MaxTester 940/945 Fiber Certifier OLTS

OPTIMIZED FOR DATA CENTER AND ENTERPRISE TIER-1 FIBER CERTIFICATION

FASTEST

EF COMPLIANT

EXFO Connect

DATA CENTER SOLUTION

Fully featured tier-1 fiber certifier with a tablet-inspired design and short learning curve. Optimized, clear and fast first-time-right data center system acceptance.

KEY FEATURES

7-inch, high-resolution touchscreen—the widest screen on the market

Leading FasTesT™ performances: certifies two fibers at two wavelengths in 2.6 seconds

Onboard assistant and diagnosis for elimination of reference errors and negative loss

Built-in Encircled-Flux compliancy as per ANSI/TIA and ISO/IEC

100% automated fiber inspection: one-step process with pass/fail analysis at both ends of the fiber

Certifies to multiple industry standards simultaneously

Onboard professional PDF reporting

Optional Optical Return Loss measure (MAX-945)

Batch processing of results with FastReporter 2 software

Best-in-class singlemode distance range of 160 km

EXFO Connect-ready for cloud-based test asset management

APPLICATIONS

Data centers

Enterprise structured cabling

COMPLEMENTARY PRODUCTS

OTDR/iOLM
FTB-720C QUAD OTDR/iOLM

Data Post-Processing Software
FastReporter 2

Fiber Inspector Probe
FIP-400B (WiFi or USB)

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THE FIBER CERTIFIER OLTS WITH THE EXPERT BLUE TOUCH

The MaxTester 940/945 Fiber Certifier OLTS is the first tablet-inspired test solution that has been specifically designed to certify fiber cabling in data centers and enterprise networks. The unit's intuitive Windows-like user interface ensures a minimal learning curve. The MaxTester 940/945 Fiber Certifier offers icon-based functions, instant boot-up, as well as onboard assistance and onboard professional reporting.

TABLET-INSPIRED DESIGN

With the most user-friendly display in the industry (7-inch, high-resolution touchscreen), the MaxTester 940/945 Fiber Certifier delivers unprecedented user experience, and the unit's integrated WiFi/Bluetooth allows for high connectivity. The MaxTester 940/945 Fiber Certifier guarantees a full day of fieldwork with 12 hours of battery autonomy and internal memory capacity of 150,000 test results.

FULL-FLEDGED UNITS AT BOTH ENDS

Both the main and remote units are full-fledged to maximize the efficiency of each technician:

› FasTesT™ results with diagnostics are displayed on both units at the end of each test.

› Both technicians can certify the fiber connectors with a fiber inspection probe via the large touchscreens available on the both units.

The MaxTester 940/945 Fiber Certifier gives remote technicians greater visibility and efficiency.

ONBOARD MULTISTANDARD CERTIFICATION

The MaxTester 940/945 Fiber Certifier lets you certify to both cabling and application standards simultaneously. You can therefore certify the cabling (i.e., the physical quality of the fiber and its components, such as splices and connectors), as well as the application that the fiber can carry; for instance, IEEE or Fibre Channel.

ONBOARD PDF REPORTING

The MaxTester 940/945 Fiber Certifier comes with unique onboard PDF reporting to convert multiple measurements into a single professional report in a format recognized by the industry standards. The reporting includes clear pass/fail certification status against the multiple standards tested, and a summary of the measurements with margins, anomalies, test-cord references and verification.

This feature serves as a natural complement to our FastReporter 2 PC-based software designed for batch processing of high-count fiber and multiple measurement combinations (e.g., connector certification, loss and OTDR).

Figure 1. Compact, intuitive tablet-inspired design.

