



WireXpert Fiber Cable Certifier series



For more detailed information on how to use and specification of the product, please scan QR code to read the User Manual for more information.

<https://itnetworks.softing.com/WireXpert-MP>



This product shall only be used within the conditions listed in the main manual and datasheet. Please refer to the user manual and datasheet for more information.



CAUTION
Do not connect device to a voltage source such as an active telephone jack. Excessive voltage will damage the units and the adapter and void the warranty.

© Softing Singapore Pte. Ltd. In line with our policy of continuous improvement and feature enhancement, product specifications are subject to change without notice. All rights reserved. Softing and the Softing Logo are trademarks or registered trademarks of Softing AG. All other trademarks, registered or unregistered, are sole property of their respective owner.

For more information, please refer to <https://itnetworks.softing.com/>

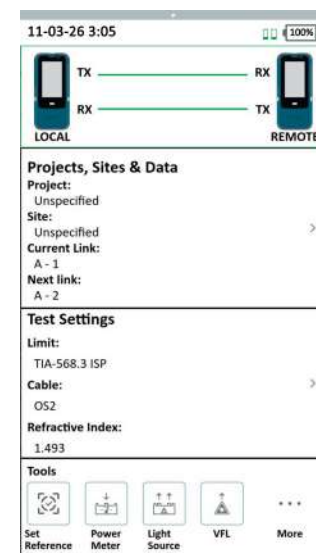
Version 3.6.14



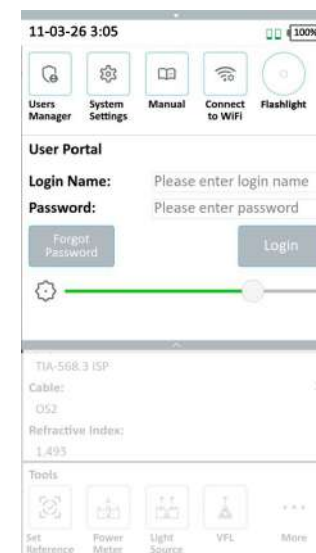
Sync your measurement data with your preferred cloud service using the ITN Sync app



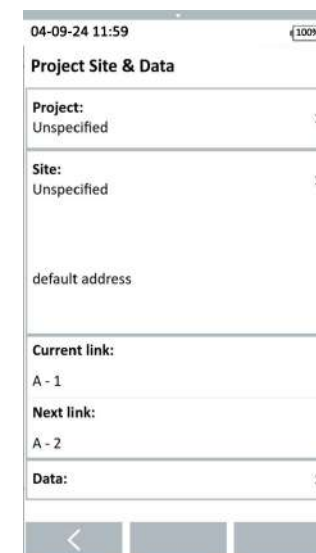
User Interface



Home screen



Slide-down menu



Project, Site & Data

1. The **Slide-down menu** can be triggered by performing a swipe-down action from the top of the screen. It provides quick accessible options to user and device configurations. Slide the menu upwards or press the **[Home]** button to hide menu.
2. The **Status bar** displays the current date & time, Wi-Fi connectivity status, USB connectivity status, device connectivity status and battery level. Tap icons to change or view setting.
3. **Copper Connection Status** - Reports instantaneous wiremap reading when a LOCAL and REMOTE unit are connected.
4. **Project, Site & Data** - Project oriented configurations and information, such as site information and test results.
5. **Test Settings** - Test oriented configurations, such as cable and connector selection, test limits and options.
6. **Tools** - Advanced and single test applications.

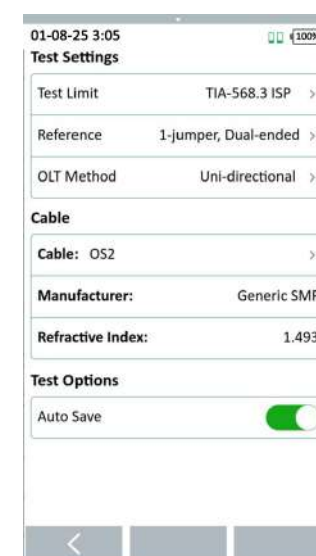
Configuring Device



Project > Add Project



Site > Add Site



Test Settings

1. Swipe downwards from the top of the screen to bring down the slide-down menu.
 - a. Under User Portal, login using the designated credentials.
2. From the Home screen, select **[Project, Site & Data]**
3. Select **[Project]**
 - a. Select or create a new Project
 - b. Tap **[Back]** to return to the previous screen

4. Select **[Site]**
 - a. Select or create a new Site
 - b. Select **[Label Source]**
5. Press the **[Home]** button to return to the Home screen
6. Select **[Test Settings]**
 - a. Select **[Test Limits]**.
 - b. Select **[Reference]**. Select if reference method is based on 1, 2 or 3 jumpers method, and if test is single-ended loopback or dual-ended.
 - c. Select **[OLT Method]**. Select if test is uni-directional or bi-directional.
 - d. Select **[Cable]**. Select Generic SMF or Generic MMF if unsure of manufacturer.
7. Press the **[Home]** button and select **[Set Reference]**.

