

# T-BERD®/MTS-2000 Handheld Modular Test Set

## Fiber Optic Multi-Test Tool for Smarter, 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, and CWDM analyzer**
- **Automated fiber inspection and IEC pass/fail analysis**
- **Optional built-in optical power meter, visual fault locator (VFL), and optical talk set**
- **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-compatible with T-BERD/MTS-4000**

Costs, workflow, quality, network performance, and customer experience are critical for the success of today's fiber optic networks. Selecting the right test tools has become key toward meeting these needs.

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

Its innovative design and hands-free bag ensure that all essential fiber test tools are close at hand, whatever the job or location. A large color screen with graphical user interface drives simple operation and optimal workflow in the field.

Test capabilities include a range of OTDR modules for multimode and single-mode testing, as well as a range of FiberComplete™ modules for automated Insertion Loss/Optical Return Loss (IL/ORL), and fault finding. Both OTDR and FiberComplete modules are passive optical network (PON) optimized. The unit is also ready for connector end face pass/fail analysis to IEC standards with a digital analysis microscope.

The PON power meter and CWDM-OSA modules also enable turn-up and troubleshooting of PON and coarse wavelength division multiplexing (CWDM) networks.

### All the test tools close at hand

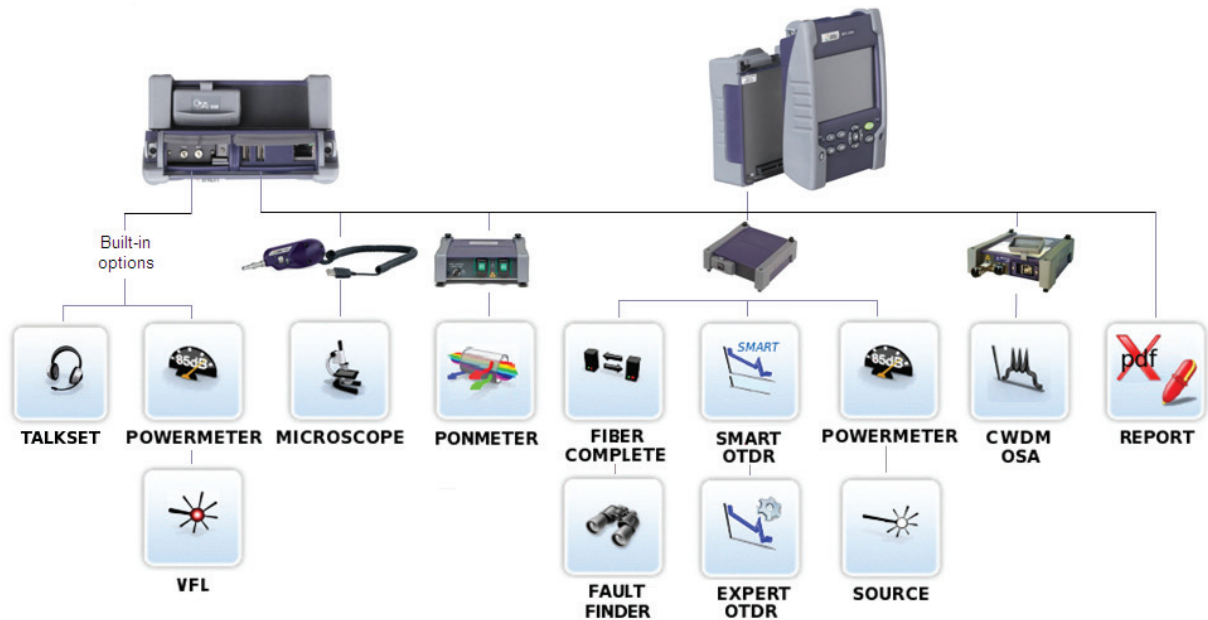


## 2

### Widest Range of Applications for Maximum Flexibility

The T-BERD/MTS-2000 provides the largest range of test capabilities offered in one handheld unit. The modular design allows service providers the maximum flexibility to scale their investment and evolve with the growth of their network.

