

CertiFiber® Pro

Optical Loss Test Set

Getting Started Guide

The CertiFiber Pro Optical Loss Test Set (OLTS) modules attach to Versiv™ main and remote units to make rugged, hand-held testers that let you certify, troubleshoot, and document fiber optic network cabling.

Accessing the Product Manuals

This guide provides basic information to help you get started using the tester. For more detailed information, see the latest versions of the *CertiFiber Pro Users Manual* and the *Versiv Technical Reference Handbook* provided on the Product Manuals CD and on the Fluke Networks website.



To avoid possible fire, electric shock, personal injury, damage to equipment, or inaccurate test results, read the safety information in the *CertiFiber Pro Users Manual* before you use the tester.

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.

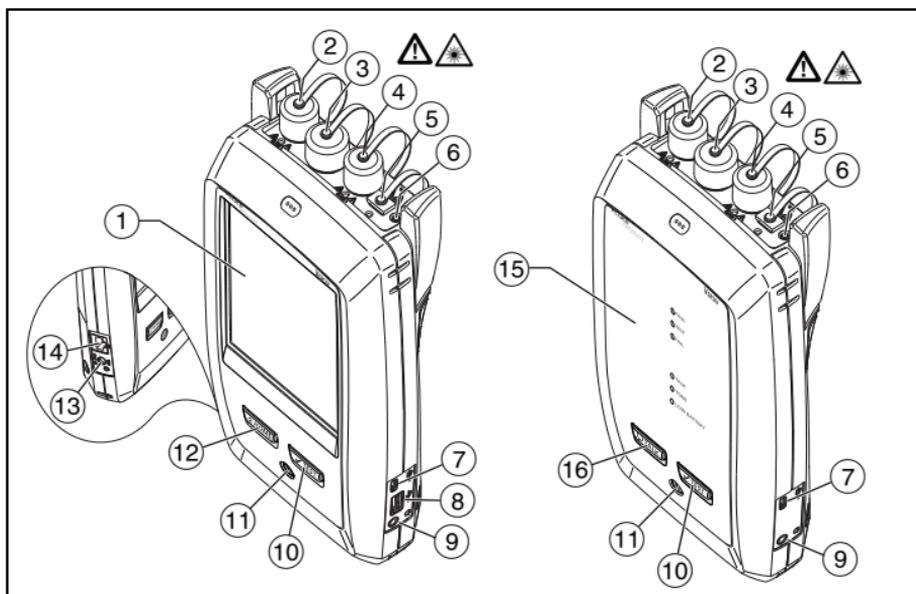


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Connectors, Keys, and LEDs



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Figure 1. Connectors, Keys, and LEDs

- ① LCD display with touchscreen.
- ② Singlemode output port with removable connector adapter and dust cap. This port transmits optical signals for loss and length measurements.

The LED below the output port is red when the port transmits 1310 nm and green for 1550 nm.
- ③ Input port with removable connector adapter and dust cap. This port receives optical signals for loss, length, and power measurements.
- ④ Multimode output port with removable connector adapter and dust cap. This port transmits optical signals for loss and length measurements.

The LED below the output port is red when the port transmits 850 nm and green for 1300 nm.
- ⑤ Universal fiber connector (with dust cap) for the visual fault locator. The connector accepts 2.5 mm ferrules. The LED below the connector shows the locator's mode.
- ⑥ Button to manually control the output ports (② and ④) and the visual fault locator (⑤).
- ⑦ Micro-AB USB port: This USB port lets you connect the tester to a PC so you can upload test results to the PC (main tester only) and install software updates in the tester.
- ⑧ Type A USB port: This USB host port lets you save test results on a USB flash drive or connect a video probe to the tester.
- ⑨ Headset jack.

- ⑩ : Starts a test. To start a test, you can also tap **TEST** on the display.
- ⑪ Power key.
- ⑫ : Press  to go to the home screen.
- ⑬ Connector for the AC adapter.
- ⑭ RJ45 connector: For functions available in future software releases.
- ⑮ **PASS** LED comes on when a test passes.
TEST LED comes on during a test.
FAIL LED comes on when a test fails.
TALK LED comes on when the talk function is on (see ⑯).
TONE LED flashes when the main tester sends a request to talk.
LOW BATTERY LED comes on when the battery is low.
- ⑯ : Press  to use the headset to speak to the person at the other end of the link. Press again to adjust the volume. To turn off the talk function, hold down .

