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FLUKE networks

FT600

FiberInspector™ Pro Video Microscope

Instruction Sheet

The FT600 FiberInspector™ Pro video microscope is a hand-held, dual-magnification probe and display used to inspect the ends of fiber optic connectors through bulkhead adapters. The video microscope lets you view fiber end faces that cannot be accessed by traditional fiber microscopes.

The video microscope comes with the following:

- FT650 Fiber Probe
- FT630 Fiber Display
- AC adapter/battery charger
- Probe adapter tips (ST, SC, FC, and universal 2.5 mm patch cord tip)
- Instruction sheet
- Hard carrying case

If anything is missing or damaged, contact the place of purchase immediately.

Safety Information

Warning

To avoid possible eye damage caused by hazardous radiation, never look directly into optical output connectors. Some sources produce invisible radiation that can permanently damage your eyes.

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To avoid possible fire, electric shock, or personal injury:

- **Do not open the case; no user-serviceable parts are inside.**
- **Use only the ac adapter provided to power the display and charge the battery.**

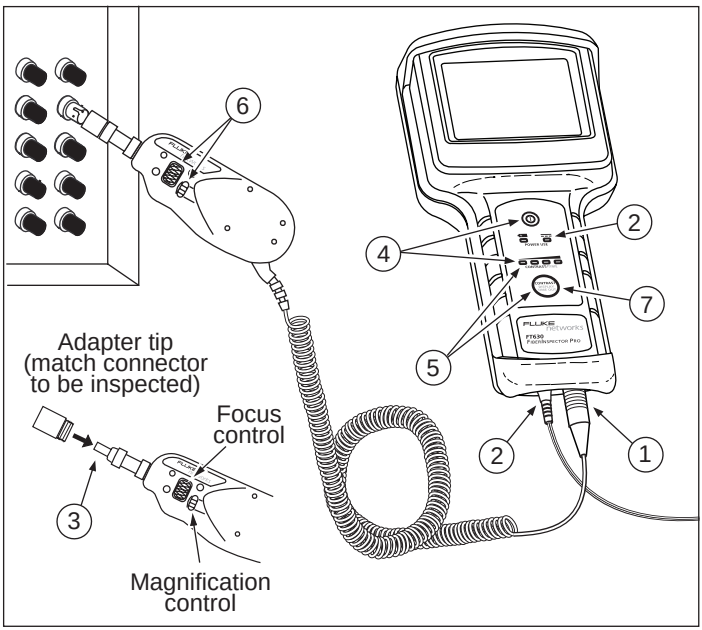
Powering the Microscope

Before you power the video microscope with the battery for the first time, charge the battery with the ac adapter for about 4 hours. You can use the video microscope while the battery charges. A fully-charged battery lasts about 3 hours.

Features and Use

Caution

Some adapter tips have small screws that slide into a slot on the probe end. Do not adjust this screw.



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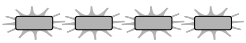
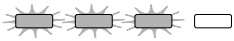
① Connect the FT650 Fiber Probe to the display.

② To ensure continuous operation, connect the ac adapter whenever possible. The ac power LED (⎓) lights when the ac adapter is connected. The LEDs turn on from left to right as the battery approaches full charge. The battery LED (+) lights when the display is using battery power.

③ Screw an adapter tip onto the fiber probe to match the connection you are inspecting.

④ Press the power key to turn on the display. The LEDs indicate battery charge level for 5 seconds:

LEDs	Battery Charge Level
	75% - 100 %
	50 % - 75 %
	25 % - 50 %
	1 % - 25 %

⑤ CONTRAST / DISPLAY TIME OUT

The power-down timer sets the time the display stays on. To select a time, hold down the contrast/timer key, then release it when the desired LEDs light:

LEDs	Power-down Timer
	15 seconds
	30 seconds
	60 seconds
	Timer disabled

⑥ Turn the larger ring on the probe to focus the image. Turn the smaller ring to change magnification.

⑦ CONTRAST / DISPLAY TIME OUT

Press the contrast/timer key briefly to change the display contrast.

Accessories

The following accessories are available from Fluke Networks for the FT600 FiberInspector Pro microscope.

Description	Fluke Model
TPak™ meter hanging kit (Lets you hang the display from a strap or a magnet.)	TPAK
Fiber Optic Cleaning Kit	NF430
MT-RJ adapter tip	NF360
LC adapter tip	NF362
MU adapter tip	NF364
AC adapter (100 V – 240 V)	Contact Fluke Networks
LiIon battery pack	Sony® type NP-550

Specifications

FT600 General Specifications

Temperature range	Operating: 0 °C to 40 °C Storage: -10 °C to +60 °C
Humidity range	Operating: 0 % to 45 % RH non-condensing; Storage: 0 % to 95 % RH non-condensing
Certifications	CE

FT630 Fiber Display

Display type	3.5 in (9 cm) TFT, active matrix, 320 x 240 pixels
Video input	NTSC
Power source	Lithium ion battery or ac power
Battery life	2 hours continuous use
Dimensions	4 in x 2.1 in x 8.7 in (10 cm x 5.3 cm x 22 cm)
Weight	0.8 lb (0.4 kg)

Back to the FT500 Product Info Page
Back to the FT600 Product Info Page
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FT650 Fiber Probe

Magnification	250X and 400X
Camera type	0.33 in (8.38 mm) CCD with adjustable focus
Light source	LED
Power source	From FT630
Lighting technique	Coaxial
Dimensions	1.8 in x 1.7 in x 5.5 in (45.7 mm x 43.2 mm x 140 mm) (length depends on adapter tip)
Weight	0.4 lb (180 g)

Registration

Registering your product with Fluke Networks gives you access to valuable information on product updates, troubleshooting tips, and other support services. To register, fill out the online registration form on the Fluke Networks website at **www.flukenetworks.com/registration**.

LIMITED WARRANTY & LIMITATION OF LIABILITY

Fluke Networks products will be free from defects in material and workmanship for one year from the date of purchase. Parts, accessories, product repairs and services are warranted for 90 days. This warranty does not cover disposable batteries, cable connector tabs, cable insulation-displacement connectors, or damage from accident, neglect, misuse, alteration, contamination, or abnormal conditions of operation or handling. Resellers are not authorized to extend any other warranty on Fluke Networks' behalf. To obtain service during the warranty period, contact your nearest Fluke Networks authorized service center to obtain return authorization information, then send your defective product to that Service Center with a description of the problem.

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