ONBOARD ASSISTANCE AND DIAGNOSIS

The MaxTester 940/945 Fiber Certifier provides a foolproof method against test-cord reference mistakes and negative loss thanks to its step-by-step wizard that guides technicians through the referencing and verification process, as per industry standards. The MaxTester 940/945 Fiber Certifier goes even further by diagnosing the possible causes for fail results and provides guidance to fix issues.
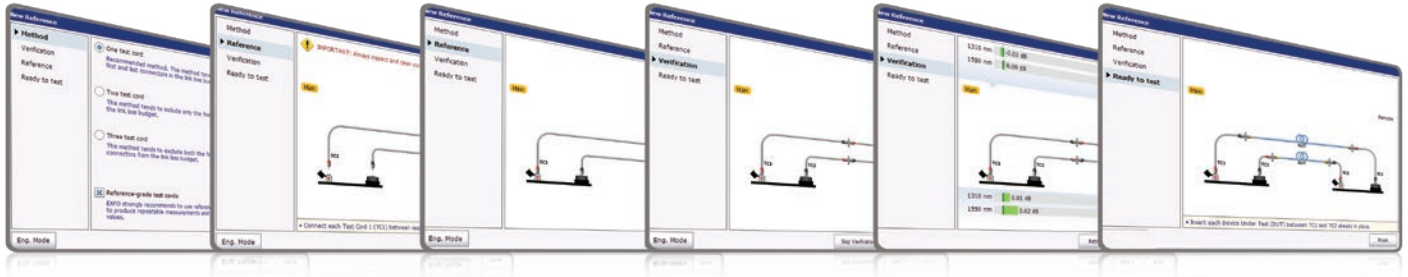
BUILT-IN ENCIRCLED FLUX COMPLIANCY

Each MaxTester 940/945 Fiber Certifier comes with a built-in Encircled Flux (EF)-compliant multimode light source. Furthermore, in order to maximize measurement accuracy and avoid invalid results, EXFO designed reference-grade test cords in compliance with ISO/IEC 14763-3 standard requirements.

EXFO's test cords are made from reference-grade connectors, and the fiber used is strictly controlled to ensure proper core size and geometry. For multimode testing, this makes it possible to remain within Encircled Flux template limits at the output of the test cord, without the need for an external EF-mode conditioner. These high-quality, reference-grade test cords are less fragile and less expensive than EF-conditioned test cords, helping to reduce your overall equipment cost of ownership.

EXFO's test cords are also color-coded to prevent manipulation errors when they are connected to the test ports and device under test. The user interface displays animated instructions with the same color codes to facilitate the test process.

THREE YEARS OF PEACE OF MIND FOR REPAIRS AND CALIBRATION

The MaxTester 940/945 Fiber Certifier has been rigorously tested to guarantee the highest standards of reliability and durability. This is why we feel so confident about offering a warranty and a recommended calibration interval of three years.

You can safely use this highly-reliable instrument for accurate test results while significantly reducing your certifier's cost of ownership (your cost of calibration and the related downtime will be divided by a factor of three).

OPTICAL PLUG-AND-PLAY OPTIONS

The MaxTester 940/945 features plug-and-play optical options that can be purchased whenever you need them, at the time of your order or later on. In either case, installation is a snap: you can do it yourself with no need for any software updates.

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 fibers, it can detect faults over distances of up to 5 km.

Quad option for multimode units

The MaxTester 940/945 Fiber Certifier multimode units offer maximum flexibility by featuring a unique quad-ready ability. Upgrading to the quad option is easy and instantaneous thanks to a software key that activates singlemode wavelengths that are precalibrated at the factory to enable you to test singlemode fibers immediately after the upgrade, without any other constraints. This will save you both time and money.

Test efficiency

› FasTesT™: acquisition time less than three seconds

› Online reporting–live from the field

› Maximum simplicity and fast-learning curve with on-board user assistance:

> › **Port LED indicators**: guide the user through the referencing and testing processes. LED indicators show the user on which optical port to connect the fiber and a beep indicates that the connection is established to confirm continuity.

> › **On-board diagnosis**: throughout the referencing and testing processes, the instrument delivers real-time information on the test cord health as well as pass/fail results according to pre-set or custom criteria. When performing testing, the instrument delivers diagnosis about the loss, length and can even identify the presence of a macrobend (refer to side picture).

> › **Margin meters:** indicate the result status as well as the margin according to preset thresholds.

› The MaxTester 940/945 includes a *Test Again* feature allowing the user to re-test bad fibers in three easy steps:

> 1. Go back in test results
> 2. Quickly and correctly identify the bad fiber by looking at the pass/fail status
> 3. Press *Test Again*

Optimized test sequence

› **Real-time continuity feature:** The main and remote units emit visual and audible signals to let the technicians on both ends know that a connection has been established on the specific fiber under test. This also allows the technicians to start the test right away, saving time on each fiber tested.

