

# FT120/FT140 Fiber Viewer Instruction Sheet

The Fluke Models FT120 and FT140 Fiber Viewers are hand-held microscopes used to inspect the ends of fiber optic connectors. Model FT120 offers 200X magnification and Model FT140 offers 400X magnification. The Fiber Viewer includes an infrared safety filter to protect your eyes if you inadvertently look at a fiber connected to an active laser source.

The Fiber Viewer comes with the following:

- 2.5 mm universal ferrule adapter
- Soft case
- 3 AAA batteries
- Instruction sheet
- Warranty registration card
- Desiccant packet

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

## Accessories

Fluke offers a variety of adapter caps for viewing specific fiber optic connectors, including small form-factor connectors. Contact Fluke for a current list of adapters.

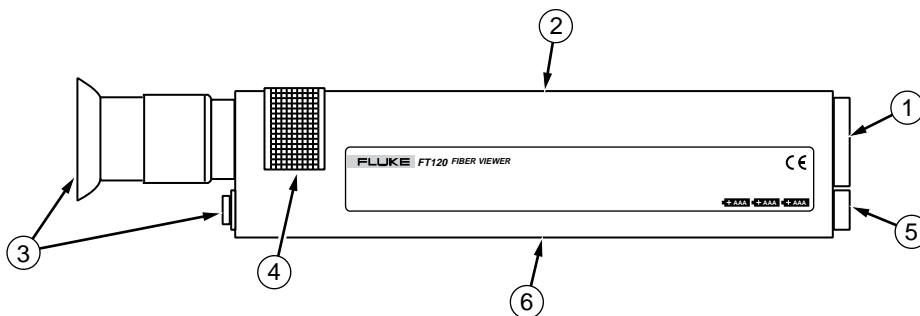
## Safety Information



**Warning**

**To avoid possible eye damage caused by hazardous, invisible radiation, always use an optical power meter or other appropriate light detector to verify that no infrared light is being transmitted through the fiber to be inspected.**

## Features and Use



- ① Adapter cap. Slide the end of a fiber into the adapter cap until the fiber stops. To install an optional adapter cap, unscrew the installed cap; then screw on the optional cap.
- ② Illumination port. Insert the opposite end of the fiber into the port to light up the fiber core. Lighting the core can improve the visibility of certain flaws.
- ③ Eyepiece and light switch. Hold down the light switch while looking into the eyepiece.
- ④ Focusing dial. Turn the dial until the image is clear.
- ⑤ Battery hatch. Unscrew the hatch to access the batteries.
- ⑥ LED service hatch. No user-serviceable parts are inside. Opening the hatch voids the warranty.

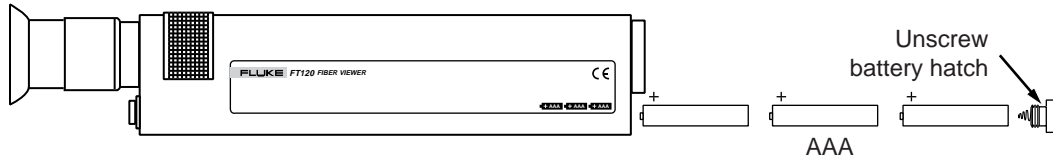
## Maintenance

- Clean the Fiber Viewer case with a soft cloth dampened with water or a mild detergent. Do not use solvents or abrasive cleansers.
- Clean the eyepiece lens with an optical-grade swab or tissue moistened with optical-grade alcohol.
- To clean the objective lens, unscrew the adapter cap; then gently wipe the lens in the Fiber Viewer with optical grade cleaning materials.

- Store the Fiber Viewer in the softcase when not in use.
- Do not open the case, except to replace the batteries. No user-serviceable parts are inside.

## Replacing the Batteries

Replace the batteries, as shown below, when the light becomes dim or does not turn on.



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## Specifications

### Optical Laser Safety Filter

Specification	Wavelength		
	850 nm	1310 nm	1550 nm
Optical Density	2.05	5.10	4.30
Attenuation	20.5 dB	51.0 dB	43.0 dB
Peak Power Rating*	49 mW	1000 W	190 W

### General Specifications

<b>Magnification</b>	FT120: 200X; FT140: 400X
<b>Fiber adapter</b>	2.5 mm universal ferrule adapter for multimode or singlemode fibers
<b>Power supply</b>	Three 1.5 V AAA batteries (NEDA 24A or IEC LR03). 35 hours typical use with alkaline batteries.
<b>Light source</b>	White LED (100,000 hour life)

### LIMITED WARRANTY AND LIMITATION OF LIABILITY

This Fluke product will be free from defects in material and workmanship for one year from the date of purchase. This warranty does not cover fuses, disposable batteries, 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's behalf. To obtain service during the warranty period, contact your nearest Fluke authorized service center to obtain return authorization information, then send the product to that Service Center with a description of the problem.

THIS WARRANTY IS YOUR ONLY REMEDY. NO OTHER WARRANTIES, SUCH AS FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSED OR IMPLIED. FLUKE IS NOT LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, ARISING FROM ANY CAUSE OR THEORY.

Since some states or countries do not allow the exclusion or limitation of an implied warranty or of incidental or consequential damages, this limitation of liability may not apply to you.

Fluke Corporation  
P.O. Box 9090  
Everett, WA 98206-9090  
U.S.A.

Fluke Europe B.V.  
P.O. Box 1186  
5602 BD Eindhoven  
The Netherlands

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