FlowScout® QUAD OLTS Certification Test Set

Features

- Quad 850/1300/1310/1550 Tier I OLTS Certifier
- Single test set for duplex multimode and single-mode links
- Extremely fast and accurate pass/fail analysis
- Certification to industry standards and custom test limits
- Large color touchscreen with icon-driven user interface
- Single reporting platform - AFL's FlexReporter® Software Suite

Applications

- Tier I certification of enterprise LAN and data center fiber networks
- Hyperscale data centers
- Multi-tenant data centers

AFL's FlowScout Quad OLTS is ideal for fiber testing in enterprise LAN and data center environments. It is designed for fast, accurate Tier 1 optical loss certification of duplex fiber links and can test single-mode and multimode fiber.

In addition to providing Tier I certification capability, it can also be used as a standalone power meter or light source. Additionally, the FlowScout Quad OLTS utilizes AFL's Wave ID format, allowing it to automatically identify incoming wavelength(s) of signals sent from other AFL products using Wave ID.

Extremely fast testing: The FlowScout Quad OLTS test set provides rapid testing on duplex fiber links.

Highly accurate results and simple operation: The test set design is based on a precise, highly accurate testing technology to ensure accurate verification and validation of links. A simple icon-based user interface allows technicians to quickly set up, test, validate, and document fiber networks. The FlowScout Quad OLTS measures and automatically evaluates pass/fail loss against industry or user-set limits. The large color touchscreen displays detected power levels with color-coded pass/fail indications.

All-in-One solution: The FlowScout® Quad OLTS is a pair of hand-held testers designed to support native duplex multimode and single-mode testing with integrated VFL.

One Reporting Platform for Documentation: Measured pass/fail limits and device information may be transferred from internal memory for download via Bluetooth or USB. Using AFL's free FlexApp on iOS or Android mobile device, test results may be wirelessly transferred to AFL's FlexReporter cloud for subsequent analysis, editing, and report generation with FlexReports PC software.

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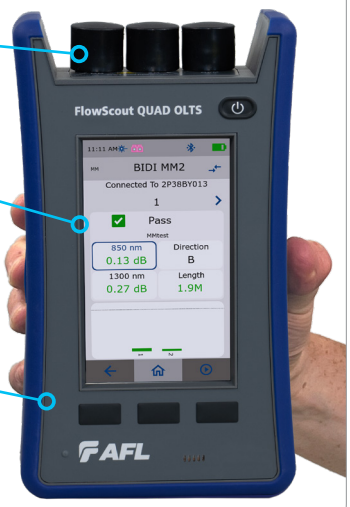
Product Highlights

- **Effortless Operation**
- **Hand-held Tester**
- **Comprehensive Reporting**
- **USB Power Port / Software Upgrades**

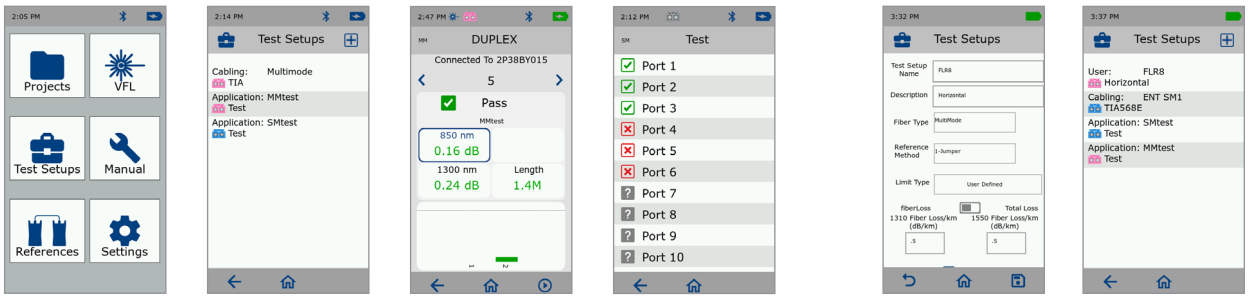
Duplex Tier I OLTS tester
Easy certification of single-mode and multimode duplex links

