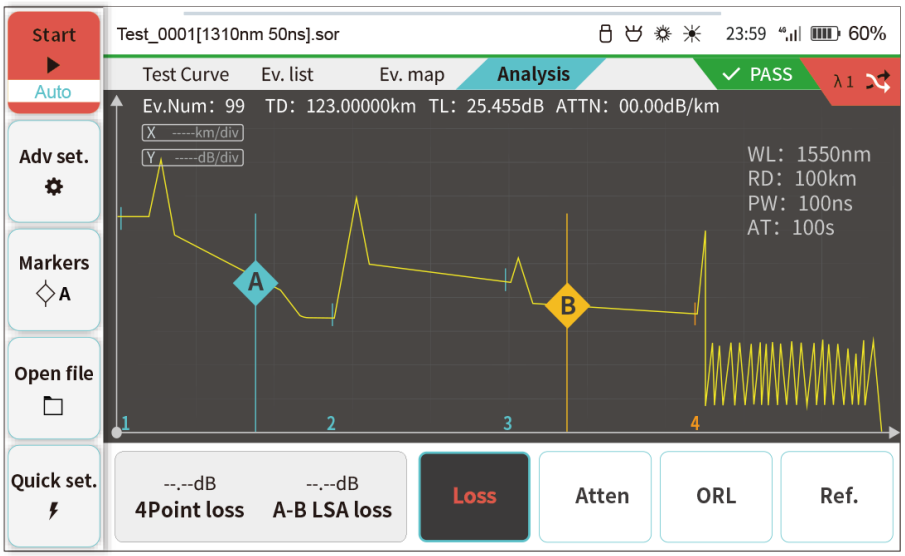
Ascentac FiberGo OTDR700C Series, Optical Time Domain Reflectometer, utilizes optical fiber backscattering Rayleigh scattering technology to assess the condition of fiber optic networks.

The analysis results are presented through graphical displays and event tables, including connector reflection events, fiber microbending non-reflection events, and fiber breakages. It accurately calculates fiber length and loss values. It features a touch-screen color display and buttons, offering users flexibility and ease of operation.

Additionally, it functions as a multifunctional optical meter, integrating a stable light source, optical power meter (OPM), and visible fault locator (VFL). It is ideal for on-site maintenance and troubleshooting, consolidating multiple functions into one device, eliminating the need for additional test equipment.

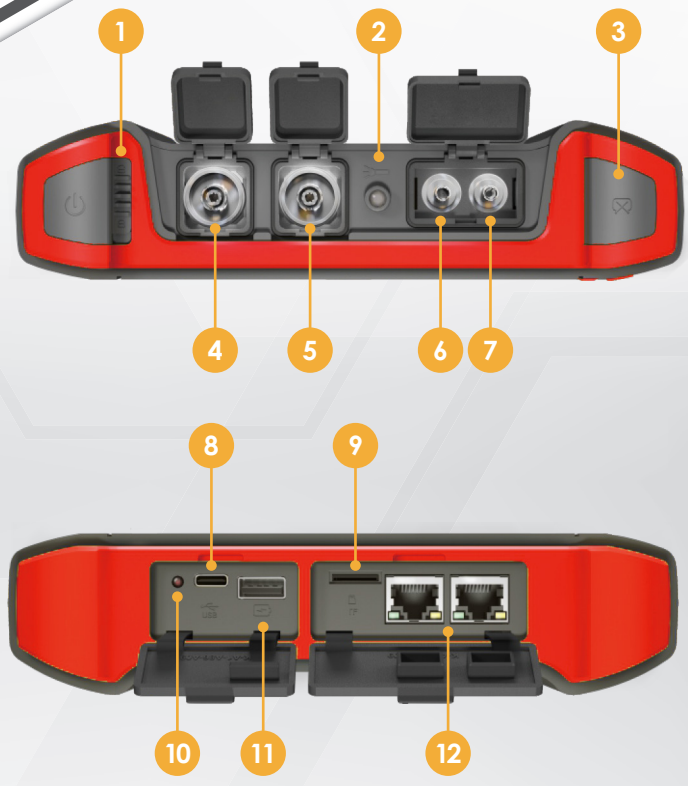
OTDR Pro

OTDR Pro is designed for experienced users, allowing them to define parameters for segments, such as loss, attenuation, return loss, and reflectance.



