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FiBLU

FIBER CERTIFICATION TESTER

QUICK START GUIDE

Dual-ended certification · Main + Remote · For use with the UniBLU app

Before You Begin

This is a Quick Start Guide only. For full instructions refer to the **UniBLU User Guide**. This guide covers **dual-ended certification** using a Main and a Remote unit — the configuration used for most fiber certification work. Loopback, simplex and cloud-based testing are described in the User Guide.

What you need

FiBLU testers	Two units — one Main, one Remote. Dual-ended testing cannot be performed with a single handset.
Reference	Two 2 m fiber reference cords matching your fiber type (SM or MM).
Mobile device	A smartphone or tablet running the UniBLU app. One device per FiBLU unit.
Fiber cleaner	Clean every connector before every connection. Contamination is the most common cause of a failed test.

FiBLU standard kit contents

Tester	SM or MM FiBLU Tester
Reference	Two each SC-LC and LC-LC SM/MM Fiber Test Reference Cords
Accessories	2x USB-C charging cables, 2x SC/ST/FC interface adapters for Rx port, 1x duplex LC coupler
Cleaning & Storage	1x LC (1.25 mm) and 1x SC (2.5 mm) fiber cleaners, 2x hanging straps and Soft Carry Case

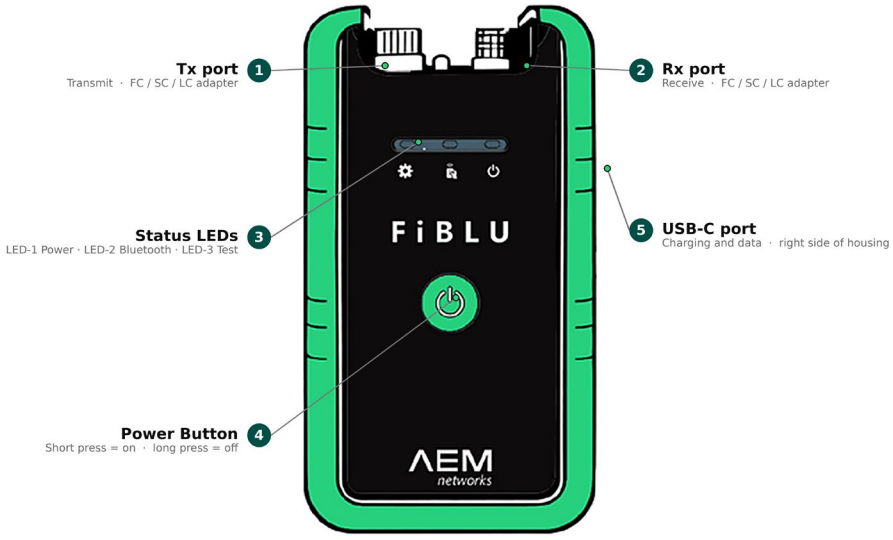
System requirements

Requirement	Specification
iOS	iOS 15.5 or later
Android	Android 11 or later
Connectivity	Bluetooth (WPAN 2.4 GHz, v4.2 or higher)
Internet	Required only for cloud sync and firmware updates. Testing works fully offline.

Dual-ended setup at a glance



Your FiBLU Tester



FiBLU handset — front view

Controls and indicators

Power Button	Short press to power on. Long press to power off.
LED-1 · Power	Green = on, not charging · Red = off, charging · Orange = on, charging
LED-2 ·	Blue blinking = advertising, not connected · Blue = connected · Green = battery check
LED-3 · Test	Orange blinking = laser/test active · Green = pass · Red = fail
Tx / Rx ports	Transmit and receive interfaces. Interchangeable FC, SC and LC adapters.
USB-C	Charging and data transfer. Battery: 30 h typical, 2 h charge time.

1 · Install the UniBLU app

Download on the App Store

GET IT ON Google Play

Scan the QR code for your platform, or search for **UniBLU** in the App Store or Google Play and install the app published by **AEM Networks**.

Launch UniBLU and grant all requested permissions (Bluetooth, and location if prompted).

2 · Power on and connect

1. Short press the **Power Button**. LED-1 turns green. Wait for **LED-2 to blink blue** — the unit is advertising over Bluetooth.
2. On the UniBLU Home screen, tap **Connect**.
3. UniBLU lists testers by serial number, for example **FiBluMM-10054**. Tap your unit.
4. Once connected, the Home screen shows device name and battery level. Repeat on the second phone for the Remote unit.

Note: If the tester does not appear, check LED-2 is blinking blue, keep the tester within 10 meters of the phone, and tap Rescan. FiBLU connects over Bluetooth only — Wi-Fi is not used.

Set Up and Reference

3 · Create a Project and Job

A **Project** is a customer or contract. A **Job** defines how the links in that project are tested. Both are required before testing — a project is not active until it contains at least one job.

1. Open the **Projects** list and tap **Add Project**. Enter a name. The app moves straight to Add Job.
2. Enter a job name, then set the job parameters below.

Job setting	Select
Job Type	SM Fiber Certification or MM Fiber Certification
Limit	The test limit standard, for example TIA-568.3-E MultiMode STD Grade
Configuration	Dual End Unidirection — the configuration used in this guide
Cable	Generic or manufacturer-specific, for example MultiMode OM4
Connector	Generic or manufacturer-specific, for example LC
Label Scheme	Simple sequential labelling, or upload a custom label list
Operator	Name of the person performing the tests
Test Option	How results are stored — Duplex Fiber in same Label ID, or Single Fiber

4 · Set the reference

A reference establishes the baseline optical power used to calculate insertion loss. **It must be set before any certification test**, and set again whenever reference cords are changed.

