

# FIP-400

NETWORK TESTING—OPTICAL



Highly versatile probe to detect dirty/damaged connectors with unparalleled precision

- Easy back-panel connector inspection
- Truly rugged and lightweight solution for the field
- Image-capture capability for report documentation
- Ideal for all types of connectors: APC, UPC, MTP and more
- Slim design for easy use in crowded patch panels
- Compatible with EXFO test instruments

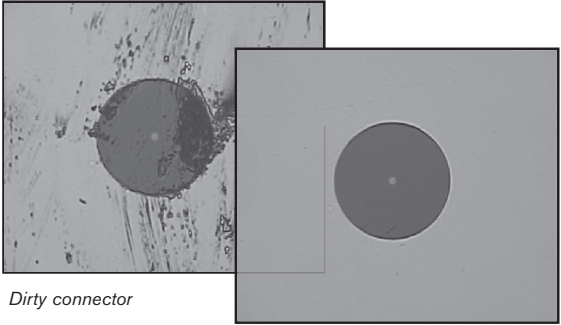
# Zoom In on Clarity

It's a known fact: optical network problems are often caused by dirty and/or damaged connectors. Using a fiber inspection probe to ensure 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.



Magnification and focus controls



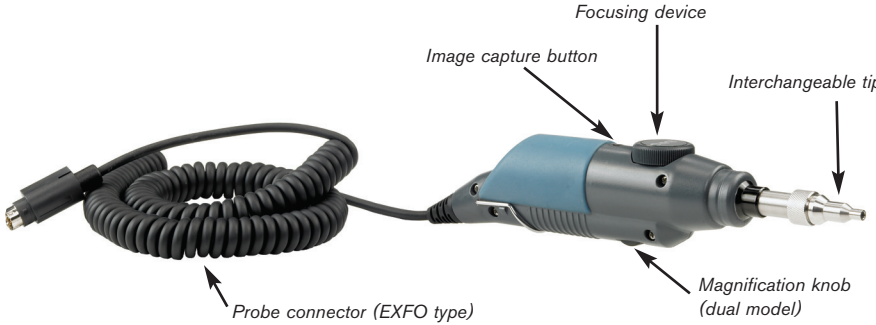
Dirty connector

Clean connector

## FIBER PROBE VIEWER



## VIDEO INSPECTION PROBE



# The Industry's Most Versatile Probe

With EXFO's FIP-400, you have the choice—you can either use it with a PC, with one of our test sets or with our lightweight, handheld monitor. Choose the way that works for you.

**Plug directly**

AXS-200, AXS-110, FOT-930

FTB-200    FIP-400

**Requires USB 2.0 converter**

Laptop and PC

**Requires USB 1.1 converter**

IQS-500

FTB-400

USB 2

USB 1

# 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

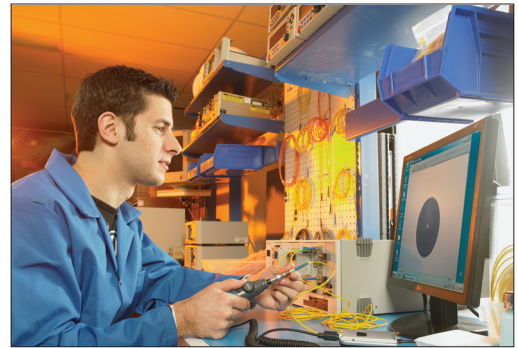
- Get a clear view of both sides of an interconnection
- Inspect hard-to-reach connectors without stressing adjacent fibers, thanks to the FIP-400's slim design