› **Text messaging capabilities:** Allows users to send text messages through the fiber under test faster than other test sets in the industry.
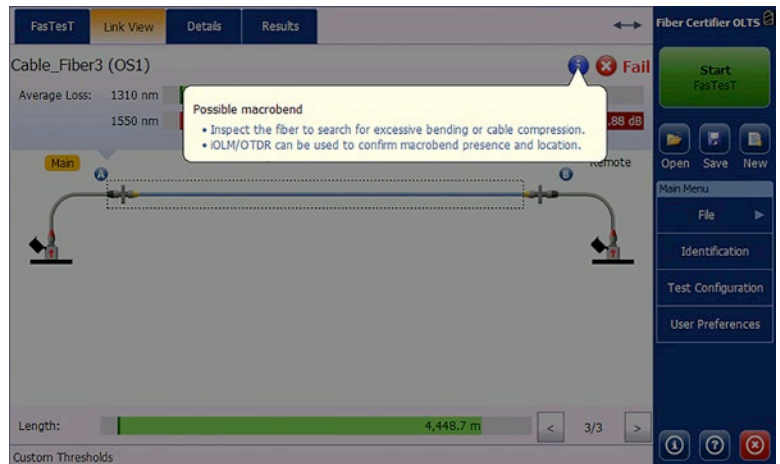
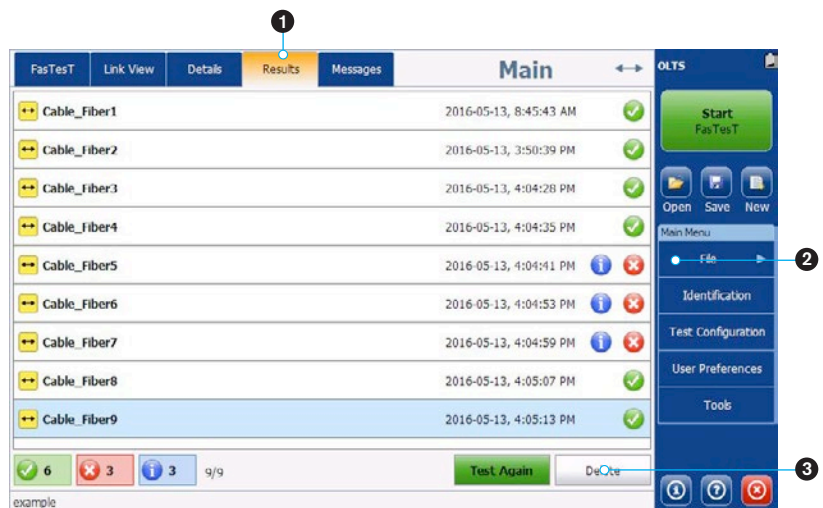*Figure 2. On-board diagnosis helps the technician take proper action*

Figure 3. See results clearly and test again easily

❶ *Results* tab lists all the fibers tested in a cable

❷ Pass/Fail status indicated under *Results*

❸ *Test Again* button allows re-testing a "failed fiber" using the same settings

Continuity audible signal

Continuity visual indicator on screen

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FULLY AUTOMATED FIBER INSPECTION PROBE

Neglecting to clean, inspect and certify connectors can lead to serious, time-consuming problems accounting for up to 80% of network failures.

With its two full-fledged units, the MaxTester 940/945 Fiber Certifier lets you certify connectors at both ends of the fiber, in the same workflow as the tier-1 certification. Accordingly, it is now easy to include connector certification in your regular method of procedures without compromising the efficiency of your technicians. You'll no longer leave any stones unturned or any connectors uninspected!

Years of experience in the field has given EXFO the insight and expertise to re-engineer a truly unique and innovative fiber inspection probe that greatly simplifies and speeds up this critical step.

Housing a unique automatic focus-adjustment system, the FIP-400B automates each operation in the connector endface inspection sequence. **The result: fiber inspection is now a quick, one-step process that can be performed by technicians of all skill levels.**

FIVE MODELS TO FIT YOUR BUDGET

The FIP-410B: offers all the basic inspection features needed for manual inspection only.

The semi-automated FIP-420B: has the same features as the FIP-430B, without the automated focus adjustment.

The semi-automated FIP-425B: the wireless version of the semi-automated FIP-420B.

