

SmartOTDR[™] 100AS

The affordable, easy-to-use handheld tester for techs at any level

The lightweight and compact SmartOTDR speeds and optimizes field testing of metro and access networks—with a tailored OTDR interface and automatic analysis that any technician can understand.

With SmartOTDR, generic or user-defined setup configurations eliminate setup errors and maintain results consistency. One-touch operation and a single results window ensure fast and easy measurements, while robust wireless connectivity options increase productivity anywhere.



BENEFITS

- Combines all essential fiber tests in one handheld with visual fault locator (VFL), optical power meter (OPM), and P5000i microscope options
- Simplifies OTDR analysis with Smart Link Mapper (SLM) option
- Upgrades easily in the field
- Automates testing with objective, pass/fail results
- Enhances productivity anywhere with powerful network connectivity options

KEY FEATURES

- Single-/dual-/tri-wavelength versions with 1310/1550 nm and in-service 1625 or 1650 nm wavelengths
- Light, compact, hands-free design includes 5" high-visibility outdoor touch screen
- Integrated CW light source
- PON optimized to test through a 1x128 splitter
- Built-in PON/XG-PON power meter (1490/1550/1578 nm)
- Automated fiber inspection and macrobend detection with pass/fail analysis software
- 3G/4G connectivity via USB, Bluetooth®/ WiFi options
- All-day battery life



POWERFUL CONNECTIVITY

Several connectivity options (3G/4G smartphones via USB and optional Bluetooth/WiFi) enable remote control as well as data and work-order transfers to-and-from tablets, smartphones, and computers. The SmartOTDR quickly resolves field issues in real time, and optional SmartAccess Anywhere (SAA) can open a tunnel in the cloud so a technician can remotely access and operate the instrument. Compatible with a wide range of cloud servers (WebDAV service providers), the SmartOTDR can also instantly share measurement reports using onboard FastReport. pdf report generation.

SmartOTDR includes a one-year trial of cloud-based StrataSync™ for asset, configuration, and test-data management, and to ensure that all instruments have the latest software and options installed.

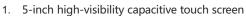


Test and create report

Data and report storage Post-processing Remote coaching

Connectivity features and options enhance workflows





- 2. Charge indicator
- 3. On indicator
- 4. File menu
- 5. Setup menu
- 6. Start/Stop
- 7. Testing indicator
- 8. On/Off
- 9. Home page
- 10. Cancel (switch off functions)







- 11. Direction and validation keys
- 12. Results page
- 13. Loudspeaker
- 14. AC/DC input
- 15. Slave mini USB port
- 16. Visual fault locator (VFL)
- 17. Master USB ports
- 18. OTDR port/continuous light source/power meter
- 19. OTDR live port (in-service test)/PON/XG-PON power meter
- 20. WiFi or Bluetooth options

SPECIFICATIONS (TYPICAL AT 25°C)

General		
Display	5-inch capacitive color touch screen (12.5 cm)	
Display resolution	800 x 480 W VGA	
Interfaces	2x USB 2.0 ports, 1x mini-USB 2.0 port, built-in Bluetooth and WiFi (optional, dongles also available	
Storage	1 GB (20,000 OTDR traces typical)	
Battery	Rechargeable Lithium-polymer battery, up to 20 hours of operation ¹	
Power supply	AC/DC adapter, input 100-240 V AC, 50-60 Hz; 2 A max, output 12 V DC, 24 W	
Electrical safety	En60950 compliant	
Size (HxWxD)	175 x 138 x 57 mm (6.9 x 5.4 x 2.24 in)	
Weight (battery included)	Approx. 0.9 kg (1.98 lb)	
Operating/storage temperature	Operating: -20 to +50°C; storage: -20 to +60°C	
Humidity (noncondensing)	5 to 95%	
OTDR 100 AS		
Laser safety class (21 CFR)	Class 1	
Number of data points	Up to 256,000 data points	
Display range	0.1 km to 260 km	
Sampling resolution	4 cm	
Distance accuracy	(± 1 m) \pm (sampling resolution) $\pm (1.10^{-5}$ x distance), excluding group index uncertainties	
Attenuation resolution	0.001 dB	
Attenuation linearity	±0.04 dB/dB	
Central wavelength ²	1310/1550nm ±20nm	
RMS dynamic range ³	30/30 dB	
Pulse widths	5 ns to 20 μs	
Event dead zone ⁴	1.35m	
Attenuation dead zone⁵	Not available	
CW Light Source ⁹		
Output power level ⁶	–3.5 dBm	
Stability long term (8 hr) ⁷	±0.05 dB	
Built-in Power Meter (optional)		
Operating mode	270, 330, 1 kHz, 2 kHz, and TWINTest	
Power level range	0 to –55 dBm	
Calibrated wavelengths	1310, 1490, 1550, 1625, and 1650 nm	
Measurement accuracy ⁸	±0.5 dB	

- 1. Per Telcordia GR-196-CORE.
- 2. Laser at 25°C and measured at 10 μs.
- 3. The one-way difference between the extrapolated backscattering level at the start of the fiber and the RMS (SNR=1) noise level, after 3 minutes of averaging using the largest pulsewidth.
- 4. Measured at ± 1.5 dB below the peak of an unsaturated reflective event using the shortest pulse width.
- 5. Measured at ± 0.5 dB from the linear regression using a FC/UPC-type reflectance and the shortest pulse width.
- 6. ±1 dB.
- 7. After light source stabilization, warm-up time of 20 min.
- 8. At calibrated wavelengths and at –30 dBm.

ORDERING INFORMATION

SmartOTDR Configurations	Part Number	
Includes a hands-free soft case with neck strap and a stylus for the capacitive touch screen		
SmartOTDR 1550nm AS-range handheld tester with APC connector	E100AS-APC	
dditional OTDR Connector Adapters		
SC universal adapter	EUSCADS	
FC universal adapter	EUFCADS	
.C universal adapter	EULCADS	
Battery		
ithium polymer battery	E10LIPO	
Accessories		
Hands-free soft case with neck strap	E10GLOVE	
Stylus for capacitive touch screen	EHVT-STYLUS	
arge soft carrying case (optional)	E40SCASE1	
12 V car lighter adapter (optional)	E40LIGHTER	
EU/US-to-India type D power adapter (optional)	EINDIADPLUG	
Optional Tools		
/FL with 2.5 mm UPP adapter	E10VFL	
Optical power meter option (same port as OTDR)	E10PM	
MP-60 USB optical power meter with 2.5 and 1.25 mm UPP adapters	MP-60A	
MP-80 USB high-power optical power meter with 2.5 and 1.25 mm UPP adapters	MP-80A	
P5000i digital microscope kit with 7 tips	FBP-MTS-101	
Built-in WiFi	E10WIFI	
Built-in Bluetooth	E10BLUE	
External WiFi USB dongle	E60EWIFI	
External Bluetooth USB dongle	E60EBLUE	
-TTA-SLM	ESMARTFTTA-100	
-TTH-SLM	ESMARTFTTH-100	
SLM E	SMARTLINK-100	
CABLE-SLM	ESMARTCABL-100	
SmartAccess Anywhere S	AA-100-L2	
1310nm wavelength	E113WEB	
Extended dynamic range (35dB at 1550nm/ 37dB at 1310nm if available)	EXTRANGE100WEB	

 $^{^{\}star}$ For ordering in the USA replace E for F in the part number, e.g. E100AS-PC becomes F100AS-PC



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