## 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

## ADAPTER TIPS



**FIPT-400-ADAPTER**  
Adapter tip



**FIPT-400-FC-SC-APC**  
FC and SC tip for APC bulkheads



**FIPT-400-U25M**  
Universal patchcord tip for 2.5 mm ferrules



**FIPT-400-ST**  
ST tip for bulkhead adapters



**FIPT-400-U25MA**  
Universal patchcord tip for 2.5 mm APC ferrules



**FIPT-400-LC**  
LC tip for bulkhead adapters



**FIPT-400-U12M**  
Universal patchcord tip for 1.25 mm ferrules



**FIPT-400-LC-APC**  
LC/APC tip for bulkhead adapters



**FIPT-400-U12MA**  
Universal patchcord tip for 1.25 mm APC ferrules



**FIPT-400-FC-SC**  
FC and SC PC tip for bulkhead adapters



**FIPT-400-MTP**  
MTP tip for PC bulkheads



**FIPT-400-MTPA**  
MTP tip for APC bulkheads



**FIPT-400-E2000**  
E-2000 tip for bulkhead adapters

## SPECIFICATIONS

### Video Inspection Probe

Size (L x W x H)	
without tip cap	170 mm x 32 mm x 38.5 mm (6 11/16 in x 1 1/4 in x 1 1/2 in)
with tip cap	200 mm x 32 mm x 38.5 mm (7 3/4 in x 1 1/4 in x 1 1/2 in)
Weight	0.2 kg (0.44 lb)
Resolution	Theoretical < 2 µm, detection capability < 1 µm
Field of view	0.625 µm x 0.464 µm (low magnification) <sup>a</sup> 0.412 µm x 0.316 µm (high magnification)
Light source	Blue LED
Lighting technique	Coaxial
Capture button <sup>b</sup>	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 (L x W x H)	190 mm x 99 mm x 50 mm (7 1/2 in x 3 7/8 in x 1 15/16 in)
Weight <sup>c</sup>	0.3 kg (0.66 lb)
LCD	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 1.1 model	USB 2.0 model
Size (L x W x H)	90 mm x 36 mm x 20 mm (3 9/16 in x 1 7/16 in x 13/16 in)	95 mm x 36 mm x 19 mm (3 3/4 in x 1 7/16 in x 3/4 in)
Connectors	EXFO probe port type (8 pin mini-DIN)/USB	
Capture button	No	Yes

## GENERAL SPECIFICATIONS

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

## ORDERING INFORMATION

### PROBE

#### FIP-400-P-XX-XX

Model  Adapter tips<sup>d</sup>

FIP-400-P-SINGLE = video inspection probe  
single magnification

FIP-400-P-DUAL = video inspection probe  
dual magnification

#### Standard Accessories

- Video inspection probe (single or dual magnification)
  - FC-SC tip for bulkheads
  - U25M universal patchcord tip for 2.5 mm ferrules
  - Plastic case divided into various compartments for tips
- Example: FIP-400-P-SINGLE-FIPT-400-LC

#### NOTES

- a. Dual model only
- b. Works with USB 2.0 adapter, FOT-930 and FTB-200
- c. Without battery
- d. See adapter tips list
- e. May require USB1 or USB2 depending on user's PC

### DISPLAY

#### FIP-400-D

Model   
FIP-400-D = Handheld display  
Example: FIP-400-D

### USB

#### FIP-400-USBX

Model   
FIP-400-USB1 = USB1 converter with software, compatible with FTB-400 and IQS-500  
FIP-400-USB2 = USB2 converter with software for PC<sup>e</sup>  
Example: FIP-400-USB1

### OPTIONAL ACCESSORIES

- FIPT-BOX = plastic case divided into various compartments for tips
- GP-1001 = rechargeable battery for handheld display
- GP-10-073 = soft carrying case for inspection probe, display and accessories

**Rugged Handheld Solutions**

<b>OPTICAL</b>	<b>COPPER ACCESS</b>
— OTRs	— ADSL/ADSL2+, SHDSL, VDSL test sets
— OLTSs	— VoIP and IPTV test sets
— Power meters	— Ethernet test sets
— Light sources	— POTS test sets
— Talk sets	

**Platform-Based Solutions**

<b>OPTICAL FIBER</b>	<b>DWDM TEST SYSTEMS</b>	<b>TRANSPORT AND DATACOM</b>
— OTRs	— OSAs	— Next-generation SONET/SDH and OTN testers
— OLTSs	— PMD analyzers	— SONET/DSn (DS0 to OC-192) testers
— ORL meters	— Chromatic dispersion analyzer	— SDH/PDH (64 kbit/s to STM-64) testers
— Variable attenuators		— T1/T3, E1 testers
		— 10/100 Mbit/s and Gigabit Ethernet testers
		— Fibre Channel testers
		— 10 Gigabit Ethernet testers

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EXFO is certified ISO 9001 and attests to the quality of these products. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit [www.EXFO.com/recycle](http://www.EXFO.com/recycle). Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

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