The FIP-430B: complete and fully automated feature set that includes the powerful fiber image-centering system, focus adjustment and optimization, and onboard pass/fail analysis.

The FIP-435B: go one step further with the wireless probe. Includes all FIP-430B features.

## 100% Automated [a] | 1-step Process [a] | 57% Shorter Test Time [b]

FEATURES	USB WIRED			WIRELESS	
	Basic **FIP-410B**	Semi-automated **FIP-420B**	Fully automated **FIP-430B**	Semi-automated **FIP-425B**	Fully automated **FIP-435B**
Three magnification levels	√	√	√	√	√
Image capture	√	√	√	√	√
Five-megapixel CMOS capturing device	√	√	√	√	√
Automatic fiber image-centering function	X	√	√	√	√
Automatic focus adjustment	X	X	√	X	√
Onboard pass/fail analysis	X	√	√	√	√
Pass/fail LED indicator	X	√	√	√	√
WiFi connectivity	X	X	X	√	√

a. Models FIP-430B and FIP-435B.
b. Data sourced from EXFO's case study, with calculation based on typical analysis time.

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POWERFUL CONNECTOR ENDFACE IMAGE VIEWING AND ANALYSIS SOFTWARE

> Automatic pass/fail analysis of the connector endfaces
> Lightning-fast results in seconds with simple one-touch operation
> Complete test reports for future referencing
> Stores images and results for record-keeping

Inspection Controls

Fiber Inspection Area
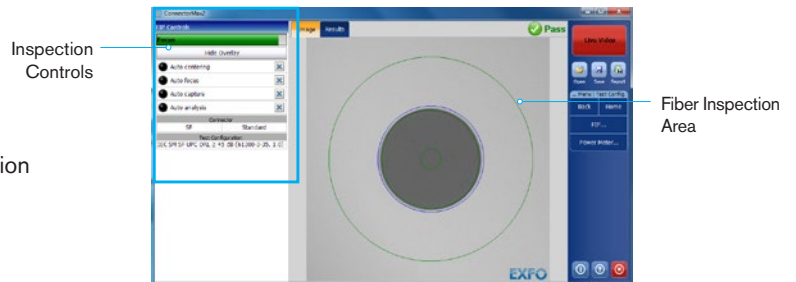
FAST TRACK DATA POST-PROCESSING WITH FASTREPORTER2

Optical test-data analysis involves various challenges, whether for loss, OTDR and iOLM testing, or connector inspection. Designed for off-line analysis, EXFO's FastReporter 2 offers reliable data and report management in a user-friendly environment. This unit packs all the essentials to boost efficiency and productivity for all your optical tests.

| CHALLENGE NO. 1 | EDITING MULTIPLE MEASUREMENT FILES | CHALLENGE NO. 2 | ANALYZING MULTIPLE MEASUREMENT FILES | CHALLENGE NO. 3 | DOCUMENTING YOUR WORK |

Close your jobs faster

Measurements often require extra processing in order to perform proper analysis, and ultimately document and report jobs appropriately. FastReporter 2 includes a series of powerful tools that automate repetitive operations on an unlimited number of files via batch operations.

Wrong limits? Simply recertify

Setting up the wrong limits by selecting the wrong standard or the wrong project is no longer an issue. FastReporter 2 allows you to reset the limits and re-analyze the results to obtain the certification that you need. Instead of redoing tests, you can move on to other projects.

**Create your report fast and like a pro**

FastReporter 2 generates professional, customized reports containing all test measurements under multiple formats (PDF, HTML and XLS). Your customer can now easily see and validate the quality of your work.

