

FI-3000/FI-3000-NW FiberInspector™ Pro Getting Started Guide

The FI-3000 and FI-3000-NW FiberInspector Pro (the Product or Probe) are hand-held video probes used with a Versiv™ Series tester (the Tester) or with the FI-IN™ app (the App) on a mobile device to inspect fiber optic endfaces. The Probe and Tester or App let you see dirt, scratches, and other defects that can cause unsatisfactory performance or failures in fiber optic networks.

Use the Probe with a direct USB connection to a Tester to view and analyze endfaces and save and share test results. To do this wirelessly, use the FI-3000 probe with the App. The FI-3000-NW probe cannot be used with WiFi or the App.

Safety Information

A **Warning** identifies hazardous conditions and procedures that are dangerous to the user. A **Caution** identifies conditions and procedures that can cause damage to the Product or the equipment under test.

Warning









To prevent possible electrical shock, fire, or personal injury and for safe operation of the Product:








- Read all safety information before you use the Product.
- Carefully read all instructions.
- Do not alter the Product and use only as specified, or the protection supplied by the Product can be compromised.
- Do not use the Product if it operates incorrectly.
- Do not use the Product if it is altered or damaged.
- Disable the Product if it is damaged.

- Use only Fluke Networks approved power adapters to supply power to the Product and charge the battery.
- Charge the battery indoors.
- If the Product gets hot, disconnect the battery charger and move the Product to a cool, non-flammable location.
- Replace the rechargeable battery after 5 years of moderate use or 2 years of heavy use. Moderate use is defined as recharged twice a week. Heavy use is defined as discharged to cutoff and recharged daily. To replace the battery, send the Product to an authorized Fluke Networks Service Center.
- Have an approved technician repair the Product.
- Do not open the case. You cannot repair or replace parts in the case.

Symbols

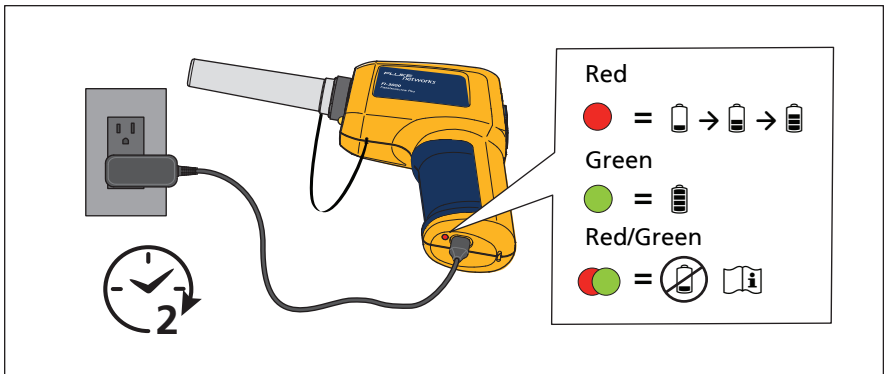
The table below lists the symbols that can be used on the Product or in this document.

| Symbol | Description |
|---|--|
|  | Consult user documentation. |
|  | WARNING. RISK OF DANGER. |
|  | WARNING. HAZARDOUS VOLTAGE. Risk of electric shock. |
|  | Conforms to European Union directives. |
|  | Conforms to relevant Australian Safety and EMC standards. |
|  | Certified by CSA Group to North American safety standards. |
|  | Conforms to the Appliance Efficiency Regulation (California Code of Regulations, Title 20, Sections 1601 through 1608), for small battery charging systems. |
|  | This Product contains a lithium-ion battery. Do not mix with the solid waste stream. Spent batteries should be disposed of by a qualified recycler or hazardous materials handler per local regulations. Contact your authorized Fluke Service Center for recycling information. |

| Symbol | Description |
|---|--|
|  | 40 year Environment Friendly Use Period (EFUP) under China Regulation - Administrative Measure on the Control of Pollution Caused by Electronic Information Products. This is the period of time before any of the identified hazardous substances are likely to leak out, causing possible harm to health and the environment. |
|  | This product complies with the WEEE Directive marking requirements. The affixed label indicates that you must not discard this electrical/electronic product in domestic household waste. Product Category: With reference to the equipment types in the WEEE Directive Annex I, this product is classed as category 9 "Monitoring and Control Instrumentation" product. Do not dispose of this product as unsorted municipal waste. |
|  | Auto Focus |
|  | Push to do a test. |
|  | PortBright™ LED on/off |
|  | On/Off |
|  | Push to return to the home screen on the Tester. |