Setting Reference

It is necessary to perform a set reference measurement if the LOCAL and REMOTE units are being paired for the first time. If there is a mismatch in firmware versions or a set reference has not been performed, AUTOTEST will be denied, until these conditions are corrected. Please also ensure that the calibration dates of the devices have not expired.

Notes

1. The examples shown use the FQ module, which has two TX ports. When facing the touchscreen, the ports from left to right are: TX for singlemode, RX for both singlemode and multimode, and TX for multimode.
2. Please ensure the fiber cables are cleaned using the cleaning kit provided in the cord kit.
3. Fiber-AB: LOCAL TX (A) → REMOTE RX (B) (standard)
Fiber-BA: REMOTE TX (B) → LOCAL RX (A) (reverse)

TRC Verification

TRC Verification (Test Reference Cord Verification) is used to confirm that the test reference cords are in good condition before performing fiber certification. Please refer to User Manual for more information.

To set reference,

1. Select **[Test Settings]** from the Home screen.
2. Select **[Reference]** →
 - a. Select if reference method is **1, 2 or 3-Jumper method**
 - b. Select if test method is **Single-ended loopback** or **Dual-ended**.
3. Select **[Set Reference]** from the Tools section
4. Tap to edit TRC length and Refractive Index.

1 Jumper Dual-ended

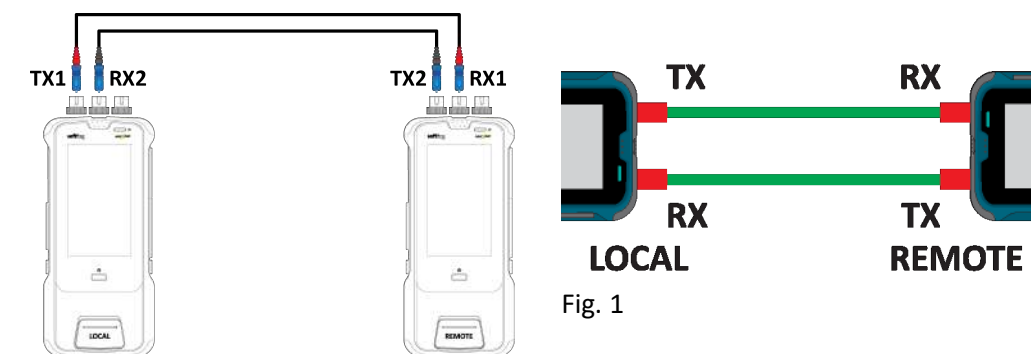


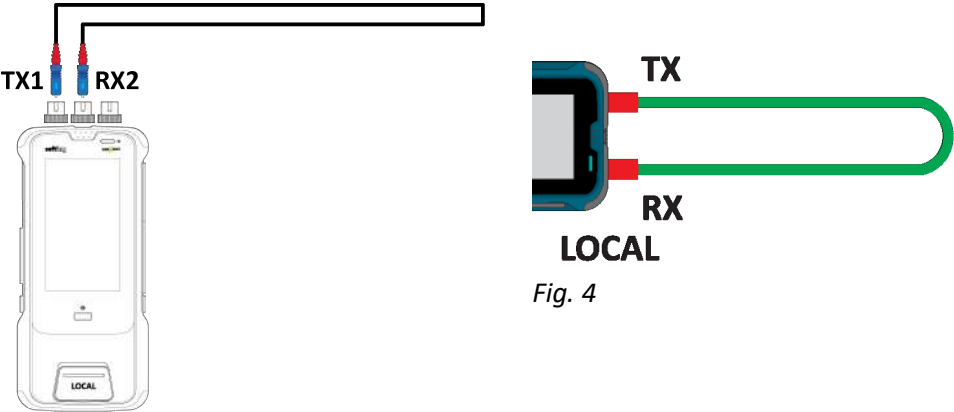
Fig. 1

To set reference,

1. Connect TX1 to the LOCAL TX port and RX1 to the REMOTE RX port.
2. Connect TX2 to the REMOTE TX port and RX2 to LOCAL RX port.
3. Tap the **[Next]** button on the Set Reference screen.
4. Check that the Set Reference result is between **-5.35 and 4 dBm** for single-mode and between **-25.35 and -15 dBm** for multimode.