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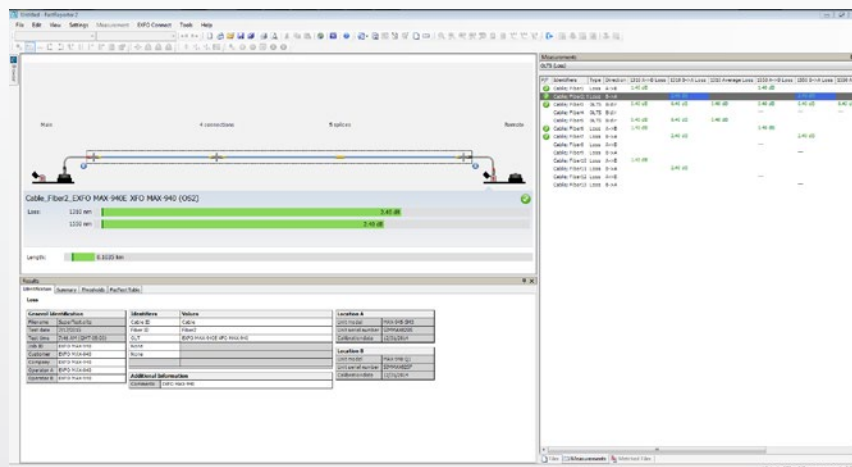
SMALL ENOUGH TO BE HANDHELD.
LARGE ENOUGH FOR FULL-SCREEN VIEWING.

PACKAGED FOR EFFICIENCY

1. Stylus
2. Singlemode source port
3. High-power power meter (optional, for MAX-945 only)
4. Multimode source port
5. Visual fault locator
6. 10/100 Mbit/s Ethernet port
7. Two USB 2.0 ports
8. InGaAs power meter
9. AC adapter
10. Home/switch application and screen capture (hold)
11. Power on/off/standby
12. Battery LED status
13. Built-in WiFi/Bluetooth
14. Stand support
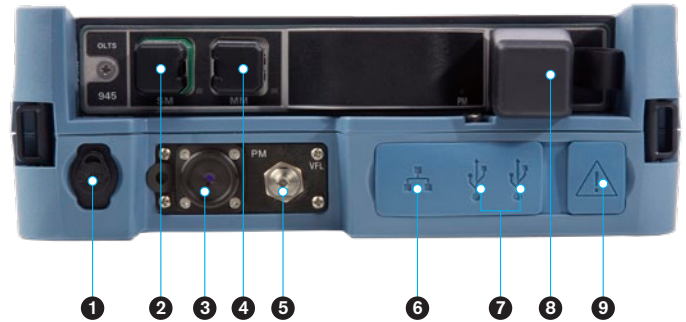
SPECIFICATIONS

SOFTWARE UTILITIES

Software update	Ensure that your MaxTester is up-to-date with the latest software.
VNC configuration	The Virtual Network Computing utility allows technicians to easily remote control the unit via a computer or laptop.
Microsoft Internet Explorer	Access the Web directly from your device interface.
Data mover	Transfer all your daily test results quickly and easily.
Centralized documentation	Instant access to user guides and other relevant documents.
Wallpapers	Enhance your work environment with colorful and scenic backgrounds.
PDF Reader	View your reports in PDF format.
Bluetooth file sharing	Share files between your MaxTester and any Bluetooth-enabled device.
WiFi connection	Wireless inspection probe interface, upload test results and browse the Internet.
Inspection probe	USB or WiFi probe to inspect and analyze connectors.

POWER METER SPECIFICATIONS [a]

	Standard	Optional high power [b]
Input connector	Interchangeable adapter (LC, SC or FC) [c]	Interchangeable adapters (more than 10 types, including LC, SC, FC, ST, E2000, MU)
Detector type	InGaAs	GeX
Measurement range (dBm)	5 to −75	25 to −50 [e]
Uncertainty [d]	±(5 % + 32 pW)	±(5 % + 10 nW)
Wavelengths range (nm)	800 to 1650	800 to 1650

FᴀsᴛTᴇsT™ LOSS/LENGTH SPECIFICATIONS [a]

Testing speed [e]	FasTesT™ Duplex: 2.6 seconds (two wavelengths, one direction, automated, IL + fiber length) FasTesT™ Simplex: 5 seconds (two wavelengths, bidirectional, automated, IL + ORL + fiber length)		
Input/Output connectors	Interchangeable adapter (LC, SC or FC) [c]		
Wavelengths (nm) [e]	Quad 850 ± 20 1300 ± 20 1310 ± 20 1550 ± 20	MM 850 ± 20 1300 ± 20	SM 1310 ± 20 1550 ± 20
Source type	LED (multimode) Laser (singlemode)	LED	Laser
Launch condition [f]	EF compliancy guaranteed at multimode source port Within TIA-526-14-B, ISO/IEC 14763-3 and IEC 61280-4-1 Encircled Flux template limits at the end of an EXFO reference-grade 50/125 µm test cord		
Length measurement range (km)	Multimode: 20 [g] Singlemode: 160		
Length measurement uncertainty [e, h]	±(0.5 m + 0.5 % x length)		
ORL measurement range (dB) [b, e]	50		
ORL measurement uncertainty (dB) [b, e, i]	±1		
Source			
Output power (dBm) [e]	Multimode: −25 Singlemode: 2.5		
Output power stability (dB)	±0.05 over 8 h		
Spectral width (FWHM) (nm)	850 nm: 30 to 60 1300 nm: 100 to 150		

