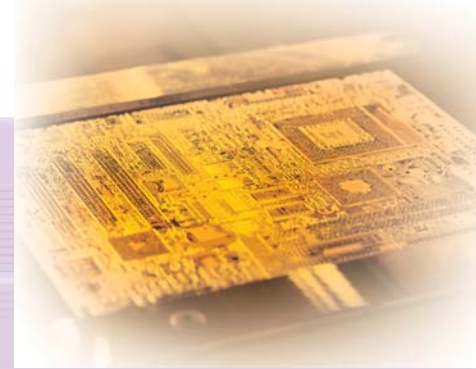


# Plug-and-Play OTDR

## OTDR-30A



CTC Union's OTDR-30A (Optical Time Domain Reflectometer) is an optical fault locator and analysis tool for optical fiber networks. The OTDR features a light, compact, hand-held design with an intelligent user interface that is easy and quick to use. The color LCD display and backlight design makes testing work more comfortable and convenient, whether during daylight or at night.

As a fault locating and analyzing tool, CTC Union's OTDR is much more economical than traditional OTDRs. In addition to its 300 plus internal curve storage, the OTDR-30A can save and transfer the measurement curves data to a PC via serial or USB port for further analysis with Window(r) based "Trace Manager" software. When set in auto measurement mode, the user can active the measurement operations easily by the push of only one button. The OTDR-30A will become an indispensable tool that all network builders, and maintenance personnel of optic fiber networks should have in their tool kit. With portability in mind, the OTDR-30A is ideal for optical fiber installation, maintenance, field construction, and other on-site fault-location analysis.

### Features

- Lightweight, portable and economical
- Easy to use, no tedious learning process
- Fast test, and color LCD displays all measurement information
- Backlight supports testing work at low light conditions
- Large memory capacity (300 test curves)
- RS-232/USB data upload ports
- Trace Manager PC software for previously stored data analysis and reporting
- Dust, damp and shock resistant design for field application
- LCD indicators for battery charge and LD lasing status
- Built-in NiMH rechargeable battery supports 5 hours continuous operation
- Auto off function conserves battery energy
- Low battery Indicator
- Dual wavelength capability (1310 & 1550 nm)

### Applications

- Splicing loss detection
- Fiber attenuation measurement
- Acceptance testing
- Fiber break locating
- Fiber length measurement
- Fiber identification

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## OTDR-30A



### Specifications

#### Physical

- Dimensions: 7.7 x 3.9 x 2.4 inch (196 x 100 x 60mm)
- Weight: 870 gm

#### Power Supply

- NiMH chargeable battery(1600mA/h) /AC adapter, auto recharging
- Battery Life: Support at least 5 hrs continuous operation on one charge, at least 20 hrs on stand-by

#### Power Consumption

- Operating Temperature: -10°C~ 50°C
- Storage Temperature: -20°C~ 70°C
- Relative Humidity: 0 to 95%(non-condensing)

Model	OTDR-30A
Dynamic Range (dB) <sup>(1)</sup>	24 dB
Wavelength (±20nm)	1310/1550
Fiber Type	Single mode
Optical Connection	Single Port
Emitter Type	LD
Connector Type	FC/PC
Selectable range (km)	1.3, 2.5, 5, 10, 20, 40, 80, 120
Selectable pulse width	30ns, 100ns, 275ns, 1µs, 2.5µs
Measurement time	15s, 30s, 1min, 2min, 3min
Attenuation deadzone <sup>(2)</sup>	25m
Event deadzone <sup>(2)</sup>	10m
Sampling Range	1m~10m
Distance Measure Accuracy	$\pm(1\text{ m} + 5 \times 10^{-5} \times \text{Distance} + \text{sampling space})$
Attenuation Detect Accuracy	±0.05 dB/ dB
Reflection Detect Accuracy	±4 dB
Data Storage	300 test traces
Data Interface	RS-232 and USB port

#### Note:

- (1) The dynamic range is measured at maximum pulse width within average time of 3 minutes;  
 (2) Conditions for blind Measurement: Reflection events are within a range of 4km; reflection intensity is less than -35dB; and the blind zone is measured at the minimum pulse width.

### Ordering Information

- **OTDR-30A** OTDR, dual wavelength, single mode
- Instrument (including rechargeable battery), PC Analysis software program, USB drivers and user manual disk, Data transfer cables, AC adapter, Protective cover, Carrying case, Certificate of calibration.

Transmission Units  
E1/T1 CSU/DSUs

Transmission Units  
XDSL

Fiber Media  
Converters

Network Testers

Interface  
Converters

Datacom  
Accessories