- Enable **[TRC Verification]** to perform verification test on the second set of test reference cords.
- Keeping the cords on the TX ports connected to both ends of the device, connect the other end of each cord to a coupler.
 - Connect another test reference cord to the RX ports of both devices and the other end of the cord to the coupler.
 - Tap the **[Next]** button on the Set Reference screen.
 - Check that the Set Reference result is between **-5.35 and 4 dBm** for single-mode and between **-25.35 and -15 dBm** for multimode.

1 Jumper Single-ended Loopback



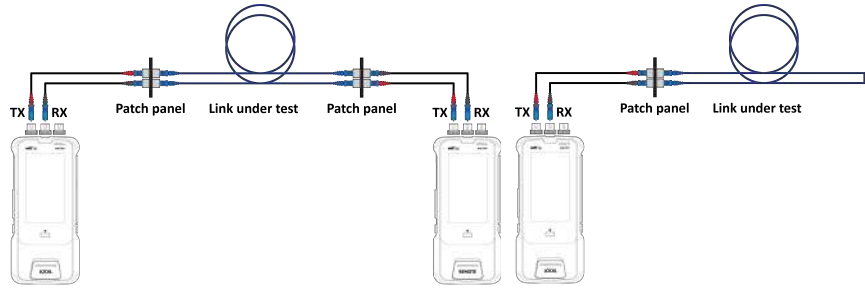
- To set reference,
- Connect the TX1 and RX1 ends of the reference cord to the TX port RX port of the adapter respectively.
 - Tap the **[Next]** button on the Set Reference screen.
 - Check that the Set Reference result is between **-5.35 and 4 dBm** for single-mode and between **-25.35 and -15 dBm** for multimode.

- Enable **[TRC Verification]** to perform verification test on the second set of test reference cords.
- Keeping the cords on the TX ports connected to both ends of the device, connect the other end of each cord to a coupler.
 - Connect another test reference cord to the RX ports of both devices and the other end of the cord to the coupler.
 - Tap the **[Next]** button on the Set Reference screen.
 - Check that the Set Reference result is between **-5.35 and 4 dBm** for single-mode and between **-25.35 and -15 dBm** for multimode.

Please refer to User Manual for more information on 2-jumpers and 3-jumpers referencing method.

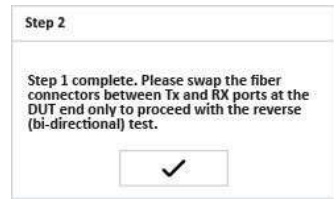
Performing an Autotest

Testing Guide for Uni-directional OLT Method



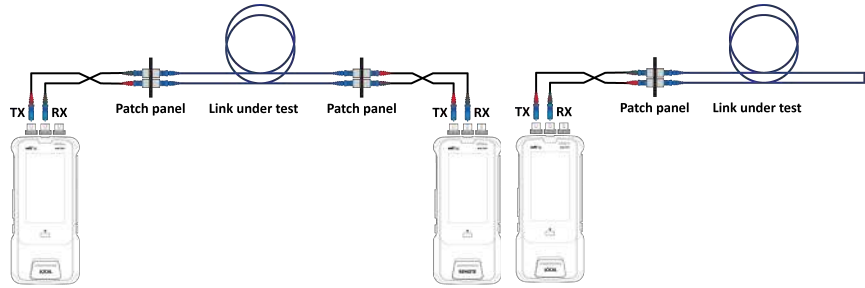
1. Press the AUTOTEST button to begin AUTOTEST. WireXpert MP will use the last configuration or factory settings to perform the AUTOTEST if new settings are not configured.

Testing Guide for Bi-directional OLT Method



Step-2 prompt

- If Bi-directional is selected, a Step-2 notification will be prompted.
- To perform Step-2,
- Disconnect and swap TX and RX connectors at the near (equipment) end.
 - Repeat and disconnect and swap TX and RX connectors at the far (equipment) end.
 - Tap the **[Okay]** button to proceed.