a. At 23 °C ± 1 °C and 1550 nm, on batteries and after 15 minutes of warm up, unless specified otherwise.

b. ORL measurement available on MAX-945 singlemode wavelengths only.

c. Specifications are provided with FC type connectors.

d. Uncertainty is valid at calibration conditions.

e. Typical.

f. Measured at 850 nm with SC connector.

g. At 1300 nm.

h. In duplex.

i. No discrete reflectance greater than −65 dB. Up to 45 dB

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VISUAL FAULT LOCATOR (VFL) (optional)

Laser, 650 nm ± 10 nm

CW/Modulate 1 Hz

Typical P_{out} in 62.5/125 µm: $>$ −1.5 dBm (0.7 mW)

Laser safety: Class 2

LASER SAFETY

If VFL option is available

IEC 60825-1:2007   21 CFR 1040.10

LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT

λ: 650 ±10 nm
P_{out} maximum < 2mW

CLASS 1
LASER PRODUCT

ENVIRONMENTAL SPECIFICATIONS

Temperature	Operating	−10 °C to 50 °C (14 °F to 122 °F)
	Storage	−30 °C to 70 °C (−22 °F to 158 °F) [a]
Relative humidity		0 % to 95 % non-condensing

GENERAL SPECIFICATIONS

Display	7-in (178-mm) outdoor-enhanced touchscreen, 800 x 480 TFT
Size (H x W x D)	166 mm x 200 mm x 68 mm (6 9/16 in x 7 7/8 in x 2 3/4 in)
Weight (with battery)	1.5 kg (3.3 lb)
Interfaces	Two USB 2.0 ports RJ45 LAN 10/100 Mbit/s
Storage	6 GB internal memory (150 000 test results, typical)
Battery [b]	Rechargeable lithium-polymer battery 12 hours of operation
Power supply	Power supply AC/DC adapter, input 100-240 VAC, 50-60 Hz, 9-16 V DCIN 20 W minimum
Warranty	Three (3) years
Recommended recalibration period	Three (3) years

a. −20 °C to 60 °C (−4 °F to 140 °F) with the battery pack.
b. Typical.

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ORDERING INFORMATION

MAX-940-XX-XX-XX-XX-XX-XX-XX-XX

Model
MAX-940 = Fiber Certifier OLTS

Optical configuration
ICERT-SM1 = Singlemode OLTS 1310/1550 nm
ICERT-Q1 = Multimode OLTS 850/1300 nm
ICERT-Q1-QUAD = Quad OLTS 850/1300 nm;
1310/1550 nm

Optical connector [a]
EA-EUI-89 = APC/FC
EA-EUI-91 = APC/SC
EA-EUI-98 = APC/LC
EI-EUI-89 = UPC/FC
EI-EUI-91 = UPC/SC
EI-EUI-98 = UPC/LC

Optical options
00 = Without optical option
VFL = Visual fault locator

Inspection probe model
00 = Without inspection probe
FP410B = Digital video inspection probe [c]
    Triple magnification
FP420B = Analysis digital video inspection probe [c]
    Automated pass/fail analysis
    Triple magnification
    Autocentering
FP425B = Wireless digital video inspection probe [c, d]
    Automated pass/fail analysis
    Triple magnification
    Autocentering
FP430B = Automated analysis digital video inspection probe [c]
    Automated focus
    Automated pass/fail analysis
    Triple magnification
    Autocentering
FP435B = Wireless analysis digital video inspection probe [c, d]
    Automated focus
    Automated pass/fail analysis
    Triple magnification
    Autocentering

FastReporter
00 = Without FastReporter 2
FR2 = With FastReporter 2 PC software

Connectivity
00 = Without RF components
RF = With RF capability (WiFi and Bluetooth)