Fast and accurate pass/fail analysis
Designed on a precise and extremely accurate testing technology to ensure highly accurate verification and validation of fiber links

Automated workflow
With the FlexReporter® suite, work assignments and reporting can be centrally managed and automated

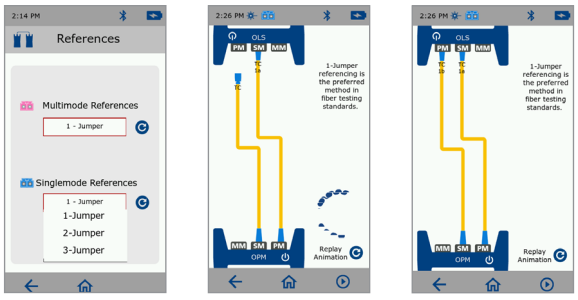


User Interface Highlights



Simplified workflow with fewer steps

Custom Test Setups



Duplex Multimode and Single-mode Jumpers Referencing

Test Results Transfer to FlexReports PC Software

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Specifications[a], [b], [c]

Optical		
Power Meter	**Power Meter**	
Optical Interface	Interchangeable connector adapter (LC standard)	
Detector Type	InGaAs	
Calibrated Wavelengths	850 nm, 1300 nm, 1310 nm, 1550 nm	
Power Measurement Range	-60 to +3 dBm	
Accuracy	± 5% @ -10 dBm	
Linearity	± 0.15 dB	
Measurement Units	dB, dBm	
Display Resolution	0.01 dB	
Storage Capacity	10,000 results	
Length Measurement Range	SM: Up to 200 km, MM: up to 5 km	
Warm Up Time	0 minutes	
Length Measurement Accuracy	±1 m ±1% of length	
Calibration Period	3 years	
Light Source	**Multimode Light Source**	**Single-mode Light Source**
Optical Interface	Interchangeable connector adapter (SC standard)	Interchangeable connector adapter (SC standard)
Source Type	LED	Laser
Safety Class	Class I	Class I
Wavelengths	850 ±30 nm, 1300 -40 nm to + 50 nm	1310 ±20 nm, 1550 ± 20 nm
Spectral Width	850 nm: 50 nm (typ); 1300 nm: 140 nm (typ)	<5 nm
Launch Condition	Encircled Flux Compliant[c]	N/A
Output Power	-23 dBm	-1 dBm
Stability	±0.1 dB over 1 hour (after 15 minutes warm-up) ±0.15 dB over 8 hours (after 15 minutes warm-up)	±0.1 dB over 1 hour (after 15 minutes warm-up) ±0.15 dB over 8 hours (after 15 minutes warm-up)
Wave ID	Yes	Yes
Tone Generation	270 Hz, 330 Hz, 1 kHz, 2 kHz	270 Hz, 330 Hz, 1 kHz, 2 kHz
Warm-up time	15 minutes	15 minutes
Visual Fault Locator (VFL)		
Emitter Type	Visible red laser 650 nm ± 20 nm	
Safety Class	Class 3R FDA 21 CFR 1040.10 and 1040.11 IEC EN60825-1: 2014	
Output Power (nominal)	4 mW into single-mode fiber	
Modes	CW and 2 Hz flashing	
General		
Size	22 x 11 x 5.5 cm (8.5 x 4.5 x 2.2 in)	
Weight	0.9 kg (2.0 lb)	
Screen	5" capacitive color touchscreen	
Interface	Bluetooth 5.1 BLE	
Power and Data Transfer	USB-C	
Operating Temperature	-10 °C to +50 °C, 0 to 90 % RH (non-condensing)	
Storage Temperature	-20 °C to +60 °C, 0 to 90 % RH (non-condensing)	
Power	Rechargeable Li-Ion or AC power adapter	
Battery Life	>8 hours continuous testing	

Notes:
a. All specifications valid at 23°C ±2°C unless otherwise specified.
b. Accuracy measured at 25 °C and -10 dBm per N.I.S.T. standards.
c. EF Compliance to IEC 61280-4-1 and TIA 526-14-C at 850 nm.