Appearance

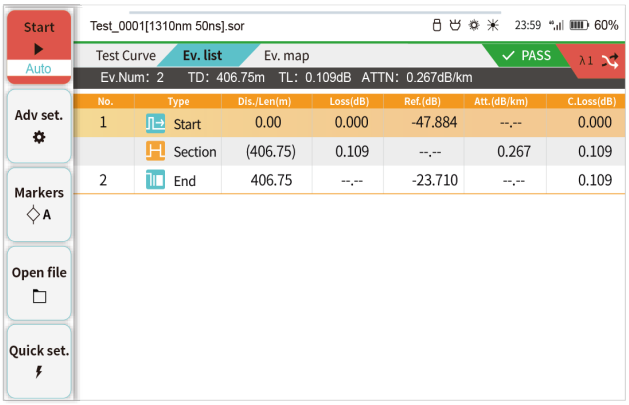
1. Anti-mistouch power switch
2. LED flashlight
3. Screenshot
4. OTDR connector
5. OTDR connector
6. OPM connector(1625nm)
7. VFL connector
8. Type-C charging
9. TF card
10. Charging indicator
11. USB-A connector
12. RJ45 sequence connector

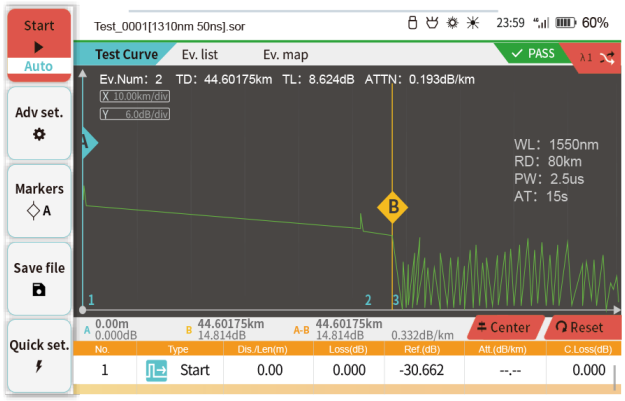


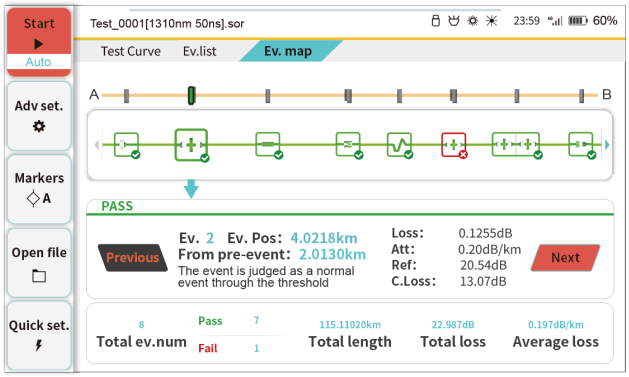
Auto OTDR

Using the Auto OTDR function simplifies testing; just select the wavelength and time, and the measurement completes on its own.











