

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 testina
- USB Type-C charging

Application

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

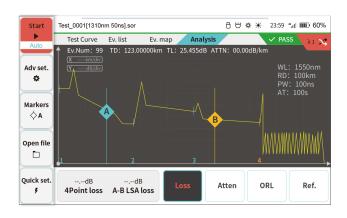
Description

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.

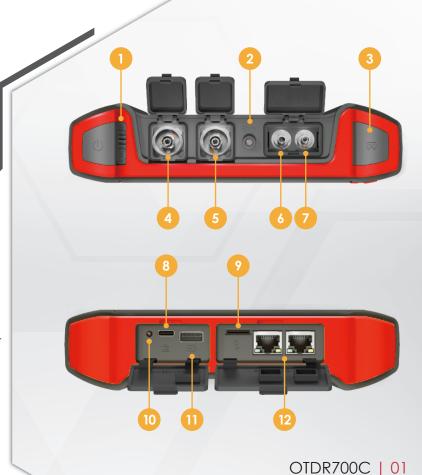
OTDR Pro

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



Appearance

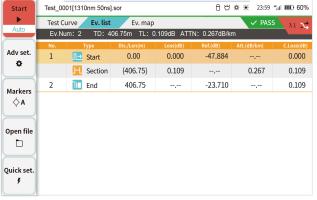
- 1 Anti-mistouch power switch
- 2 LED flashlight
- 3 Screenshot
- 4 OTDR connector
- OTDR connector
- OPM connector(1625nm)
- 7 VFL connector
- 8 Type-C charging
- TF card
- Charging indicator
- USB-A connector
- 12 RJ45 sequence connector

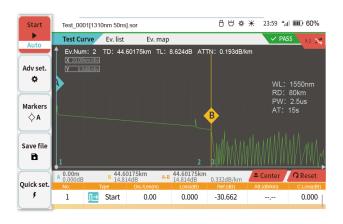


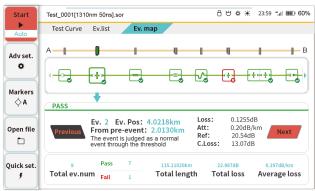
Auto OTDR

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







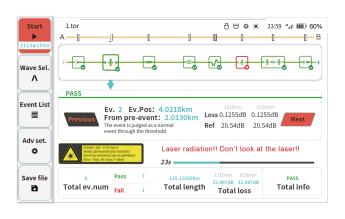


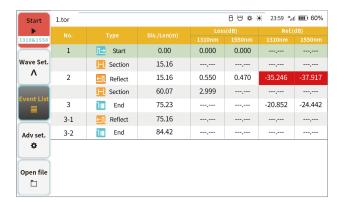




Smart View

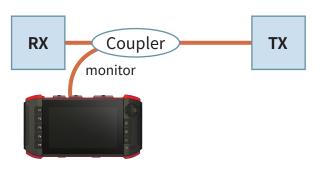
Traditional OTDRs operate with a fixed pulse width, which limits both resolution and dynamic range. Smart View performs measurements using multiple pulse widths over time and merges the results into a single trace. This method resolves the limited dynamic range of narrow pulses and reduces the large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





In-Service Testing

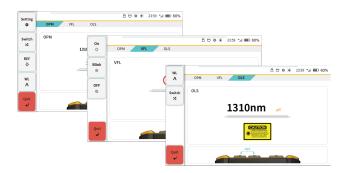
When a fiber link requires fault isolation or maintenance, an OTDR with in-service testing capability allows technicians to perform measurements without disrupting live signal transmission. This improves diagnostic efficiency, shortens response time, and minimizes service downtime.





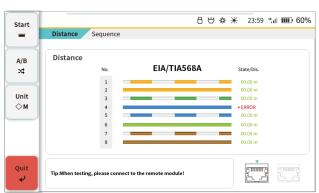
Optical Multi-Meter (OMM)

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.



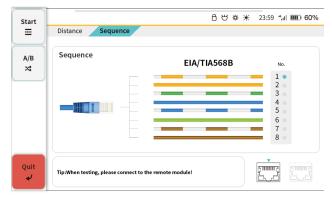
RJ45 Mapper

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)	\pm (0.8 + 0.005% $ imes$ distance + Sampling Resolution)				
Test Distance(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			

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5-inch high-definition touch screen Resolution 800X480

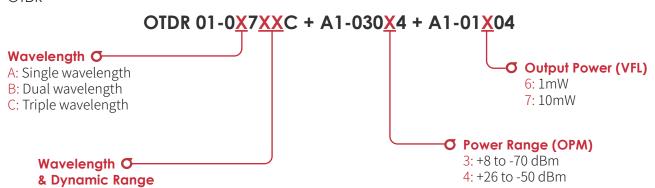
Others	
Power Bank Function	1.USB-A 2.5V / 2A
Ethernet Cable Testing	1.Cable Tracing 2.Cable Mapping 3.Signal Detection

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



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



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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