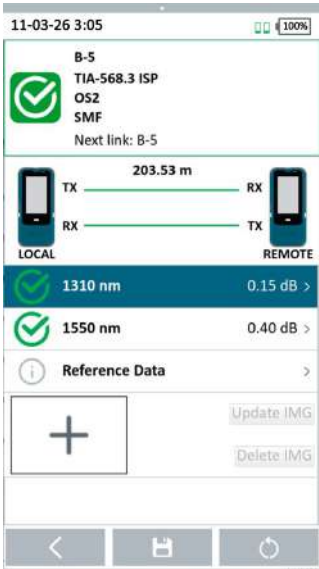


Test summary screen indicating the overall test result and individual parameters with the following symbols. More information can be viewed by selecting the parameter on the test result screen.

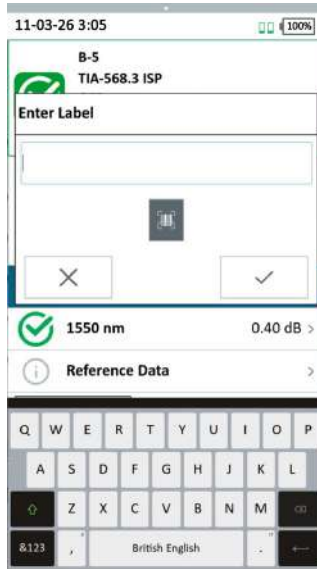
	"PASS" – Good test result in accordance to pre-defined settings.		"FAIL" – Unacceptable results with severe disturbance on one or more test parameters.
	Marginal "PASS" – "PASS" result with one or more test parameters that have margin in the range of uncertainty of the tester.		Marginal "FAIL" – "FAIL" result with one or more test parameters that have negative margin in the range of uncertainty of the tester.
	For Information Only - Parameter is tested but not required for the selected test limit or configuration.		

Managing Results

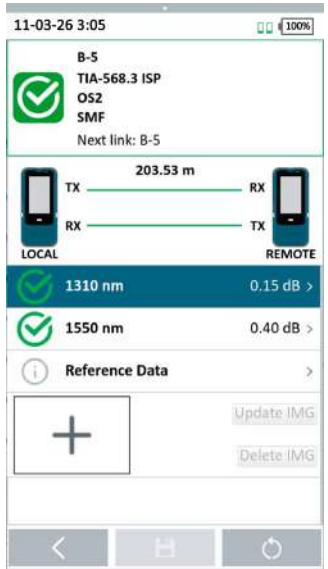
Test results can be manually saved by selecting **[Save]** after an Autotest or single application test in Tools is completed. When prompted, enter label name and tap the **[Save]** button to save.



Autotest result screen

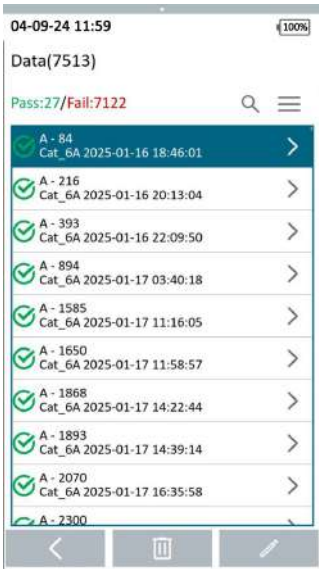


Enter label

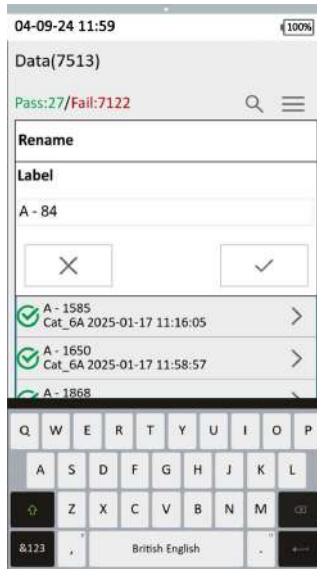


Result saved

Test results will be named in alpha-numeric sequence depending on the selected Label Source when Autotest is completed. PASS results will automatically be saved if the **Auto Save** option is enabled. FAILED results can only be saved manually.



Data



Rename



Trash

To view saved results, press the **[Home]** button and select **[Project, Site & Data] -> [Data]**

Saved results can be renamed or deleted from the **Data** screen.

To retrieve deleted results, press the **[Home]** button and select **[Tools] -> [Trash]** Files deleted from **[Trash]** will be permanently deleted and not recoverable.

To transfer results to the PC software, please refer to the User Manual for more information.