T-BERD®/MTS-2000 Handheld Modular Test Set
Fiber Optic Multi-Test Tool for Smarter and Faster Field Testing

Key Benefits

- Certify fiber physical layer on FTTx/PON, Access, Metro and Enterprise networks.

- Ensure highest quality connectorizing, splicing and turn-up of new fiber links.

- Improve workflow with hands-free solution driving best practices to IEC standards.

- Smarter and faster field testing with simple setup and instantaneous pass/fail results.

- Boost productivity with improved report generation and flexible connectivity.

Key Features

- Large 5-inch touch screen display
- Field Installable Modules
- Wide range of OTDR modules including QUAD and PON
- FiberComplete™ automated IL/ORL, PON power meter & CWDM analyzer
- Automated Fiber Inspection and IEC pass/fail Analysis
- Built-in optical power meter, VFL, and optical talk set (optional)
- New-generation Lithium Polymer (LiPo) battery for 8 hours operation
- Flexible connectivity with Ethernet, USB, Bluetooth and WiFi capabilities
- Special hands-free bag as standard
- Cross-compatibility with T-BERD®/MTS-4000

Cost, workflow, quality, network performance and customer experience are critical for success for today's fiber optic networks. Selecting the right test tools has become a key element to meet these needs.

The JDSU T-BERD/MTS-2000 is a handheld multi-test platform that provides field technicians with a single piece of equipment to install, turn-up and maintain these networks to the highest standards.

Innovative in design with hands-free bag, all the essential fiber test tools are close at hand, whatever the job or location. A large color screen with graphical user interface drives simplicity of operation and good workflow in the field.

Test capabilities include a whole range OTDRs – multimode, singlemode, and PON-optimized – FiberComplete™ for automated IL/ORL & fault finding and connector end face pass/fail analysis to IEC standards.

Turn-up and troubleshooting of PON and CWDM networks is also enabled with the PON power meter and CWDM-OSA modules.
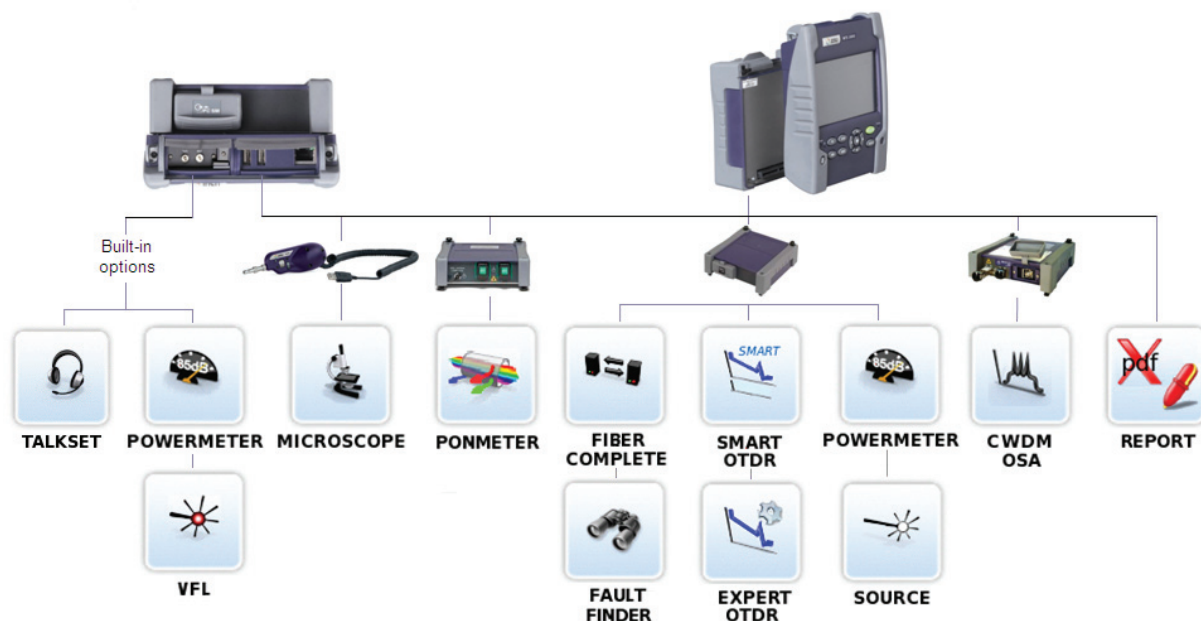
All the test tools close at hand

