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.

⚠️ **Warning**

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.
Connectors, Keys, and LEDs

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.
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.
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 \(\text{✓TEST}\) on the main or remote tester.
Caution
Do not disconnect the outputs (1 and 4) after you set the reference.

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

* Use the EF-TRCs only with multimode modules.

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](HGP02.EPS)

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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