



MaxTester 715B Last-Mile OTDR

The Max-700B series is a line of genuine high-performance OTDRs from the world's leading manufacturer. It delivers EXFO's tried and true OTDR quality and accuracy along with the best optical performance for right-first-time results, every time.

The amazing 12-hour battery life will never let a technician down, and the plug-and-play hardware options, like the VFL, power meter and USB tools, make every technician's job easier.

Most importantly, the Max-700B series is finally bringing the iOLM, an intelligent OTDR-based application, to the handheld market. This advanced software turns even the most complex trace analysis into a simple, one touch task.

Ultimately, the Max-700B series is small enough to fit in your hand and big enough to fit all your needs.

The Max-715B OTDR/iOLM is optimized for the point-to-point testing and troubleshooting of FTTx architectures, and is ideal for testing short fibres (e.g., inside a CO environment or at FTTA/DAS network installations).

Key Features:

- Handy, lightweight, powerful, tablet-inspired design
- 7-inch, outdoor-enhanced touchscreen - the biggest in the handheld industry
- 12-hour autonomy
- Dead zones: EDZ 1 m, ADZ 4 m
- Dynamic range of 30/28/28 dB
- Rugged design built for outside plant
- iOLM-ready: intelligent and dynamic application that turns complex OTDR trace analysis into a one-touch task

Application:

- FTTx last-mile installation and troubleshooting
- Short access-network testing
- FTTA fiber-DA installations
- CATV/HFC network testing

Optical Power Meter

A high-level power meter (GeX) that can measure up to 27 dBm, the highest in the industry. This is essential for HFC networks or high-power signals. If used with an auto-lambda/auto-switching compatible light source, the power meter automatically syncs on the same wavelength avoiding any risk of mismatched measurement.

- Extensive range of connectors
- Auto-Lambda and Auto-Switching
- Offers measurement storage and reporting
- Seven standard calibrated wavelengths

Visual Fault Locator (VFL)

The plug-and-play VFL easily identifies breaks, bends, faulty connectors and splices, in addition to other causes of signal loss. This basic, yet essential troubleshooting tool, should be part of every field technician's toolbox. Visually locating faults by creating a bright-red glow at the exact location of the fault on singlemode or multimode fibres, it can detect faults over distances of up to 5km.



In support of our policy of continuous product improvement we reserve the right to change materials and specifications without notice. Drawings, where used, are not to scale. All dimensions are in millimetres and sizes given are approximate. Where possible, technical MSDS data sheets are made available on the website. All products should be installed and used in accordance with manufacturer's instructions provided. Warning: products may be the subject of registered designs and patents. Refer to website for terms and conditions on warranty.

Specifications

TECHNICAL SPECIFICATIONS	MaxTester 715b
DISPLAY	7 in (178 mm) outdoor-enhanced touchscreen, 800 x 480 TFT
INTERFACES	Two USB 2.0 ports RJ-45 LAN 10/100 Mbit/s
STORAGE	2 GB internal memory (20,000 OTDR traces, typical)
BATTERIES	Rechargeable lithium-polymer battery 12 hours of operation as per Telcordia (Bellcore) TR-NWT-001 138
POWER SUPPLY	Power supply AC/DC adapter, input 100-240 VAC, 50-60 Hz, 9-16 V DCIN 15 Watts minimum
WAVELENGTH (nm) ^b	1310/1550/1625
DYNAMIC RANGE (dB) ^c	30/28/28
EVENT DEAD ZONE (m) ^d	1
ATTENUATION DEAD ZONE (m) ^e	4
DISTANCE RANGE (km)	0.1 to 160
PULSE WIDTH (ns)	5 to 20,000
LINEARITY (dB/dB)	±0.05
LOSS THRESHOLD (dB)	0.01
LOSS RESOLUTION (dB)	0.001
SAMPLING RESOLUTION (m)	0.04 to 5
SAMPLING POINTS	Up to 256,000
DISTANCE UNCERTAINTY (m) ^f	± (0.75 + 0.005 % x distance + sampling resolution)
MEASUREMENT TIME	User-defined (60 min. maximum)
REFLECTANCE ACCURACY (dB)	±2
TYPICAL REAL-TIME REFRESH (Hz)	3
LASER SAFETY	1M

Notes:

- All specifications valid at 23°C ± 2°C with an FC/APC connector, unless otherwise specified.
- Typical.
- Typical dynamic range with longest pulse and three-minute averaging at SNR = 1.
- Typical, for reflectance below -55dB, using 5-ns pulse.
- Typical, for reflectance below -55dB, using 5-ns pulse. Attenuation dead zone at 1310 nm is 5 m typical with reflectance below -45 dB.
- Does not include uncertainty due to fibre index.

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GENERAL SPECIFICATIONS

SIZE (H X W X D)	200mm x 155mm x 68mm (7 7/8 in x 6 1/8 in x 2 3/4 in)	
WEIGHT (WITH BATTERY)	1.29kg (2.8 lb)	
TEMPERATURE	OPERATING	-10°C to 50°C (14°F to 122°F)
	STORAGE	-40°C to 70°C (-40°F to 158°F)
RELATIVE HUMIDITY	0 % to 95 % noncondensing	

BUILT-IN POWER METER SPECIFICATIONS (GeX)

CALIBRATED WAVELENGTHS (nm)	850, 1300, 1310, 1490, 1550, 1625, 1650	
POWER RANGE (dBm) ^d	27 to -50	
UNCERTAINTY (%) ^a	±5 % ± 10 nW	
DISPLAY RESOLUTION (dB)	0.01 = max to -40 dBm 0.1 = -40 dBm to -50 dBm	
AUTOMATIC OFFSET NULLING RANGE ^{d,f}	Max power to -34 dBm	
TONE DETECTION (Hz)	270/330/1000/2000	

VISUAL FAULT LOCATOR (VFL)

Laser, 650 nm ± 10nm
CW/Modulate 1 Hz
Typical P _{out} in 62.5/125µm: > -1.5 dBm (0.7 mW)
Laser safety: Class 2

LASER SAFETY



CAUTION: VIEWING THE LASER OUTPUT WITH CERTAIN OPTICAL INSTRUMENTS (FOR EXAMPLE: EYE LOUPES, MAGNIFIERS AND MICROSCOPES) WITHIN A DISTANCE OF 100 MM MAY POSE AN EYE HAZARD.

Notes:

- a. -20°C to 60°C (-4°F to 140°F) with battery pack
- b. Typical output power is given at 1550nm.
- c. At 23°C ± 1°C, 1550 nm and FC connector. With modules in idle mode. Battery operated after 20-minute warm-up..
- d. Typical.
- e. At calibration conditions.
- f. For ± 0.05 dB, from 10°C to 30°C.

Ordering Information

PART NO: EXF-MAX715B-KIT3A

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