Left Side



Front



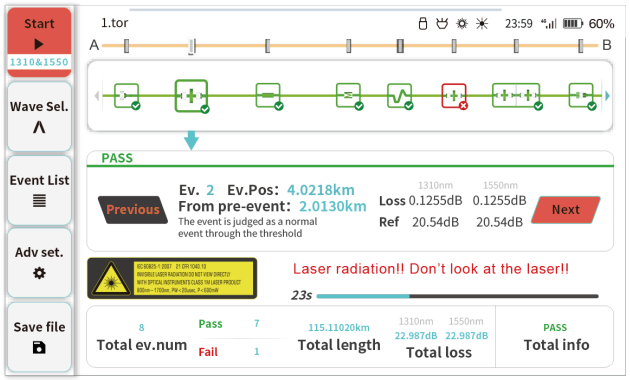
Back

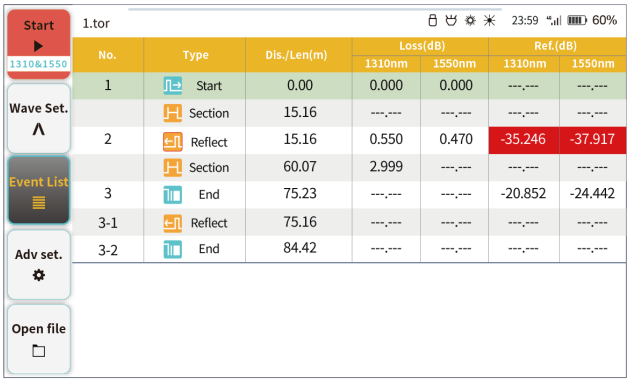


Right side

Smart View

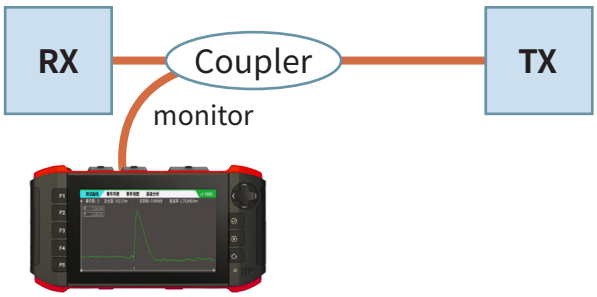
Traditional OTDRs operate with a fixed pulse width, which limits both resolution and dynamic range. Smart View performs measurements using multiple pulse widths over time and merges the results into a single trace. This method resolves the limited dynamic range of narrow pulses and reduces the large dead zones introduced by wider pulses.





In-Service Testing

When a fiber link requires fault isolation or maintenance, an OTDR with in-service testing capability allows technicians to perform measurements without disrupting live signal transmission. This improves diagnostic efficiency, shortens response time, and minimizes service downtime.





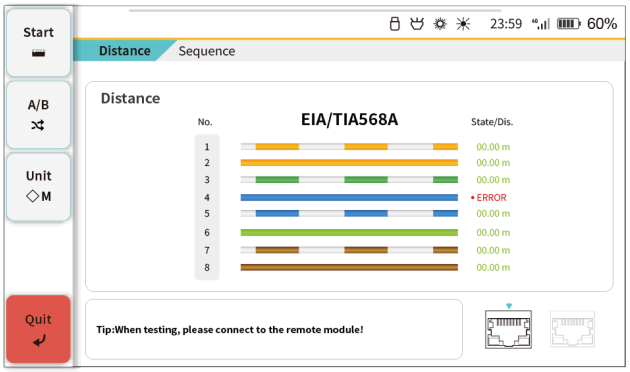
Optical Multi-Meter (OMM)

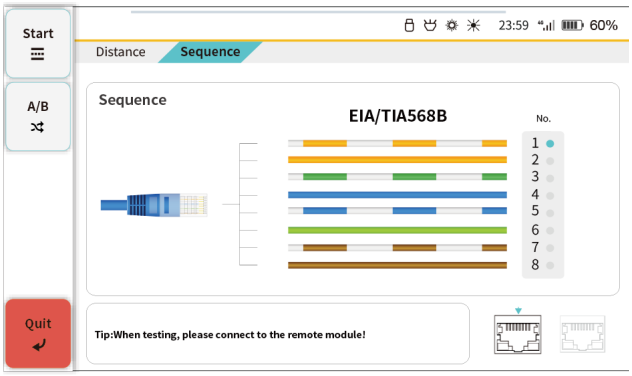
This multi-function meter integrates a stable light source, optical power meter, and VFL, enabling concurrent optical loss measurement by using its light source and optical power meter.