1. Connect a 2 m reference cord from the **Tx port on the Main unit** to the **Rx port on the Remote unit**.
2. Connect a second 2 m reference cord from the **Rx port on the Main unit** to the **Tx port on the Remote unit**.
3. In UniBLU, tap the **Test** tab.
4. Check the **Wiremap** matches the cords connected. If it does not, correct the connection before continuing.
5. Tap **Set Reference**. Select the **1 Jumper** method, then set Test Type to **Dual Ended**.
6. Tap **Set Reference**. The measured reference power and the date and time are displayed.

Reference	Range
Singlemode	−6 dBm to 0 dBm
Multimode	−24 dBm to −18 dBm

If measured reference power falls outside these ranges, clean every connector and check each is fully seated. AEM recommends the single-jumper method for best accuracy.

Test and Report

5 · Run the AutoTest

1. Connect the link under test between the Main and Remote units, through the reference cords.
2. Check the **Wiremap** on the Autotest screen confirms the physical connection.
3. Check the label shown, for example **A-001**. To change it, tap the label and choose from the list. You can also tap the camera icon to scan a printed cable label.
4. Tap **Autotest**. A dual-wavelength certification test completes in approximately **3 seconds** in dual-ended mode.

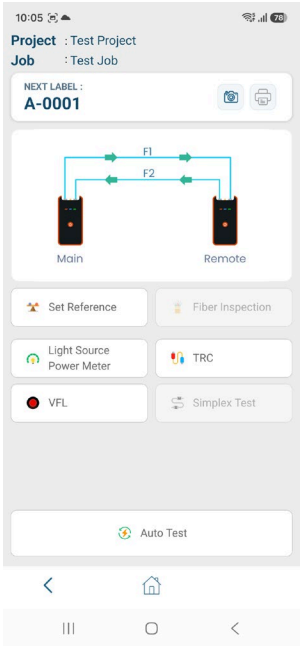
6 · Read the result

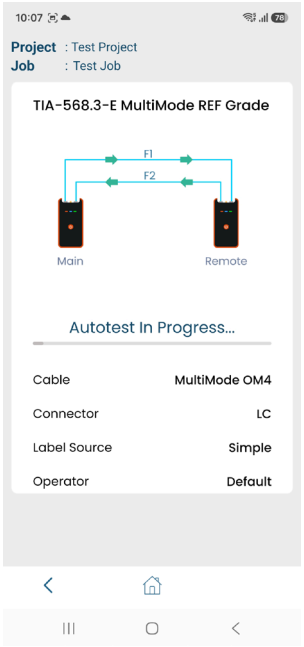
Tab	Shows
Summary	Overall PASS or FAIL, with margin values for each wavelength tested.
Loss	Measurement detail. Multimode opens at 850 nm; singlemode at 1310 nm. Select the second radio button for 1300 nm or 1550 nm.
Network	Applications the link can support, for example 10GBASE-SR or 40GBASE-SR4 — confirming the installation meets the requirements for the hardware to be deployed.

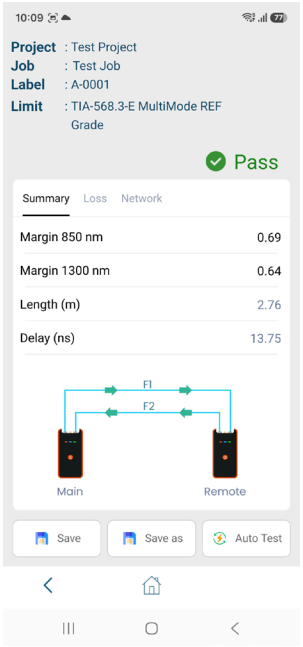
7 · Save and report

1. Tap **Save** on the result screen. The next label in your scheme is selected automatically.
2. To review results, tap **Test Data** on the Home screen. Tap any result for full detail.
3. To generate a report, tap the ⋮ menu, select **Report**, choose the results or **Select All**, then pick **PDF** or **CSV**.

Add your company logo under Settings › Test Configuration › Company Logo and it is placed in the header of every PDF certification report.







If Something Goes Wrong

Symptom	What to check
Tester not found in scan	Confirm LED-2 is blinking blue, keep the tester within 10 m of the phone, and tap
Reference power out of range	Clean every connector with the supplied cleaner and reseat each connection. Set the reference again.
Wiremap does not match	Recheck Tx and Rx at both ends. Main Tx goes to Remote Rx; Main Rx goes to Remote
Test fails repeatedly	Clean and reseat all connectors, set a new reference, and confirm the Job Limit matches the fiber installed.
Results not saving	Check Settings › Test Configuration › Auto Save. If set to Only Pass, failed tests are not stored automatically.
Deleted a result by mistake	Open Settings › Sync Preference › Recycle Bin to restore it.

Next steps

Topic	Where to find it
Loopback testing	Single-unit testing with a 5-second Autotest — UniBLU User Guide, Chapter 5.2 and 6.5.1.
Bi-directional	Measures the link in both directions — User Guide Chapter 6.5.3.
Simplex testing	Single-fiber testing using Light Source and Power Meter — User Guide Chapter 6.4.
Cloud testing	Sync projects and results through Google Drive or OneDrive, with Owner, Manager, Operator and Viewer roles — User Guide Chapter 8.
TestDataPro	Export projects as .ubu files and combine FiBLU results with TestPro or NSA copper results in a single report — User Guide Chapter 9.4.

Technical Support

Email — monitored 24 hours
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Live phone support
Monday–Friday, 8am–5pm (Arizona, USA)
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