How to Certify Fiber Optic Cabling

1. Power the Tester

Charge the battery if necessary. Connect the AC adapter to AC power and to the adapter connector (⑬) shown in Figure 1. You can use the tester while the battery charges.

2. Select Settings

2-1 On the home screen, tap the test setup panel (Figure 2).

2-2 On the **CHANGE TEST** screen, tap a fiber test, then tap **EDIT**.

2-3 On the **TEST SETUP** screen, tap the panels to change settings:

- **Test Type:** Select **Smart Remote**.
- **Bi-Directional:** Select **On**. The tester will do fiber tests in both directions.
- **Fiber Type:** Select a fiber type that is correct for the type you will test.
- **Test Limit:** Select **General Fiber Optic**.
- **Reference Method:** Select **1 Jumper Reference**.
- **No. of Connectors/Splices:** These settings are only for test limits that use a calculated limit for loss. They are not applicable to the **General Fiber Optic** limit.

2-4 To save the settings, tap **SAVE** on the **TEST SETUP** screen.



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- ① To set up a project, tap the **PROJECT** panel.
- ② To change settings for the test or select a different test, tap the test setup panel.
- ③ To set up cable IDs and turn on **Auto Save**, tap the **Next ID** panel.
- ④ To enter the operator name, tap the **Operator** panel.
- ⑤ To set the reference and verify your test reference cords for loss/length tests, tap **SET REF**.

Figure 2. Panels on the Home Screen

3. Clean and Inspect All Connectors

Caution

Use proper cleaning procedures to clean all fiber connectors before every use. Neglecting this step or using improper procedures can cause unreliable test results and may permanently damage the connectors. See the Users Manual for instructions.

4. Set the Reference and Verify Your Test Reference Cords

The reference procedure for fiber cable sets a baseline power level for loss measurements. It is important to set the reference frequently. You must also make sure your test reference cords are in good condition. See the Users Manual.

- 4-1 Turn on the tester and remote and let them sit for a minimum of 5 minutes. Let them sit longer if they are above or below ambient temperature.
- 4-2 Make sure that the home screen shows the correct settings
- 4-3 Clean and inspect the connectors on the tester, remote, and test reference cords.
- 4-4 On the home screen tap **SET REF**.
- 4-5 On the **SET REFERENCE** screen, tap **RUN WIZARD**.
- 4-6 Make the connections shown on the screen, then tap **NEXT** to see the completed connections (**Reference** in Figure 3).

Note

When you set the reference, align the testers as shown in Figure 3 to keep the fibers as straight as possible.

- 4-7 To enter the length of the test reference cords you will add to connect to the link, tap **TRC LENGTH** on the **SET REFERENCE** screen. The length you enter does not change the test results. The tester saves the length with the results to meet TIA reporting requirements.
- 4-8 Tap **SET REFERENCE**, tap **NEXT**, then make the connections shown on the screen (**TRC Verification** in Figure 3)
- 4-9 Tap **TRC VERIFICATION**. The tester measures and saves the loss of the test reference cords you added.