RJ45 Mapper

Pair this with a network tester to verify the network cable pinout and detect wiring faults like miswires or opens.





RJ45 Tracker

Using a tone probe, a regular beeping alert sounds as the probe nears the target network cable.





Specification

OTDR					
Wavelength (nm)	1310 ± 20	1550 ± 20	1610 ± 3	1310 ± 20 1550 ± 20	1310 ± 20 1550 ± 20 1625 ± 3
Dynamic Range (dB)	22 / 26 / 32 (Select one)	20 / 24 / 30 (Select one)	20 / 24 / 30 (Select one)	32/30	32/30/30
Pulse Width(ns)	5 to 20000				
Test Mode	Average, real-time and auto				
Event Dead Zone(m)	2				
Attenuation Dead Zone (m)	8				
Sampling Point	16000				
Distance Accuracy (m)	± (0.8 + 0.005% × distance + Sampling Resolution)				
Distance Range (km)	0.1 to 150				
In-service Testing	N/A	N/A	Applicable	N/A	Applicable to 1625nm only
Storage (SOR)	500				
OTDR/OLS Connector	FC/UPC; SC/UPC; FC/APC; SC/APC (Optional)				

OPM Specification		
Power Range	-70 to +8	-50 to +26
Uncertainty (dB)	≤± 0.2	
Resolution (dB)	0.01	
Wavelength Range (nm)	850,980,1270,1300, 1310,1490,1550,1577, 1625,1650	
Optical Connector	Universal 2.5mm	

VFL Specification	
Wavelength (nm)	650 ± 10
Output Power (mW)	1 or 10 (Optional)
Modulation Output	CW (Continuous Wavelength), pulsed (2Hz)
Optical Connector	Universal 2.5mm

Display
5-inch high-definition touch screen Resolution 800X480

Others	
Power Bank Function	1.USB-A 2.5V / 2A
Ethernet Cable Testing	1.Cable Tracing 2.Cable Mapping 3.Signal Detection

Power	
Battery Capacity (mAh)	5000
Battery Life (hours)	Standby > 9 Test > 5
Power Input	1.Type-C 2.5V / 2A

Environment	
Working Temperature (°C)	0 to +50
Storage Temperature (°C)	-20 to 70
Relative Humidity (%)	5 to 90, Non-condensing

Dimension and Weight	
L x W x H (mm)	190 x 100 x 45
Weight (g)	500

Standard Accessories
Main unit, Network cable tester, Carrying bag, 1-year warranty.

Ordering Information

OTDR

OTDR 01-0X7XXC + A1-030X4 + A1-01X04

Wavelength
A: Single wavelength
B: Dual wavelength
C: Triple wavelength

Output Power (VFL)
6: 1mW
7: 10mW

Power Range (OPM)
3: +8 to -70 dBm
4: +26 to -50 dBm

Wavelength & Dynamic Range

A: Single Wavelength
01: 1310nm, 22dB
02: 1310nm, 26dB
03: 1310nm, 32dB
04: 1550nm, 22dB
05: 1550nm, 26dB
06: 1550nm, 32dB
07: 1610nm, 22dB
08: 1610nm, 26dB
09: 1610nm, 32dB

B: Dual Wavelength
03: 1310/1550nm, 32/30dB

C: Triple wavelength
03: 1310/1550/1625nm, 32/30/30dB

Optical Connector

A0-0014X

OTDR
5: SC/UPC
6: FC/UPC

Note: 1. VFL and OPM with built-in universal 2.5mm tip sleeve.

Network Cable Tester

NCT 01-00650

Example: OTDR 01-0B703C + A1-03044 + A1-01704 + A0-00145 + NCT 01-00650

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