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Ordering Information

FlowScout QUAD OLTS Kits

AFL NO.	Description
DFLT-KIT-0001MR	FlowScout Quad OLTS Kit

Test Cords

AFL NO.	Description
8700-00-0275MR	Test cord, USC-ULC,G657.A1, 2 m, 3 mm jacket, yellow
8700-00-0221MR	Test cord,ULC-ULC, G657.A1, 2 m, 3 mm jacket, yellow
8700-00-0266MR	Test cord, USC-ULC, OM4, 2 m, 3 mm OFNR jacket, violet
8700-00-0267MR	Test cord, ULC-ULC, OM4, 2 m, 3 mm OFNR jacket, violet

Recommended Products

FOCIS Lightning2 (Multi-Fiber Connector Inspection

- Self-contained, tether-free, hand-held inspection solution
- Auto-focus and auto-centering for fast, easy inspection
- IEC, IPC and user-defined pass/fail analysis
- FOCIS Lightning2: extremely fast multi-fiber auto-analysis for datacom and telecom inspection applications

One-Click® Cleaner SC/ST/FC, MU/LC

- Patented single-action cleaning in a small ergonomic design
- Variety of sizes and types for different connector styles
- Cleans connectors in both jumpers and bulkhead adapters
- Low cost per clean

Qualifications

Category	Regulation/ Standard	Qualification
CE Marking	EU	Compliant to relevant EU Directives on health, safety, and environmental protection, and certified with CE marking
UKCA Marking	UK	Compliant to relevant UK Directives on health, safety, and environmental protection, and certified with the UKCA marking
Safety/EMC/EMI	IEC	Compliant to IEC 61010-1 for safety requirements for electrical equipment
	EN	Compliant to EN 61010-1 for safety requirements for electrical equipment
	IEC	Compliant to IEC 61326-1 for EMC requirements for electrical equipment
	EN	Compliant to EN 61326-1 for EMC requirements for electrical equipment
	EN	Compliant to EN 55011 for EMC requirements for industrial, scientific and medical equipment
	FCC	Compliant to code of federal regulations FCC 47 CFR 15 on unlicensed transmissions
RoHS	EU	Compliant to EU regulations Directive 2011/65/EU (RoHS 2) and Directive 2015/863 (RoHS 3)
Test Method	TIA	Compliant to TIA-568.3-E for test and measurement requirements for optical fiber cabling and components
	IEC	Compliant to IEC 11801 for test and measurement requirements for optical fiber cabling for use within premises
	EN	Compliant to EN 50173 for test and measurement requirements for optical fiber cabling for use within premises
	AS/NZS	Compliant to AS/NZS 3080 for test and measurement requirements for optical fiber cabling for use within premises
	TIA	Compliant to TIA-526-7 for test procedures for installed optical fiber cable plant
	TIA	Compliant to TIA-526-14 for test procedures for installed optical fiber cable plant
	IEC	Compliant to IEC 14763-3 for systems and methods for the inspection and testing of installed optical fiber cabling
	AS/NZS	Compliant to AS/NZS 14763.3 for systems and methods for the inspection and testing of installed optical fiber cabling
	IEC	Compliant to IEC 61280-4-1 for test procedures for installed optical fiber cable plant
	IEC	Compliant to IEC 61280-4-2 for test procedures for installed optical fiber cable plant
Generic Requirement	IEC	Compliant to IEC 61315 for requirements on calibration of fiber optic power meters

Contact Sales@AFLglobal.com to schedule a demonstration or learn how to buy.

Visit www.AFLglobal.com/Test to learn more about OPM8 optical power meters.

International Sales and Service Contact Information available at www.AFLglobal.com/Test/Contacts.