

T-BERD 6000 LITE

Compact OTDR



FROST & SULLIVAN

Global Communications
Test & Measurement
Company of the Year Award

Key Features

- Dedicated tool to locate faults and troubleshoot access/FTTx networks
- Simple one-button operation provides full OTDR functionality
- Most compact and highly integrated OTDR unit available yet does not compromise screen size or ease of use
- Performs thorough trace analysis
- Connection check functions available (VFL, power meter & video inspection probe)
- Exceeds Telcordia GR-196-CORE specifications (including ruggedness, drop testing, and extended battery life)
- Continuous wave (CW) laser source functionality

The JDSU T-BERD 6000 LITE Compact OTDR is an optimized optical test solution for Access/FTTx networks.

Compact and Highly Integrated

The advanced design of the T-BERD 6000 LITE keeps it lightweight, compact and flexible:

- Simple Optical Fault Locator
- Advanced Optical Time Domain Reflectometer (OTDR)
- On-board "Connection Checker" (optional VFL, power meter, continuous wave light source, and video inspection probe)

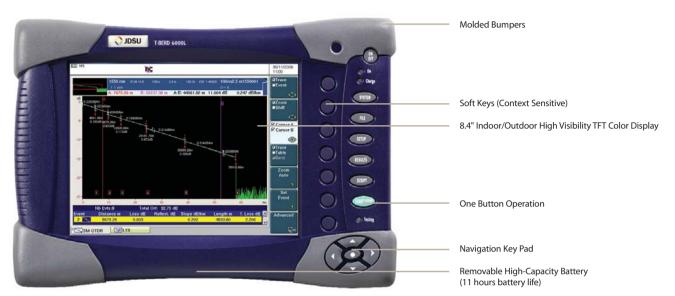
Field-Test Friendly

The T-BERD 6000 LITE is ideally suited for construction, turn-up, and maintenance of FTTx fiber networks. The unit features the best screen size in its class and is built for extended use in demanding conditions with a shock-resistant housing and long battery life.

Multi-Function

The T-BERD 6000 LITE performs critical tasks for maintaining efficient and reliable access/FTTx networks. For optimum performance, optical connectors must be clean, fibers must be free of macrobends, and technicians must be able to localize damage to patch cords and local runs. The T-BERD 6000 LITE Connection Check features provide a comprehensive localized test suite including Visual Fault Location (VFL), Power Meter, Continuous Wave Light Source, and Video Inspection Probe.

T-BERD 6000 LITE Unit Description

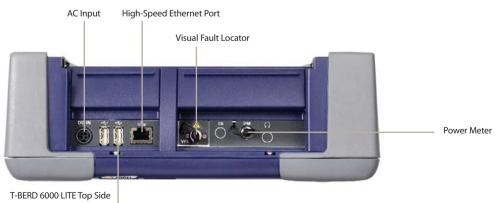


T-BERD 6000 LITE Front Panel



T-BERD 6000 LITE Right Side

OTDR connector with universal adapter for any fiber type (Continuous wave light source on option)



(2) USB Ports (Video probe, USB stick, mouse, keyboard on option)

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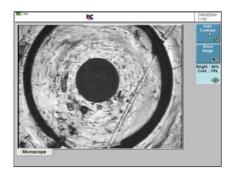
Precise Fault location



Trace and table displayed simultaneously



Macrobending detection



Videoscope inspection display

Compact OTDR Solution

Fast and Precise Fault Location

The T-BERD 6000 LITE troubleshoots easily any break which could degrade fiber link quality. With its advanced and proprietary software, it enables any operator, with one key press, to instantly pinpoint any fault on the network. Its 4 cm resolution and up to 128,000 acquisition points enables the unit to provide the most accurate distance on the market.



- Fast detection
- Precise fault location
- One button automation
- No specific settings required
- Distance, loss and ORL measurements

Ideal for Construction and Maintenance

During the construction or repair of an FTTx network, the T-BERD 6000 LITE is the most compact unit enabling to display under one screen all the relevant information required for fiber qualification. The trace and table are displayed simultaneously, with direct access to cursors and zoom. All features found on dedicated, large construction OTDR units are available in the compact T-BERD 6000 LITE.

