Back panel connector inspection

Lightweight and ergonomic

Handheld or FTB-400/PC display or FOT-930

FTB-400/IQS-500/PC image-capture capability

Compatible with EXFO products

Solutions for all types of connectors, APC and UPC
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.

Key Features

- Direct USB output port
- Simple one-cable design
- Basic capture and image-sharpening software
- Save digital images directly to your PC/iQS-500 (Windows 2000 compatibility only or FTB-400)

FTB-400/iQS-500: See the Possibilities

Connect the probe to an FTB-400 Universal Test System and iQS-500 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.

Software Analysis Features and Benefits:

- Automatic debris and defect detection, including fine scratches
- Measurement of epoxy ring for out-of-tolerance conditions
- Printable/archivable inspection results, including image data
- Based on industry standards or user-defined threshold settings
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 3.5-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, 400x or 500x 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 bulkhead adapters.

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

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

- **FIPT-SC**
  SC tip for bulkhead adapter.

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

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

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

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

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

- **FIPT-SC/SC**
  Universal Patchcord tip for 1.25-mm ferrules (LC and MU) used to view MALE connectors.

- **FIPT-U25MA**
  Universal Patchcord tip for APC 2.5-mm ferrules (SC, ST, FC and SMA) used to view MALE connectors.

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

- **FIPT-U25MA**
  Universal Patchcord tip for 2.5-mm ferrules (SC, ST, FC and SMA) used to view MALE connectors.

- **FIPT-LC-A6**
  60° angle connector for transceiver and other hard to reach connectors.

- **FIPT-D4**
  D4 tip for bulkhead adapters.

- **FIPT-MU**
  MU tip for bulkhead adapters.

- **FIPT-MTP**
  MTP tip for bulkhead adapters.

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

- **FIPT-MTRJ**
  MTRJ tip for bulkhead adapters.
**SPECIFICATIONS**

### Handheld Display
- **FIP-HD1**: Handheld video display (comes with US, Euro or UK plugs)
- **Weight**: 0.4 kg (0.8 lb)
- **Display**: 9 cm (3 1/2 in) TFT active matrix (320 x 240 pixels)
- **Video input**: NTSC, 4-pin interface probe or conversion cable for 6-pin interface and USB interface
- **Power**: Rechargeable NiMH battery or AC power adapter (comes with US, UK or EURO plugs) (110 and 220 VAC)
- **Battery life**: 2 h
- **Charging time**: 2 h
- **Dimensions (H x W x D)**: 5.3 cm x 10 cm x 22 cm (12 1/8 in x 4 in x 8 11/16 in)

### Video Inspection Probe
- **Weight**: 0.18 kg (0.4 lb)
- **Optical magnification**: 200x, 400x or 500x
- **Camera type**: CCD, 1/3 in
- **Optical magnification**: 200x, 400x or 500x
- **Weight**: 0.18 kg (0.4 lb)
- **Lighting technique**: Coaxial
- **Light source**: Blue LED, internal to probe
- **Focus control**: Adjustable in probe
- **Lighting technique**: Coaxial
- **Dimensions (H x W x D)**: 4.3 cm x 4.8 cm x 14 cm (1 1/16 in x 1 17/32 in x 5 1/2 in)

#### General Specifications
- **Temperature operating**: 0 °C to 40 °C (32 °F to 104 °F)
- **Storage**: −10 °C to 60 °C (14 °F to 140 °F)
- **Relative humidity**: 0 % to 95 % non-condensing

### Optional Accessories
- **Video Inspection Probe**
  - **FIP-P1 200x**: FIPT-FC-APC: FC tip for bulkhead adapter, FIPT-LC: LC tip for bulkhead adapter
  - **FIP-P5 200x and 400x**: FIPT-LC-APC: LC-APC tip for bulkhead adapter, FIPT-LC-L: Long-reach LC tip for bulkhead adapter
  - **FIP-HD1 500x**: FIPT-E2: Tip for E-2000 bulkhead adapter, FIPT-BIC: Biconic tip for bulkhead adapter
- **Video Output Module**
  - **FIP-VO2**: FIPT-FC: FC tip for bulkhead adapter, FIPT-ST: ST tip for bulkhead adapter
  - **FIP-VO2-EU**: FIPT-SC: SC tip for bulkhead adapter, FIPT-SC-APC: SC-APC tip for bulkhead adapter
  - **FIP-VO2-UK**: FIPT-SC-AFP: SC-AFP tip for bulkhead adapter, FIPT-P1: Tip for bulkhead adapter
- **Handheld Display**
  - **FIP-HD1**: FIPT-SC/APC: SC tip for bulkhead adapter with angled connector
  - **FIP-HD1-EU**: FIPT-SC-LC: SC-APC tip for bulkhead adapter
  - **FIP-HD1-UK**: FIPT-SC-APC: SC-APC tip for bulkhead adapter
- **USB Module and Software**
  - **FIP-USB2**: FPI-FP-5P 200x and 400x magnification
  - **FIP-USB4**: FPI-FP-5P 200x and 400x magnification

### Ordering Information

**FIP-SXX-XX**
- **Model**
  - **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-P6 200x, 400x magnification) power supply for North America
  - **FIP-S15-EU**: (FIP-P6 200x, 400x magnification) power supply for Europe
  - **FIP-S15-UK**: (FIP-P6 200x, 400x magnification) power supply for UK
- **Standard Accessories**
  - Handheld display (FIP-HD1), probe (FIP-P1 or FIP-P6), adapters: FC tip (FIPT-FC), ST tip (FIPT-ST), SC tip (FIPT-SC), universal 2.5 mm patchcord tip (FIPT-U25M), carrying case (FIPT-HSC1).
  - **Example**: FIP-S15

**FIP-USBX**
- **Model**
  - **FIP-USB2**: (FIP-P1 200x magnification)
  - **FIP-USB4**: (FIP-P5 200x and 400x magnification)
- **Standard Accessories**
  - USB module (FIP-USB) and software (Windows 2000 compatibility only), probe (FIP-P1 or FIP-P6), FC tip (FIPT-FC), ST tip (FIPT-ST), SC tip (FIPT-SC), universal 2.5 mm patchcord tip (FIPT-U25M).
  - **Example**: FIP-USB4

**FOT-930 Add-On**
- **FP1**: (FIP-P1 200x magnification)
- **FP5**: (FIP-P5 200x and 400x magnification)
- **Standard Accessories**
  - Probe (FIP-P1 or FIP-P6), FC tip (FIPT-FC), SC tip (FIPT-SC), universal 2.5 mm patchcord tip (FIPT-U25M).

### Find out more about EXFO’s extensive line of high-performance portable instruments by visiting our website at [www.exfo.com](http://www.exfo.com).