Extra FIP-400B tips [b]
Bulkhead tips
FIPT-400-FC-APC = FCAPC tip for bulkhead adapter
FIPT-400-FC-SC = FC and SC tip for bulkhead adapter [e]
FIPT-400-LC = LC tip for bulkhead adapters
FIPT-400-LC-APC = LC/APC tip for bulkhead adapter
FIPT-400-MU = MU tip for bulkhead adapters
FIPT-400-SC-APC = SC APC tip for bulkhead adapter [f]
FIPT-400-ST = ST tip for bulkhead adapter

Patchcord tips
FIPT-400-U12M = Universal patchcord tip for 1.25 mm ferrules
FIPT-400-U12MA = Universal patchcord tip for 1.25 mm ferrules APC
FIPT-400-U16M = Universal patchcord tip for 1.6 mm ferrules
FIPT-400-U20M2 = Universal patchcord tip for 2.0 mm ferrules (D4, Lemo)
FIPT-400-U25M = Universal patchcord tip for 2.5 mm ferrules [e]
FIPT-400-U25MA = Universal patchcord tip for 2.5 mm ferrules APC [f]

Multifiber tips
FIPT-400-MTP2 = MTP/MPO UPC tip for bulkhead adapter
FIPT-400-MTPA2 = MTP/MPO APC tip for bulkhead adapter
FIPT-400-MTP-MTR = MTP/MPO multirow UPC tip for bulkhead adapter
FIPT-400-MTP-MTRA = MTP/MPO multirow APC tip for bulkhead adapter

Tip kits
FIPT-400-LC-K = LC tip kit including: FIPT-400-LC: LC tip for bulkhead adapters,
    FIPT-400-LC-APC: LC/APC tip for bulkhead adapter,
    FIPT-400-U12M: Universal patchcord tip for 1.25 mm ferrules,
    FIPT-400-U12MA: Universal patchcord tip for 1.25 mm ferrules APC
FIPT-400-LC-K-APC = LC tip kit including: FIPT-400-LC-APC: LC/APC tip for bulkhead
    adapter and FIPT-400-U12MA: Universal patchcord tip for 1.25 mm
    ferrules APC
FIPT-400-LC-K-UPC = LC tip kit including: FIPT-400-LC: LC tip for bulkhead adapters and
    FIPT-400-U12M: Universal patchcord tip for 1.25 mm ferrules
FIPT-400-MTP-MTR-K = MTP/MPO multirow APC and UPC tip for bulkhead adapter

Base tips
APC = Includes FIPT-400-U25MA and FIPT-400-SC-APC
UPC = Includes FIPT-400-U25M and FIPT-400-FC-SC

Example: MAX-940-ICERT-Q1-QUAD-EI-EUI-91-VFL-FP420B-UPC

a. EUI adapters are the same on SM, MM source ports and power meter ports. Multimode connectors are always UPC.
b. Available with probe option.
c. Includes ConnectorMax2 software.
d. Includes RF option.
e. Included in UPC base tips option.
f. Included in APC base tips option.

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ORDERING INFORMATION

MAX-945-XX-XX-XX-XX-XX-XX-XX

Model
MAX-945 = Fiber Certifier OLTS

Optical configuration
ICERT-Q1-QUAD = Quad
Port 1: 850/1300 nm IL and length measurement
Port 2 : 1310/1550 nm IL, length and ORL measurement

Connector [a]
EA-EUI-89 = APC/FC narrow key
EA-EUI-91 = APC/SC
EA-EUI-98 = APC/LC
EI-EUI-89 = UPC/FC [h]
EI-EUI-91 = UPC/SC [h]
EI-EUI-98 = UPC/LC [h]

VFL and power meter
00 = Without VFL and power meter
VFL = With VFL
PM2X = With power meter; GeX detector
VPM2X = With VFL and power meter; GeX detector

WiFi and Bluetooth
00 = Without RF components
RF = With RF capability (WiFi and Bluetooth)

Inspection probe model [b]
00 = Without inspection probe
FP410B = Digital video inspection probe
Triple magnification
FP420B = Analysis digital video inspection probe
Automated pass/fail analysis
Triple magnification
Autocentering
FP425B = Wireless digital video inspection probe [c]
Automated pass/fail analysis
Triple magnification
Autocentering
FP430B = Automated analysis digital video inspection probe
Automated focus
Automated pass/fail analysis
Triple magnification
Autocentering
FP435B = Wireless analysis digital video inspection probe [c]
Automated focus
Automated pass/fail analysis
Triple magnification
Autocentering

