Selection of Dedicated Fiber Optic Handheld Light Sources for Field Operations



Overview

Fiber Optic Light Sources VIAVI light sources offer versatility in measuring fiber optic light continuity, loss and quality in field, lab, and manufacturin.

Key Takeaways

Handheld fiber optic light sources are essential for field testing, offering portability, multi-wavelength support, and high stability for accurate fiber continuity and loss measurements.

Key Considerations for Field Selection

Portability and Ruggedness: Field operations require compact, lightweight, and durable devices. Models like the SmartPocket OLS-3xV2 and AFL FlowScout OLS8 are designed for easy transport and robust use in outdoor or industrial environments, with long battery life to support extended testing sessions. Wavelength Options: Multi-wavelength capability is critical for testing both single-mode (SM) and multimode (MM) fibers.

Common field wavelengths include 650 nm, 850 nm, 1300 nm, 1310 nm, and 1550 nm. Devices such as the GAO Tek Multi-Wavelength Optical Light Source and VIAVI OLS-85 provide selectable wavelengths for insertion loss and continuity testing. Output Stability and Accuracy: Stable optical output ensures reliable measurements.

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High-stability laser sources, like those in GAO Tek and AFL FlowScout OLS8, minimize fluctuations, improving the accuracy of link loss and continuity tests. Compatibility with Power Meters: Handheld light sources are often paired with optical power meters for comprehensive testing. For example, VIAVI OLS-85 works seamlessly with OLP-85/OLP-85P meters, while SmartPocket OLS complements OLP-3xV2 meters for field insertion loss measurements.

Ease of Use and Features: Field devices should offer intuitive interfaces, single-button operation, and quick wavelength switching. Advanced models like AFL FlowScout OLS8 include color touchscreens, