

FIP-400 FIBER INSPECTION PROBE

NETWORK TESTING—OPTICAL



Rugged video inspection probe to detect dirty/damaged connectors with great precision

KEY FEATURES

Easy back-panel connector inspection

Truly rugged and lightweight solution for the field

Ideal for all types of connectors: APC, UPC, MTP and more

Slim design for easy use in crowded patch panels

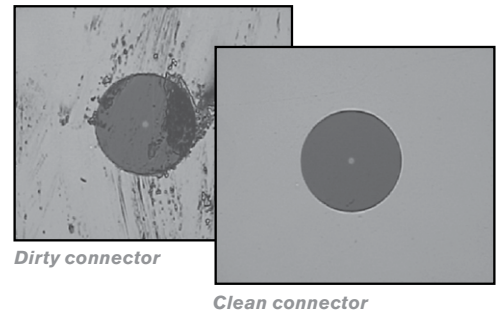
SPEC SHEET

EXFO

ZOOM IN ON CLARITY

It's a known fact: optical network problems are often caused by dirty and/or damaged connectors. Using a fiber inspection probe to ensure that connectors/adapters are clean and exempt of any defect is where accurate testing starts.

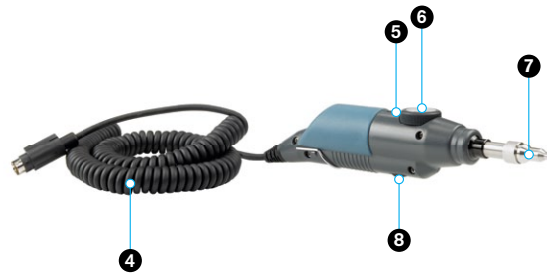
Thanks to EXFO's FIP-400 Fiber Inspection Probe, checking connectors and other fiber terminations for polish quality and cleanliness has never been easier. Benefit from the best optical resolution in the industry and see scratches and dirt particles as small as 1 µm. Also, use a USB converter to send image captures to a portable platform or a PC.



Fiber Probe Viewer



Video Inspection Probe



- 1 3.5" TFT LCD screen
- 2 Rechargeable Li-ion battery
- 3 Adjustable brightness and contrast
- 4 Probe connector (EXFO type)
- 5 Image capture button
- 6 Focusing device
- 7 Interchangeable tip
- 8 Magnification knob (dual model)

APPLICATIONS

Patchcord inspection

- › Compatible with a wide range of connector types
- › Offers great optical performance for patchcord quality assurance
- › Use it as a stand-alone unit to perform field applications or with a USB adapter in a manufacturing environment

Patch panel bulkhead inspection

- › Get a clear view of both sides of an interconnection
- › Inspect hard-to-reach connectors without stressing adjacent fibers, thanks to the FIP-400's slim design

Single-fiber connector inspection

- › Compatible with 1.25 mm and 2.5 mm angled-polished and ultra-polished connectors (APC and UPC)

Multifiber connector inspection

- › Compatible with male and female ribbon connectors such as MTP multifiber APC and UPC connectors



Patchcord inspection in a manufacturing environment



Patch panel bulkhead inspection

FIP-400 COMPATIBILITY

The FIP-400 Fiber Inspection Probe features an analog probe connector only supported on the following EXFO legacy products:

FIP-400 Display



FOT-930



AXS-200



AXS-110



NEW GENERATION OF FIBER INSPECTION PROBE NOW AVAILABLE

To ensure compatibility with more recent generation of EXFO products:

**FTB Ecosystem
Platforms**



**Max-FIP and
MaxTester 700B
OTDR Series**



IQS Platforms*



PC and Laptops



A new generation of fiber inspection probe is now offered (January 2014), the FIP-400B series. This new fiber inspection probe series features USB connectivity and offers powerful automated features such as automatic image centering system, automatic focus adjustment and pass/fail connector endface analysis.

For more information on the FIP-400B, please refer to the FIP-400B specification sheet or visit www.EXFO.com/keepthefocus.

**FIP-400B compatibility with IQS Platform coming soon.*

SPECIFICATIONS		
Video Inspection Probe		
Size (H x W x D)	without tip cap with tip cap	38 mm x 32 mm x 170 mm (1 1/2 in x 1 1/4 in x 6 11/16 in) 38 mm x 32 mm x 200 mm (1 1/2 in x 1 1/4 in x 7 3/4 in)
Weight		0.2 kg (0.44 lb)
Resolution		Theoretical < 2 µm, detection capability < 1 µm
Field of view		625 µm x 464 µm (low magnification) ^a 412 µm x 306 µm (high magnification)
Light source		Blue LED
Lighting technique		Coaxial
Capture button ^b		Present on all models
Connector		EXFO probe port type (8 pin mini-DIN)
Focus control		Adjustable on the probe
Optical magnification		Adjustable, low and high (dual model only)
Fiber Probe Viewer		
Size (H x W x D)		50 mm x 99 mm x 190 mm (1 15/16 in x 3 7/8 in x 7 1/2 in)
Weight ^c		0.3 kg (0.66 lb)
LCD screen		3.5 in TFT active matrix (320 x 240 pixels)
Power		Rechargeable Li-ion battery or AC adapter/charger
Battery life		3 hours (continuous use)
Charging time		4 hours
Connector		EXFO probe port type (8 pin mini-DIN)
USB Converter		
		USB 2.0 Model
Size (H x W x D)		19 mm x 36 mm x 95 mm (3/4 in x 1 7/16 in x 3 3/4 in)
Capture button		Yes

GENERAL SPECIFICATIONS		
Temperature	operating storage	-10 °C to 50 °C -40 °C to 70 °C
Relative humidity		0 % to 95 % non-condensing

ACCESSORIES		
Optional		Standard
FIPT-BOX	Plastic case divided into various compartments for tips	Video inspection probe (single or dual magnification)
GP-1001	Rechargeable battery for handheld display	FC-SC tip for bulkhead
GP-10-071	Soft carrying case for inspection probe, display and accessories	U25M universal patchcord tip for 2.5 mm ferrule
		Plastic case divided into various compartments for tips

Notes

- a. Dual model only.
- b. Works with USB 2.0 adapter, FOT-930 and FTB-200.
- c. Without battery.

ORDERING INFORMATION

FIP-400-XX-XX

Inspection Probe Model

- FIP-400-**P-SINGLE** = Video inspection probe
Single magnification
- FIP-400-**P-DUAL** = Video inspection probe
Dual magnification
- FIP-400-**D** = Handheld display
- FIP-400-**USB2** = USB2 converter with software for PC,
IQS-600 and FTB-500 ^a

Extra FIP-400B tips ^b

Bulkhead tips

- FIPT-400-**FC-APC** = FC/APC tip for bulkhead adapter
- FIPT-400-**FC-SC** = FC and SC tip for bulkhead adapter ^c
- 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
- 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-**U25MA** = Universal patchcord tip for 2,5 mm ferrules APC

Multifiber tips ^d

- 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 Multi-Row UPC tip for bulkhead adapter
- FIPT-400-**MTP-MTRA** = MTP/MPO Multi-Row 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 1.25mm 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 1.25mm 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 Multi-Row APC and UPC tip for bulkhead adapter ^d

Example: FIP-400-P-SINGLE-FIPT-400-FC-APC

Notes

- a. FTB-500 minimum Toolbox software requirement: 6.28 or higher
- b. 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.
- c. Included in the standard accessories with the FIP-400.
- d. Includes a bulkhead adapter for patch cord inspection.

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

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