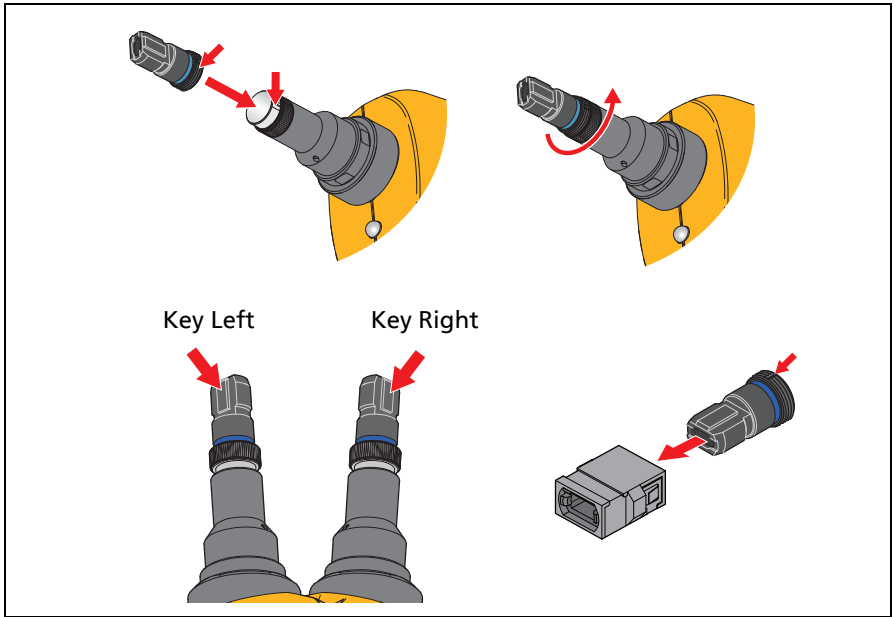
Charge the Battery

Before you use the Probe for the first time, charge the battery for ≥ 2 hours.