2

Wide range of applications for maximum flexibility

The T-BERD/MTS-2000 provides the largest range of test capabilities in a handheld unit. The modular design allows service providers the maximum flexibility to scale investment and evolve with the network.
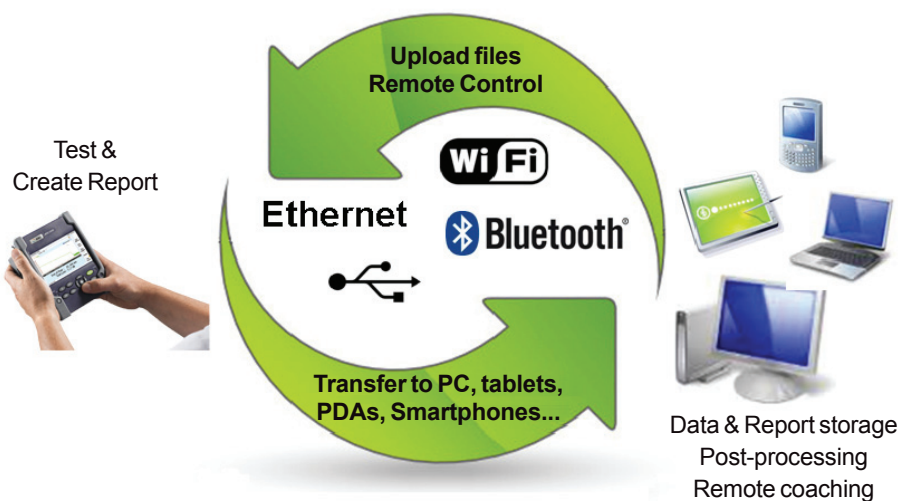
The T-BERD/MTS-2000 supports the whole range of essential fiber analysis tools, such as connection inspection, connection check, source, power meter, Optical Return Loss (ORL), OTDR, PON selective Power Meter, and CWDM Optical Spectrum Analyser.

Application modules are common to the T-BERD/MTS-4000 and both instruments can operate together.

Boosted productivity with seamless data workflow

The T-BERD/MTS-2000 integrates various communication capabilities allowing remote control, data and setup upload/download and report transfer. The unit has one high-speed 1G Ethernet port, three USB ports, and optional WiFi and Bluetooth network connections.

3

Designed for best operational efficiency

❶ 5" Touchscreen
❷ Charge indicator
❸ On indicator
❹ File Menu
❺ Setup Menu
❻ Start/Stop
❼ Testing indicator
❽ On/Off
❾ Home Page
❿ Cancel
⓫ Direction & Valid keys

⓬ Results Page
⓭ Loudspeaker
⓮ Headset Jack
⓯ AC/DC Input
⓰ Slave mini USB port
⓱ RJ45 connector
⓲ Master USB ports (2)
⓳ Power Meter port
⓴ VFL or Talkset port
㉑ Wifi & Bluetooth options
㉒ Stylus for touchscreen

4

Preliminary Specifications

General (Typical at 25°C)

Display	5-inch TFT color touch screen (12.5mm)
	Resolution 800 x 480 WVGA
Interfaces	Two USB2.0 ports
	One mini-USB2.0 port
	RJ-45 LAN 10/100/1000Mbit/s
	Built-in Bluetooth (optional)
	Built-in Wifi 802.11 b/g/n (optional)
Internal memory	1GB (128MB for storage)
Battery	Rechargeable lithium-polymer battery
	8 hours of operation as per Telcordia GR-196-CORE
Power supply	AC/DC adapter, input 100-250VAC,
	50-60Hz; 2.5A max, output 12VDC, 25W
	Electrical safety: EN60950 compliant
Size (H x W x D)	175mm x 138mm x 80mm with module
	(6.9in x 5.4in x 3.2in)
Weight	0.864 kg with battery (1.89 lbs)
	1.21 kg with battery and LM OTDR (2.67 lbs)
Temperature	Operating: -20°C to +50°C (-4°F to 122°F)
	Storage: -20°C to +60°C (-4°F to 140°F)
Relative humidity	0% to 95% non-condensing

Built-in Power Meter Specification[1]

Calibrated wavelengths	850/1310/1490/1550/ 1625/1650
Wavelength range	800 to 1650nm in steps of 1 nm
Accuracy[2]	+/- 0.2 dB
Measurement range[3]	+5 to −50 dBm
Maximum resolution	0.01 dB/0.01nW
Connector type	Universal Push Pull (UPP)

(1) At 25°C, after 20 minutes stabilization time and after zero setting.
(2) At calibrated wavelength (except 1650nm)
(3) -45dBm from 800 to 1250 nm

Built-in Visual Fault Locator (VFL)

Wavelength	650 nm
Emission mode	CW, 1Hz
Laser class	Class 2 as per standards EN60825-1
	and FDA21 CFR Part 1040.10

Built-in Talkset

Dynamic range	32dB (typical)
Connector types	SC, FC, and Universal push/pull (UPP)
	(three adapters included)

Ordering information

T -BERD/MTS-2000 Handheld Modular Test Set	ETB2000T/ EM2000T
Includes: touch screen, hands-free soft case, shoulder strap, power supply with 5 adaptable plugs (US, Europe, UK, Australia, Japan), one USB cable, one Getting Started manual	
Built-in Optical Power Meter and VFL, with 2.5 mm UPP Connectors	E20PMVFL
Built-in Optical Power Meter with 2.5 mm UPP Connector	E20PM
Built-in Visual Fault Locator (VFL) with 2.5 mm UPP Connector	E20VFL
Built-in Optical Power Meter and Talk Set	E20TSPM
Bluetooth Option for 2000 Handheld Base Unit	E20BLUE
USB2.0 Digital Video Scope Kit (P5000i), including 7 tips and soft case	EDFSCOPE5Ki
Soft Carrying Case for T-BERD/MTS-2000/4000	E40SCASE1
Hard Carrying Case for T-BERD/MTS-2000 Modular Test Set	E20HCASE
12V Car Adapter for T-BERD/MTS-2000/4000	E40LIGHTER

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