Extra FIP-400B tips [d]
Bulkhead tips
FIPT-400-FC-APC = FC/APC tip for bulkhead adapter
FIPT-400-FC-SC = FC and SC tip for bulkhead adapter [e]
FIPT-400-LC = LC tip for bulkhead adapters
FIPT-400-LC-APC = LC/APC tip for bulkhead adapter
FIPT-400-MU = MU tip for bulkhead adapters
FIPT-400-SC-APC = SC/APC tip for bulkhead adapter [f]
FIPT-400-SC-UPC = SC/UPC tip for bulkhead adapter
FIPT-400-ST = ST tip for bulkhead adapter

Patchcord tips
FIPT-400-U12M = Universal patchcord tip for 1.25 mm ferrules
FIPT-400-U12MA = Universal patchcord tip for 1.25 mm ferrules APC
FIPT-400-U16M = Universal patchcord tip for 1.6 mm ferrules
FIPT-400-U20M2 = Universal patchcord tip for 2.0 mm ferrules (D4, Lemo)
FIPT-400-U25M = Universal patchcord tip for 2.5 mm ferrules [e]
FIPT-400-U25MA = Universal patchcord tip for 2.5 mm ferrules APC [f]

Multifiber tips [g]
FIPT-400-MTP2 = MTP/MPO UPC tip for bulkhead adapter
FIPT-400-MTPA2 = MTP/MPO APC tip for bulkhead adapter
FIPT-400-MTP-MTR = MTP/MPO multirow UPC tip for bulkhead adapter
FIPT-400-MTP-MTRA = MTP/MPO multirow APC tip for bulkhead adapter

Tip kits
FIPT-400-LC-K = LC tip kit including:
FIPT-400-LC: LC tip for bulkhead adapters,
FIPT-400-LC-APC: LC/APC tip for bulkhead adapter,
FIPT-400-U12M: Universal patchcord tip for 1.25 mm ferrules,
FIPT-400-U12MA: Universal patchcord tip for 1.25 mm ferrules APC
FIPT-400-LC-K-APC = LC tip kit including:
FIPT-400-LC-APC: LC/APC tip for bulkhead adapter,
FIPT-400-U12MA: Universal patchcord tip for 1.25 mm ferrules APC
FIPT-400-LC-K-UPC = LC tip kit including:
FIPT-400-LC: LC tip for bulkhead adapters,
FIPT-400-U12M: Universal patchcord tip for 1.25 mm ferrules
FIPT-400-MTP-MTR-K = MTP/MPO multirow APC and UPC tip for bulkhead adapter [g]

Base tips
APC = Includes FIPT-400-U25MA and FIPT-400-SC-APC
UPC = Includes FIPT-400-U25M and FIPT-400-FC-SC

Example: MAX-945-ICERT-Q1-QUAD-EA-EUI-91-VFL-RF-FP435B-APC

a. Connector adapters are the same on singlemode source ports, multimode source ports and power meter ports. Multimode connectors are always UPC.

b. Includes ConnectorMax2 software.

c. RF option mandatory and included with this model.

d. This list represents a selection of fiber inspection tips that covers the most common connectors and applications but does not reflect all the tips available. EXFO offers a wide range of inspection tips, bulkhead adaptors and kits to cover many more connector types and different applications. Please contact your local EXFO sales representative or visit **www.EXFO.com/FIPtips** for more information.

e. Included when UPC base tips are selected.

f. Included when APC base tips are selected.

g. Includes a bulkhead adapter for patch cord inspection.

h. An hybrid REF Grade Test Cord will be supplied when EI (UPC) interfaces is required.

EXFO headquarters   **T** +1 418 683-0211   **Toll-free** +1 800 663-3936 (USA and Canada)

EXFO serves over 2000 customers in more than 100 countries. To find your local office contact details, please go to **www.EXFO.com/contact**.

For the most recent version of this spec sheet, please go to **www.EXFO.com/specs**.

In case of discrepancy, the web version takes precedence over any printed literature.

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