

Video Fiber Inspection Probe

FIP-S1/FIP-USB and Accessories



Back panel connector inspection

Lightweight and ergonomic

Handheld or FTB-400/PC display

FTB-400/PC image-capture capability



Fiber-optic T&M,
monitoring, manufacturing
and assembly solutions

EXFO

Innovative Image-Capture Technology

Checking connectors and other fiber terminations for polish quality and cleanliness is crucial in modern high-bandwidth systems. Neglect may lead to signal loss in networks, leading to further troubleshooting, lost time and greater expense.



Inspect Hard-to-Reach Connectors

Avoid these problems with the FIP-S/FIP-USB Video Fiber Inspection Probe, a handheld video microscope. Unlike traditional microscopes, the inspection probe facilitates the examination of hard-to-reach connectors on the back of patch panels and bulkhead adapters. It also lets you check the inside of connectors without taking them apart. EXFO offers two ways to achieve clear, sharp images of termination dirt and damage—a convenient handheld display, or our market-leading FTB-400 Universal Test System.



Features

- Direct USB output port
- Simple one-cable design
- Basic capture and image-sharpening software
- Save digital images directly to your PC
(Windows 2000 compatibility only or FTB-400)

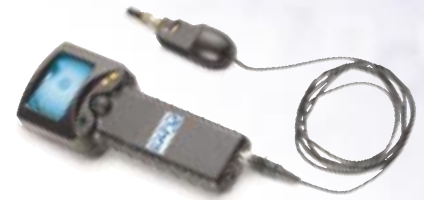
FTB-400: See the Possibilities

Connect the probe to an FTB-400 Universal Test System with its 12.1-inch screen or a PC via an image-capture unit to view the fiber endface. This innovative technology draws its power from the USB port and requires no additional battery packs or cabling. Use the unit with specialized software for digital image-capture and sharpening, as well as data storage.



Excellent Images in Hand

Connect the probe directly to the compact, handheld active matrix LCD screen for safe, efficient inspection. The probe's high-magnification optics project a 530-micron field of view onto the handheld's bright, high-contrast 2.5-inch TFT active matrix LCD display. The handheld display features an Auto-Shutoff interval switch with three settings to ensure long-lasting battery life.



Outstanding Fiber Probe Features

This compact, lightweight fiber inspection probe contains a coaxial LED light source and a mini CCD video camera, (1/3 in), with a 530 μm field of view and a choice of 200x or 400x magnification. The probe handle has a small, conveniently positioned focusing device. Simply turn the mechanism until you reach the desired sharpness. The tip of the handle mates with the female bulkhead connector on the patch panel or mating connector and pre-centers the image on the screen. The small probe holds itself in place for hands-free operation. The instrument comes with a standard, built-in NiMH rechargeable battery for use with the handheld active matrix LCD screen.



Accessories—Maximum Flexibility



FIPT-FC
FC tip for FIP-P1.



FIPT-U12M
Universal Patchcord tip for 1.2-mm ferrules (LC and MU) used to view MALE connectors.

FIPT-SC
SC tip for bulkhead adapter.



FIPT-ST
ST tip for FIP-P1.



FIPT-LC
LC tip for FIP-P1.

FIPT-SC/APC
SC-APC tip for bulkhead adapter.



FIPT-ST-L
Long-reach ST tip for bulkhead adapters with extended reach and narrow barrel.



FIPT-LC-L
Long-reach LC tip for bulkhead adapters with extended reach and narrow barrel (recommended for extensive LC use).

FIPT-UFMA
Universal flare tip. Allows you to attach any MOA adapter from our handheld fiber microscopes (used to view MALE connectors).



FIPT-FC-P
Pro Version FC tip for bulkhead adapters, threads onto bulkhead for true hands-free operation.



FIPT-FC-APC
FC-APC tip for bulkhead adapters; threads onto bulkhead for hands-free operation.

FIPT-MU
MU tip for bulkhead adapters.



FIPT-U25M
Universal Patchcord tip for 2.5-mm ferrules (SC, ST, FC and SMA) used to view MALE connectors.