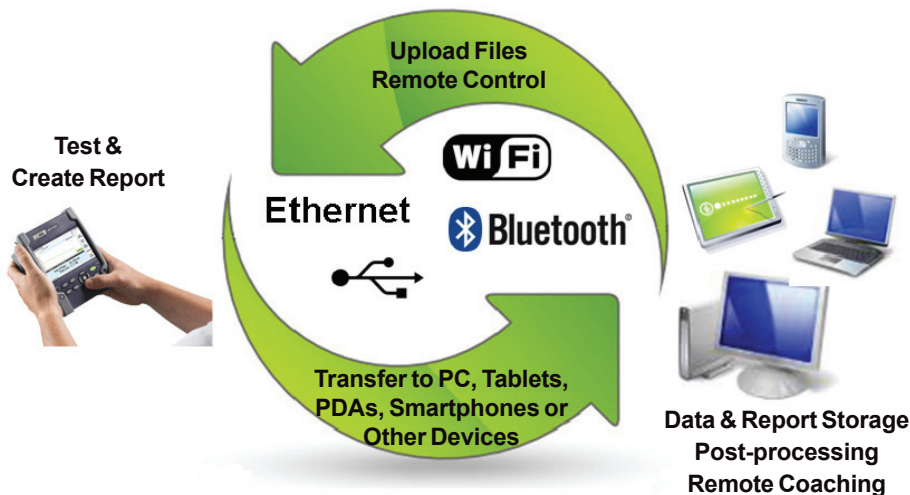
The T-BERD/MTS-2000 supports the whole range of essential fiber analysis tools, such as connection inspection, connection check, source, power meter, ORL, OTDR, PON selective power meter, and CWDM optical spectrum analyzer.



Application modules used with the T-BERD/MTS-2000 can also be used with the T-BERD/MTS-4000, and the two products are interoperable.

### Boosted Productivity with Seamless Data Workflow

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



**Design of the T-BERD/MTS-2000 optimizes operational efficiency**



- ① 5-inch touch screen
- 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
- ⑪ Direction & Validation keys
- ⑫ Results page
- ⑬ Loudspeaker
- ⑭ Headset jack
- ⑮ AC/DC input
- ⑯ Slave mini USB port
- ⑰ RJ45 connector
- ⑱ Master USB ports (2)
- ⑲ Power meter port
- ⑳ VFL or Talk set port
- ㉑ WiFi & Bluetooth
- ㉒ Stylus for touchscreen



## 4

## Specifications

**General (Typical at 25°C)**

Display	5-inch TFT color touch screen (12.5cm) Resolution 800 x 480 WVGA
Interfaces	Two USB2.0 ports One mini-USB2.0 port RJ-45 LAN 10/100/1000Mbps 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 100-250 VAC, 50-60Hz; 2.5A max, output 12VDC, 25W Electrical safety: EN60950-compliant
Size with module (H x W x D)	175 x 138 x 80mm (6.9 x 5.4 x 3.2in)
Weight	with battery 0.864 kg (1.89 lbs) with battery and LM OTDR 1.21 kg (2.67 lbs)
Temperature	Operating: -20 to +50°C (-4 to 122°F) Storage: -20 to +60°C (-4 to 140°F)
Humidity non-condensing	95%

**Built-in Power Meter Specifications<sup>(1)</sup>**

Calibrated wavelengths	850/1310/1490/1550/ 1625/1650
Wavelength range	800 to 1650 nm in 1 nm steps
Accuracy <sup>(2)</sup>	±0.2 dB
Measurement range <sup>(3)</sup>	+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 Talk Set**

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

**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

**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 T-BERD/MTS-2000 Modular Test Set	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

**Test & Measurement Regional Sales**

<b>NORTH AMERICA</b> TEL: 1 866 228 3762 FAX: +1 301 353 9216	<b>LATIN AMERICA</b> TEL: +1 954 688 5660 FAX: +1 954 345 4668	<b>ASIA PACIFIC</b> TEL: +852 2892 0990 FAX: +852 2892 0770	<b>EMEA</b> TEL: +49 7121 86 2222 FAX: +49 7121 86 1222	<b>WEBSITE: <a href="http://www.jdsu.com/test">www.jdsu.com/test</a></b>
---	--	---	---	--