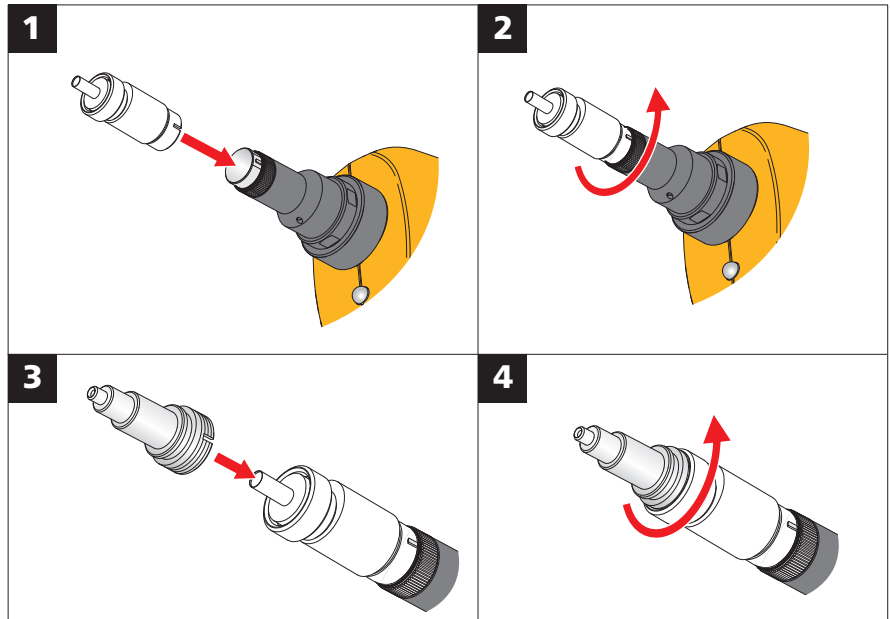


Attach the Correct Tip

MPO Tips and Adapters

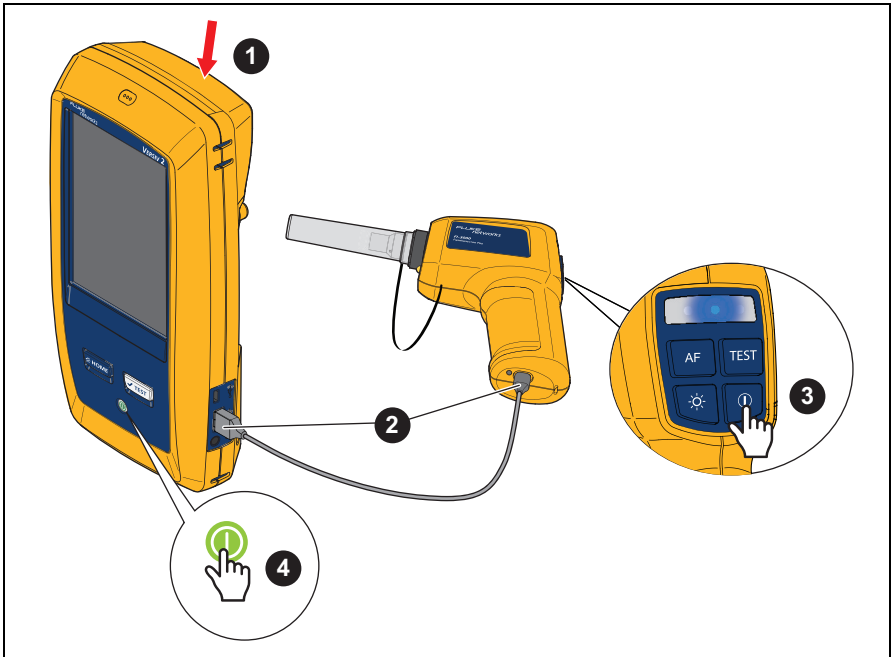


Single Fiber Adapters and Tips



Use the Probe with a Tester

Set up the Probe and Tester



Select Test Settings and Set Key Position on the Tester

1. On the home screen, tap the test setup panel (The panel below where it says **PROJECT**).
2. Tap **NEW TEST > Module > FiberInspector Pro**.
The **TEST SETUP** screen shows on the display.
3. Select settings as necessary.
4. For MPO tests, set the key position:
 - a. Tap **Key Position**.
 - b. Select **Key Left** or **Key Right** to agree with the key position of the tip on the probe. This lets you rotate the probe when a cabinet door or other surface prevents movement of the probe.
5. Tap **SAVE**.

Inspect Endfaces

1. Insert the probe into a bulkhead or patch cord adapter.



2. Tap **TEST** on the Tester, or push **TEST** on the Probe to view a live image of the endface on the display.
3. On the Tester, tap **ANALYZE**.

For MPO tests:

The fiber numbers on the image of the endface on the display agree with the fiber locations on the connector. This is called fiber number agreement.

If you rotate the adapter or tip on the probe, change the **Key Position** on the **TEST SETUP** screen to maintain fiber number agreement.

View and Save Results

1. If necessary, tap the endface graphic to see a high-resolution image.
2. Use finger gestures to move and zoom the image.
3. If necessary, tap the endface in the high-resolution image to see highlighted defects on an endface.
4. To see or hide the Pass/Fail Highlights, Rings, or Scale, tap **OVERLAYS**.
5. To save the result in the current project, tap **SAVE** on any results screen.

Use the Probe with a Mobile Device

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Select Test Settings and Set Key Position in the App

1. Tap  >  (Current Project). To create a new project, tap  (Manage Projects) >  (Add).
2. Select settings as necessary, and tap **Save**.
3. For MPO tests:
 - a. Tap  (Key).
 - b. Select **Key Left** or **Key Right** to agree with the key position of the tip on the probe. This lets you rotate the probe when a cabinet door or other surface prevents movement of the probe.
 - c. Tap **Select**.