- Fully automatic or manual modes
- Templates for multi-fiber acquisitions
- Automatic, semi-automatic or manual measurements
- Multitrace display for trace comparison
- Auto filenaming and auto storage with comprehensive cable and fiber identifiers
- Large keyboard for easy edition

Easy Macrobend Detection

Macrobending is a temporary fault in the network which induces attenuation and reduces the optical power budget. Macrobends are sometimes mixed up with splices and a correct detection is important. The T-BERD 6000 LITE includes a new software feature which uses wavelength sensitivity to macrobends. It detects precisely and quickly any bending so that it becomes easy to remove from the network.



Connection checker

On a fiber link, the connectors are the most important elements to be checked. For this reason, the T-BERD 6000 LITE is provided with a Connection Check option, which can include a Visual Fault Locator, a Power Meter and a Video Inspection Probe. The large screen of the T-BERD 6000 LITE enables easy analysis of the connector quality.



General specifications

Display

TFT color, 8.4", LCD 800 x 600, high visibility (standard)

Storage and I/O Interfaces

Internal memory 1000 test results

2x USB, 1x RJ-45 Ethernet

Power Supply

Removable battery Battery type AC/DC adapter Input 100-240 V, 50-60 Hz, Output 19V DC/3.1 A Up to 11 OTDR hours with standard Operation time display Telcordia GR-196-CORE

Size and Weight

Size (I x h x w) 285 x 195 x 93 mm /11.2 x 7.7 x 3.7 in Weight 3.4 kg / 7.5 lb

Environmental Specifications

Operating temperature range (no options)

-20° C to +50° C (-4° F to 122° F)

Operating temperature range (all options)

 0° C to $+40^{\circ}$ C (32° F to 104° F) Storage temperature range -20° C to $+60^{\circ}$ C (-4° F to 140° F) Humidity, non-condensing

OTDR Specifications

Wavelengths ¹	1310/1550 nm ±20 nm
Dynamic Range ² (1310/1550 nm)	32/30 dB
Event dead zone ³	2.5 m
Attenuation dead zone4	8 m
Sampling resolution	from 4 cm
Nb of acquisition points	up to 128 000
Attenuation linearity	±0.03 dB/dB
Reflectance accuracy	±2 dB
Distance accuracy	

±1m ±sampling resolution ±1.10⁻⁵x distance Distance range up to 260 km

Refresh time from 0.1 s

Laser at 25° C and measured at 10 μs

²The one way difference between the extrapolated backscattering level at the start of the fiber and the RMS noise level, after 3 minutes averaging.

3Measured at ±1.5 dB down from the peak of an unsaturated reflective event.

4Measured at ±0.5 dB from the linear regression using a FC/PC type reflectance.

Optical Interfaces (optional) - Typical 25° C

Power meter	
Power level	+10 to -55 dBm
Calibrated wavelengths	850, 1310, and 1550 nm
Connector type	Universal push/pull (UPP)
VFL	
Wavelength	635 nm ±15 nm
Output power level	<1 mW
Laser safety	Class 2 laser
Connector type	Universal push/pull (UPP)
Video Inspection Probe	

250X or 400X, through the USB port

E810TDRLS

Ordering information

Magnification

Base Unit T-BERD 6000L 32/30 dB 1310/1550 nm 0TDR FTB6026VSRF

Continuous source option Optical Interfaces (optional)

VFL with UPP connector	E80VFL	
Optical power meter with UPP connector (2.5 mm provided as		
standard)	E80PM	
Optical Inspection Probe 250x through USB	EFSCOPE250	
Optical Inspection Probe 400x through USB	EFSCOPE400	

Application Software Optical FiberTrace software (for post-analysis) Optical FiberCable software (for acceptance report generation) E0FS200

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