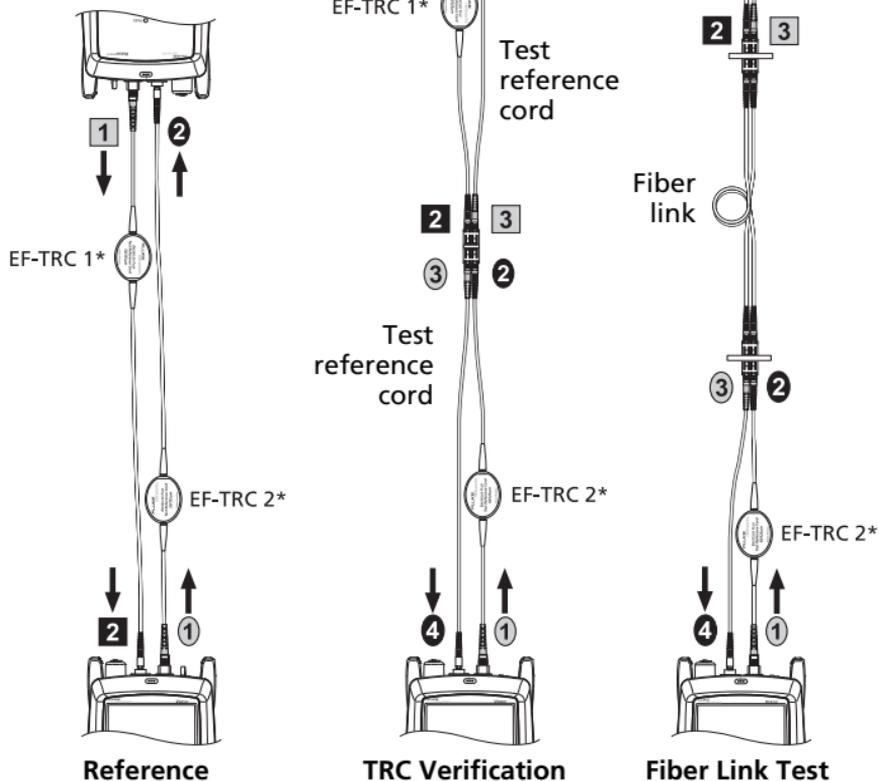
5. Make Connections and Do a Test

- 5-1 Tap **NEXT**. Connect the testers to the link as shown on the screen (**Fiber Link Test** in Figure 3).
- 5-2 Press **TEST** on the main or remote tester.

Caution

Do not disconnect the outputs (1 and 1) after you set the reference.

When you use the EF-TRCs, DO NOT use other mandrels.



* Use the EF-TRCs only with multimode modules.

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Figure 3. Connections for Smart Remote Mode (1 Jumper Reference, Multimode Fiber)

6. Examine the Results

The tester shows a summary of the test results for the fibers (Figure 4, left). To see more information (Figure 4, right), tap the window for a fiber.

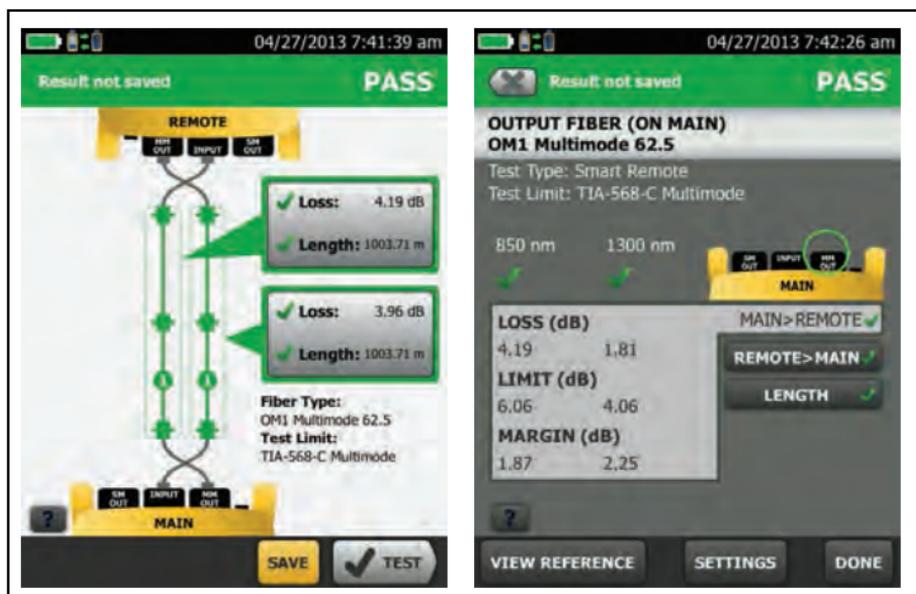


Figure 4. Examples of Fiber Test Results Screens

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7. Save the Results

- If **Auto Save** is on, the tester uses the next two IDs to save the results for the two fibers.
- If **Auto Save** is off, tap **SAVE** if the test passed or **FIX LATER** if the test failed. The **SAVE RESULT** screen shows the next two IDs available. You can change the IDs if necessary.

The tester saves the results in the **DEFAULT** project, unless you selected a different project.

About Projects

You can set up a project to specify the settings and tests necessary for a job, monitor the status of a job, and organize the test results.

To start a new project, tap **PROJECT** on the home screen, tap **CHANGE PROJECT**, then tap **NEW PROJECT**. See the Users Manual or Technical Reference Handbook on the CD for more information.

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