



Designed with the installers and operators of enterprise networks in mind, the FiberXpert OTDR 5000 measures, documents and troubleshoots fiber optic networks. The FiberXpert OTDR 5000 provides very high resolution with one of the shortest dead zones available for testing multimode and singlemode fibers, thus enabling measurement of very short fiber links. Automatic analysis features simplify the measurement tasks.

IT Networks



FIBER OPTIC CABLING CERTIFIER

Characteristics

- Optical Time Domain Reflectometer (OTDR) for 850/1300nm multimode or combined for 850/1300nm multimode and 1310/1550nm singlemode
- Standards compliant Tier 2 measurement of fiber optic cabling
- Automatic Pass/Fail analysis of the test results according to the limits specified by TIA/IEC
- Display of the OTDR trace in a graphical format for a length-dependent analysis of all events for reflection and attenuation
- All fiber link events and analysis listed in a table of results
- Automatic macro-bend detection
- No need to understand graphical OTDR traces anymore thanks to icon based SmartLink
- Built-in optical loss test set
- Optional fiber inspection probe
- Large color LCD touch screen
- Generation of professional reports with the central eXport evaluation software

Easy handling and analysis

A special carrying case with shoulder strap allows for a hands-free operation and eliminates the need to mount the measurement tool testing. The results are displayed on the 5 inch touch screen and can be analyzed and saved conveniently. Featuring an automatic event detection, all events on a fiber optic link are automatically displayed with a Pass/Fail evaluation.

Expanded measurement capabilities

Additional measurement functions such as attenuation measurement and an optical power meter provide for an accurate measurement of the total link loss and of the output power of active equipment such as switches. The optional fiber inspection microscope enables you to document the quality of the connector end-face after installation. This is a helpful feature, especially in instances of faults or warranty claims.

Consolidate the measurement results of your projects in one place

Cabling projects usually have both fiber optic and copper cabling links. eXport software manages the test results of both FiberXpert and WireXpert, consolidating all results of your project in one software package.

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Contents of the kit

FiberXpert OTDR 5000 Quad
Multimode/Singlemode

850/1300/1310/1550nm Optical Time Domain Reflectometer

Includes main measurement unit, SC compatible multimode module, SC compatible singlemode module, Li-Polymer batteries, power supplies, soft case with shoulder strap, hard carry case, calibration certificate

FiberXpert OTDR 5000

Multimode

850/1300nm Optical Time Domain Reflectometer

Includes main measurement unit, SC compatible multimode module, Li-Polymer batteries, power supplies, soft case with shoulder strap, hard carry case, calibration certificate

FIBER MICROSCOPE

Before testing any fiber run and before plugging connectors together, you should check to ensure they are clean. Dirt will degrade data transfer or can permanently damage the contact area. With the fiber microscope from Softing IT Networks you can quickly and easily check connector ends and automatically evaluate to IEC 61300-3-35.

The USB interface allows connection to WireXpert or FiberXpert.

In summary:

- One-click test and evaluation of fiber surfaces
- Automatic evaluation conforming to IEC 61300-3-35
- Compatible with WireXpert and FiberXpert
- Adapters for common fibre connectors



FIBERXPRT LAUNCH CORD

Multimode and singlemode launch cords neatly arranged and ready to use FiberXpert launch cords ensure order in the measuring case. The launch cords are coiled gently and can be easily rolled up and stored. The fiber itself is protected and can be stored in the hard case of the FiberXpert OTDR 5000.

Features:

- Optimum protection for your launch cord
- Multimode and singlemode launch cords available
- Common connector combinations available
- Heavy Duty steel armored version available



General (Typical at 25°C)

Weight	1.26kg (2.8lb)
Dimensions (w × h × d)	128 x 134 x 40mm (5 x 5.28 x 1.58in)

Optical Interfaces

Interchangeable optical connectors	FC, SC, DIN, and ST
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Technical Characteristics

Laser safety class (21 CFR)	Class 1
Distance units	Kilometers, feet, and miles
Group index range	1.300000 to 1.700000 in 0.00001 steps
Number of data points	Up to 128,000 data points
Distance measurement	Automatic or dual cursor
Display range	3.25m to 260km
Cursor resolution	1cm
Sampling resolution	4cm
Accuracy	± 1m ± 10 ⁻⁵ x distance ± sampling resolution (Excluding group index uncertainties)

Attenuation Measurement

Automatic, manual, 2-point, 5-point, and LSA	
Display range	1.25dB to 55dB
Display resolution	0.001dB
Cursor resolution	0.001dB
Linearity	±0.03dB/dB
Threshold	0.01 to 5.99dB in 0.01dB steps

Reflectance/ORL Measurements

Reflectance accuracy	±2dB
Display resolution	0.01dB
Threshold	-11 to -99dB in 1dB steps

CW Source

CW Source output power level	-3.5dBm
Operating modes	CW, 270Hz, 330Hz, 1kHz, 2kHz, TWINTest

Power Meter

Power level range	MM: -3 to -30dBm SM: -2 to -50dBm
Calibrated wavelengths	MM: 850 and 1300nm SM: 1310, 1490, 1550, 1625, and 1650nm
Measurement accuracy	MM ¹ : ±1dB (At -15dBm) SM: ±0.5dB (At -30dBm)

Multimode and Quad OTDR Modules (Typical at 25°C)

Central wavelength ²	850/1300 ±30nm	1310/1550 ±20nm
Pulse width	3ns to 1µs	3ns to 20µs
RMS dynamic range ³	26/24dB	37/35dB
Event dead zone ⁴	0.8m	0.9m
Attenuation dead zone ⁵	4m	4m

1 Using a mode conditioner

2 Laser at 25°C

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

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

5 Measured at ±0.5dB from the linear regression using an F/U/C-type reflectance

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