FIPT-MU-L
Long-reach MU tip for FEMALE bulkhead adapters with extended reach.

FIPT-E2000
E2000 tip for bulkhead adapters.

Specifications

Handheld Display	
FIP-HD1 (comes with US, EURO or UK plugs)	
Weight	0.5 kg (1 lb)
Display	6.4 cm (2 1/2 in) TFT Active Matrix (480 x 234 pixels)
Video out	NTSC, with dedicated connector for probe
Power	Rechargeable, NiMH battery or AC power adapter (110 and 220 VAC)
Battery life	2 h
Charging time	2 h
Dimensions	Length 21.6 cm (8 1/2 in) Width 8.4 cm (3 5/16 in)

Video Inspection Probe	
Weight	0.05 kg (0.1 lb)
Optical magnification	200x, 400x or 500x
Camera type	CCD, 1/3 in
Light source	Red LED, internal to probe
Lighting technique	Coaxial
Focus control	Adjustable
Dimensions	Length 10.7 cm (4 3/16 in) Diameter 3.6 cm (1 3/8 in)

General Specifications

Temperature	operating 0 °C to 40 °C storage -10 °C to 60 °C
Relative humidity	0 % to 95 % non-condensing

Optional Accessories

Video Inspection Probe	Video Output Module	Handheld display	USB Module and Software
FIP-P1 (200X)	FIP-V02 for US	FIP-HD1 for US	FIP-USB
FIP-P5 (400X)	FIP-V02-EU for Europe	FIP-HD1-EU for Europe	
FIP-P7 (500X)	FIP-V02-UK for UK	FIP-HD1-UK for UK	

Adapter Tips

- FIPT-ST (ST tip for bulkhead adapter)
- FIPT-ST-L (Long-reach ST tip for bulkhead adapter)
- FIPT-SC (SC tip for bulkhead adapter)
- FIPT-FC (FC tip for bulkhead adapter)
- FIPT-FC-P (Pro-version FC tip for bulkhead for hands-free operation)
- FIPT-FC-APC (FC tip for bulkhead adapter with angle connector)
- FIPT-LC (LC tip for bulkhead adapter)
- FIPT-LC-L (Long-reach LC tip for bulkhead adapter)

Ordering Information

FIP-SXX-XX

Standard Accessories

Each kit contains a handheld display (FIP-HD1), probe (FIP-P1 or FIP-P5), adapter, FC tip (FIPT-FC), ST tip (FIPT-ST), SC tip (FIPT-SC), Universal 2.5 mm patchcord tip (FIPT-U25M).

Kits

Model	Description
FIP-S1	(FIP-P1 200x magnification) power supply for North America
FIP-S1-EU	(FIP-P1 200x magnification) power supply for Europe
FIP-S1-UK	(FIP-P1 200x magnification) power supply for UK
FIP-S15	(FIP-P5 400x magnification) power supply for North America
FIP-S15-EU	(FIP-P5 400x magnification) power supply for Europe
FIP-S15-UK	(FIP-P5 400x magnification) power supply for UK

FIP-USBX

Standard Accessories

Each kit contains USB module (FIP-USB) and software (Windows 2000 compability only), probe (FIP-P1 or FIP-P5), FC tip (FIPT-FC), ST tip (FIPT-ST), SC tip (FIPT-SC), Universal 2.5 mm patchcord tip (FIPT-U25M).

Kits

Model	Description
FIP-USB2	(FIP-P1 200x magnification)
FIP-USB4	(FIP-P5 400x magnification)

Find out more about EXFO's extensive line of high-performance portable instruments by visiting our Web site at www.exfo.com



Rugged Handheld Solutions

- OLTS
- Power Meter
- Light Source
- Talk Set



UNIVERSAL TEST SYSTEM

- OTDR
- OLTS
- ORL
- Switch

Optical Fiber

- OSA
- PMD
- Chromatic Dispersion Analyzer
- Multiwavelength Meter

DWDM Test Systems

Protocol

- 10/100 and Gigabit Ethernet
- SONET/SDH (DS0 to OC-192c)
- SDH/PDH (64Kb/s to STM-64c)

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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.

Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

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