Inspect Endfaces



1. Insert the probe into a bulkhead or patch cord adapter.



2. Tap  (Test) in the App, or push  on the Probe to capture an image of the endface in the App.
3. For MPO tests:

The fiber numbers on the image of the endface on the display agree with the fiber locations on the connector. This is called fiber number agreement. If you rotate the adapter or tip on the probe, change the key position to **Key Left** or **Key Right**, as appropriate to maintain fiber number agreement.

View, Share, or Save Results

1. On the **TEST RESULT SUMMARY** screen, if necessary, tap the endface graphic to see a high-resolution image.
2. Use finger gestures to move and zoom the image.
3. If necessary, tap the endface in the high-resolution image to see highlighted defects on an endface.
4. To see or hide the overlay that shows the yellow zone rings and the green (**PASS**) or red (**FAIL**) highlighted defects, tap the image.
5. To send the image or test report to an email recipient or social media account, tap  (**Share**).
6. To save the result in the current project, tap  (**Save**).

Learn More

To view, print, or download the latest manual or manual supplement, visit www.flukenetworks.com/support/manuals.

To read articles in the Knowledge Base, visit www.flukenetworks.com/knowledge-base.

To request a printed manual, visit www.fluke.com/productinfo.

Registration

Registering your product with Fluke Networks gives you access to valuable information on product updates, troubleshooting tips, and other support services.

To register the Probe:

1. Go to www.flukenetworks.com and download the LinkWare PC software.
2. Do a test with the Probe and Tester and save the result.
3. Import the result into LinkWare PC software.
4. Follow the prompts in the software to register your product.

Contact Fluke Networks



www.flukenetworks.com/support



info@flukenetworks.com



1-800-283-5853, +1-425-446-5500



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Fluke Networks operates in more than 50 countries worldwide. For more contact information, go to our website.

General Specifications

| | |
|---|--|
| Battery | Lithium-ion, 3.6 V, 6400 mAh |
| AC power adapter | |
| Input | 100 VAC to 240 VAC $\pm 10\%$, 50/60 Hz |
| Output | 15 VDC, 2 A maximum, Class II |
| Temperature | |
| Operating | -10 °C to 45 °C (14 °F to 113 °F) |
| Storage | -10 °C to 60 °C (14 °F to 140 °F) |
| Charging | 0 °C to 40 °C (32 °F to 104 °F) |
| Wireless radio | |
| Frequency | 2400 MHz to 2483.5 MHz |
| Output power | <100 mW |
| For more information, go to www.flukenetworks.com/support/manuals , select the product name, then find <i>Radio Frequency Data for Class A</i> in the list of manuals. | |
| Altitude | |
| Operating | 4000 m (3200 m with AC adapter) |
| Storage | 12 000 m |

| Electromagnetic Compatibility (EMC) | |
|-------------------------------------|--|
| International | IEC 61326-1: Basic Electromagnetic Environment; CISPR 11: Group 1, Class A <i>Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself.</i> <i>Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances.</i> <i>Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.</i> |
| Korea (KCC) | Class A Equipment (Industrial Broadcasting & Communication Equipment) <i>Class A: Equipment meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.</i> |
| USA (FCC) | 47 CFR 15 Subpart C Sections 15.207, 15.209, 15.249 |

SIMPLIFIED EU DECLARATION OF CONFORMITY

The simplified EU declaration of conformity referred to in Article 10(9) shall be provided as follows: Hereby, Fluke Networks declares that the radio equipment contained in this Product is in compliance with Directive 2014/53/EU. The full text of the EU declaration is available at the following internet address: <https://www.fluke.com/red>.

Documentation and Software Licensing Notice

CDs or other computer media are no longer included in the box.

For user documentation, go to www.flukenetworks.com/products.

For products containing software licensed under the “GNU General Public License (GPL) or Lesser GNU General Public License (LGPL)”, the complete corresponding sources are available. You can order a complete machine-readable copy of the source code from Fluke Networks for a period of three (3) years after receipt of the product. Send a written request to:

Open Source Request

Fluke Networks

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Everett, WA 98203

Please include:

- Your full name
- Your company name
- Product model, serial number, and software revision level
- Your return mailing address
- Your email address (if available)

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