

# T-BERD®/MTS-2000

The industry's first hands-free comprehensive fiber tester

## Reference Guide of Distribution Packages



Installing or troubleshooting today's fiber networks requires testing solutions that are easy to use, easy to carry, yet still meet your testing needs.

**The T-BERD/MTS-2000 the perfect tool for:**

- service providers
- installers/contractors
- private enterprise
- municipalities

**It addresses a broad range of applications:**

- enterprise — LAN, WAN, and data centers
- telecom — metro and access/FTTH
- CATV backhaul and FTTN
- mobile deployments (backhaul and cell tower)
- government, aerospace, and defense



Hands-free operation

### Hands-free

The glove operating sleeve lets you hang the superlight unit around your neck (includes a waist strap) and also has operationally accessible pockets so you can have the tools you need for the job at your fingertips (cleaning stick, VFL, inspection probe, tips, and accessories)

### Easy to use

Testing is as easy as pushing a single button. Wizards step you through referencing and inspection and even offer automatic analysis and pass-fail results. Generate results reports on demand with the Fast Report button (PDF).

A 5-inch high-resolution color display is the largest screen available today on similar compact testers. The standard touch screen makes it even easier to use.

### Modular tool means flexibility

Its modular format lets you do a lot — inspection, OTDR, FiberComplete (Auto-IL/ORL/OTDR), and more.

### Priced to optimize your expenditure

Easy on your budget yet provides best-in-class performance. We offer several packages that are priced right for all your testing needs.



One-button operation

## FiberComplete — Push one button to perform link IL/ORL and OTDR measurements

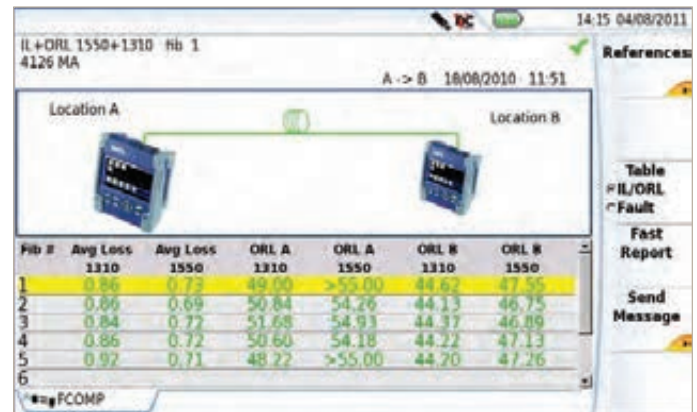
FiberComplete introduces a new hands-free approach to comprehensive fiber link acceptance testing and troubleshooting. It minimizes the need for operator training with much easier, faster ways to qualify and maintain single-mode fiber links.

FiberComplete combines the functions of an IL/ORL bidirectional tester and an OTDR (or fault finder), all in one test module with one optical interface.

This enables you to make one connection at each end of the link to automatically perform the test and have the results automatically stored in memory. This unit's flexibility enables it to function as a broadband power meter, inspection probe, test source, OTDR (and/or fault finder), loss tester, optical return loss tester, and ORL or IL troubleshooter.

Technicians often are perplexed by the complexity of referencing IL and ORL prior to the start of a job. FiberComplete gives operators a step-by-step referencing wizard so they can just select a reference and follow the instructions on the screen.

Our inspection feature (sold separately) provides industry-leading connector inspection performance using digital technology that also provides automatic pass/fail results to IEC standards.



The screenshot shows the FiberComplete software interface. At the top, it displays 'IL+ORL 1550+1310 Fib 1' and '4126 MA'. Below this, a diagram shows 'Location A' and 'Location B' connected by a fiber link. A table of results is displayed below the diagram. The table has columns for 'Fib #', 'Avg Loss 1310', 'Avg Loss 1550', 'ORL A 1310', 'ORL A 1550', 'ORL B 1310', and 'ORL B 1550'. The results are as follows:

Fib #	Avg Loss 1310	Avg Loss 1550	ORL A 1310	ORL A 1550	ORL B 1310	ORL B 1550
1	0.66	0.72	49.00	>55.00	44.62	47.55
2	0.66	0.69	50.84	54.26	44.13	46.75
3	0.84	0.72	51.68	54.93	44.37	46.89
4	0.86	0.72	50.60	54.18	44.22	47.13
5	0.92	0.71	48.22	>55.00	44.20	47.26
6						

On the right side of the interface, there are buttons for 'References', 'Table', 'IL/ORL', 'Fault', 'Fast Report', and 'Send Message'.



