AEM

FiBLU

The Future of Fiber Testing and Certification

- Open software platform that evolves with your network
- Fully standards compliant, dual wavelength bi-directional fiber certification testing
- Real-time operational efficiency & collaborations

The future of fiber testing

As networks become more software-defined and operations more distributed, testing tools must follow the same trajectory. App-driven platforms enable continuous improvement, remote collaboration and deeper integration with project and asset management systems.

FiBLU represents this shift—moving fiber certification away from static, hardware-bound testers toward a connected, upgradable and data-driven model. It aligns fiber testing with modern digital workflows, ensuring organizations can scale, adapt and optimize their networks without repeated reinvestment in test equipment.

Mobile app-enabled fiber network certification

FiBLU is a new generation app-based, fiber certification solution that shifts intelligence from fixed hardware to a smartphone app. FiBLU fundamentally changes how fiber testing is done—making it faster, more collaborative and dramatically more cost-effective over the life of the network.

The UNIBLU app, downloadable from Google Play Store and Apple's App Store, enhances productivity by allowing scanning of cable labels, with character recognition, GPS location tagging with test results, and many more features.

Why FiBLU?

App-first by design—a true industry shift

FiBLU is not a traditional tester with an app added on; it is app-native at its core. The smartphone becomes the interface, the computing engine and the collaboration platform—unlocking capabilities that screen-based testers cannot offer.

This approach delivers:

- A richer, more intuitive user experience
- Rapid feature evolution, without replacing hardware
- Lower power consumption and lighter field equipment
- Built-in connectivity for sharing, collaboration and analytics

Future-proof your investments

Because FiBLU's intelligence lives in software, the tester does not become obsolete as requirements evolve. New features, analytics and workflows are delivered through app updates rather than hardware replacement.

Result: longer usable life, lower total cost of ownership and protection against technology obsolescence.

Built for fiber networks

While platform-based testers are designed to support copper and fiber through interchangeable modules, FiBLU is a purpose-built fiber certification solution. For organizations deploying fiber-only networks, this eliminates unnecessary cost and complexity.

Operational efficiency and project control

FiBLU directly addresses one of the biggest challenges in fiber deployment: delayed reporting and fragmented project visibility. Test results are captured and uploaded instantly, giving supervisors and project managers real-time insight into progress and quality.

Problems are identified while technicians are still on site, reducing rework, accelerating acceptance and improving billing accuracy.

Optimized for enterprise networks

In enterprise environments, network reliability and documentation are critical. FiBLU enables IT teams and integrators to certify fiber links quickly and consistently during new installations, upgrades and expansions.

Instant access to test results improves coordination between field teams and central IT, while cloud-based records create a clean audit trail for compliance, handover and future upgrades. The result is faster rollouts, fewer disputes and networks that perform as designed from day one.

Engineered for data centre scale and precision

In data centres, where scale, precision and traceability are non-negotiable, FiBLU provides accurate dual-ended fiber certification with immediate result availability. High port density and tight commissioning schedules demand tools that minimise friction and error.

By delivering instant uploads, centralised records and remote collaboration, FiBLU reduces operational risk, supports smoother handovers and simplifies ongoing lifecycle management—whether for audits, expansions or fault isolation.

Features that drive efficiency

Certify right the first time
High-accuracy, standards-based testing ensures fiber links meet performance requirements before handover—reducing costly rework and post-deployment troubleshooting.

Instant reporting, zero backlog
Results are synchronized in real time, across all users' mobile apps, via the cloud, eliminating end-of-day data transfers and forgotten tests while giving managers immediate visibility into project status.

Built-in collaboration
Test data can be instantly shared or remotely reviewed through all users' mobile apps via the cloud, enabling experts to support field teams without being physically present.

Uninterrupted field testing
A compact, field-ready design; more than 18 hours of continuous operation or 5,000+ tests per charge, via USB-C ports, for uninterrupted on-site testing.

Secure, role-based cloud workflows
Fully cloud-based testing with role-based workflows, leveraging Google Drive and OneDrive to enable secure, user-controlled data management, within established security frameworks.

Variants

FiBLU is available as two variants:

FiBLU-SM
for single-mode fiber links, provides dual wavelength testing at 1310nm and 1550nm wavelengths using laser light source.

FiBLU-MM
for multi-mode fiber links, provides dual wavelength testing at 850nm and 1300nm wavelengths using encircled-flux compliant LED light source.

Each variant supports loopback or dual ended test modes using main and remote FiBLU devices.

Typical use cases

Fiber certification during installation
Ensures newly installed fiber links meet required loss budgets and performance standards before network commissioning.

Network capability testing before handover
Validates that the installed fiber infrastructure can support intended applications and bandwidth demands, reducing acceptance risk.

Performance verification and troubleshooting
Quickly identifies loss issues, degradation or installation faults, enabling faster resolution and reduced downtime.

Ongoing network performance analysis
Historical data provides insight into network health over time, supporting proactive maintenance and planning.

Industrial and mission-critical environments
Supports reliable high-speed connectivity in environments where uptime, accuracy and documentation are essential.

The future is already here, it's FiBLU.

FIBLU SPECIFICATIONS		
Loss/Length Specifications		
Variant/Parameter	**Multimode (FiBLU-MM)**	**Singlemode (FiBLU-SM)**
Source Type	LED (encircled flux compliant)	Laser
Wavelengths (nm)	850 ± 20 , 1300 ± 20	1310 ± 20, 1550 ± 20
RMS Spectral Width Range (nm)	35	5
Output Power	850nm : 10uW to 20uW 1300nm: 10uW to 20uW	1310nm: 1.5mW to 2mW 1550nm: 0.5mW to 2mW
Length Measurement Range	2 km	20 km
Transmit and Receive Interface Connectors	Interchangeable FC, SC, and LC Adapters	
Certification Test modes	Loopback or dual ended, single-direction or bi-direction, simplex or duplex	
Test standards	ISO/IEC, TIA, IEEE, application specific loss-budget	
AutoTest Speed	Loopback Mode : 5 seconds Dual Ended Mode: 6 seconds	
Insertion Loss Accuracy	≤0.2dB	
Measurement Repeatebility	≤0.05dB	
Length Measurement Accuracy	±(1m + 1 % of length)	
Power Measurement Range	850nm : 0 dBm to -30 dBm 1300nm: 0 dBm to -50 dBm	1310nm: 0 dBm to -50 dBm 1550nm: 0 dBm to -50 dBm
Dimension	177mm X 92mm X 42mm	
Weight	350 Grams	
Battery	Li-Ion, 3.7V / 2600 mAh	
Battery capacity	30 Hrs battery life typical	
Charging Time	2 Hours	
Power Adapter	5V/1A, USB-C type	
Android application	Android 11 or higher	
Ios Application	IOS 13 or higher	
Connectivity	WPAN 2.4Ghz v4.2 or higher	
Visual Fault Locator (VFL)		
VFL Light Source	650nm Laser	
Power Output	1mW	
Output Modes	1.5Hz Pulsed mode	
Connector Adapter	2.5 mm universal	
Laser Safety	Class II	
Environmental Specifications		
Operating Temperature	32° F to 113° F (0° C to 45° C)	
Storage Temperature	-22° F to +140° F (-30° C to +60° C)	
Operating relative humidity (% RH without condensation)	0% to 90%, 32° F to 95° F (0° C to 35° C)0% to 70%, 95° F to 113° F (35° C to 45 °C)	
Safety	IEC 61010-1 3rd Edition	
Operating altitude	13,123 ft (4,000 m)	
EMC	EN 61326-1	