## Ordering information

### T-BERD 2000 Package Descriptions

Order Number	Description
TB2-DIS-2WLM	Single-mode OTDR
TB2-DIS-MM	Multimode OTDR
TB2-DIS-QUAD	Quad OTDR
TB2-FCOMP2-FF	FiberComplete with FaultFinder (automated bidirectional loss, ORL, and FaultFinder)
TB2-FCOMP2-MA	FiberComplete with OTDR (automated bidirectional loss, ORL, and OTDR)

Package Contents QuickGuide	TB2-DIS-2WLM	TB2-DIS-MM	TB2-DIS-QUAD	TB2-FCOMP2-FF	TB2-FCOMP2-MA
T-BERD/MTS-2000 with 5-inch touch screen color display	√	√	√	√	√
Single-mode operation @ 1310/1550 nm	√		√	√	√
Multimode operation @ 850/1300 nm		√	√		
RMS dynamic range	34/32 dB	26/24 dB	MM: 26/24 dB SM: 37/35 dB	N/A	37/35 dB
Dead zones (EDZ/ADZ)	1/4 m	0.8/4 m	MM: 0.8/4 m SM: 0.9/4 m	N/A	0.9/4 m
Broadband power meter (on mainframe E20PM)				√	√
Optical power meter (in optics module E410TDRPM)	√	√	√		
Integrated light source (in optics module E410TDRLS)	√	√	√	√	√
Optical loss measurement	Using OTDR <sup>3</sup>			√ <sup>1</sup>	√ <sup>1</sup>
Optical return loss measurement				√ <sup>1,2</sup>	√ <sup>1,2</sup>
Distance measurement				√	√
OTDR	√	√	√		√
Fault finding	√	√	√	√	√
Tier-2 enterprise network certification	√	√	√		
SC-to-SC mating sleeve				√	√
SC/UPC to SC/APC 3 m patch cord				√	√
SC/UPC to SC/UPC 3m patch cord				√	√
Nonreflective terminators for zero ORL referencing				√	√
Connector end-face inspection and analysis digital USB probe (FBP-MTS-101)	Not included in packages. Must be purchased separately.				

<sup>1</sup> Functions are selectable for unidirectional or bidirectional testing.

<sup>2</sup> Unidirectional ORL measurement can be performed with FiberComplete using one test unit.

<sup>3</sup> Optical loss, return loss, and distance measurements are performed within the OTDR function, however, at a lower accuracy than with FiberComplete.

# T-BERD/MTS-2000 Reference Guide of Distribution Packages

## Ordering information (Cont'd.)

### All packages include

Hands-free glove case (includes neck and belt strap and pockets for inspection probe, cleaning stick, and accessories)  
Large soft carrying case (E40SCASE1)  
Interchangeable SC/PC adapters (EUNIPCSC)  
AC power supply/charger adapter  
Users' Manual on USB memory stick  
Pass/Fail inspection software (P5000i inspection probe available separately)

### Accessories

Order number	Description
FBP-MTS-101	Connector Inspection and Analysis Kit, includes P5000i, FiberCheckPro™ Software, and 7 inspection tips
FCR-CLN-01	Fiber-cleaning Consumables Kit
E20PM	Broadband Power Meter Option with 2.5 mm ferrule universal connector adapter
E20PMVFL	Built-in Broadband Power Meter and VFL Option with 2.5 mm UPP connector adapter
FFL-050	Hand-held VFL (separate VFL fits in hands-free accessory pouch)
EUSCAD	Additional SC universal adapter (for optics module)
EULCAD	Additional LC universal adapter (for optics module)
EUSTAD	Additional ST universal adapter (for optics module)
E40SCASE1	Larger soft carrying case
E20HCASE	Hard carrying case
EOFS100	Optical Fiber Trace software (EOFS-110 free viewer available online)
EOFS200	Optical Fiber Cable software
2256/90.03	1.25 mm ferrule universal connector adapter (for E20PM and E20PMVFL options)
ENRTERMLC	LC UPC and APC nonreflective terminator kit (incl terminators and connector sleeve)
ENRTERMSC	SC UPC and APC nonreflective terminator kit (incl terminators and connector sleeve)
EFJEF50CONSCPC	Encircled flux mode controller for 50 µm MM fiber – SCPC (per IEC 61280-4-1)
EFJEF50CONFPC	Encircled flux mode controller for 50 µm MM fiber – LCPC (per IEC 61280-4-1)
ENRTERMKIT	Nonreflective Optical Terminator Kit, includes SC/UPC, SC/APC, FC/UPC, FC/APC, LC/UPC, and LC/APC nonreflective terminators and corresponding mating sleeves



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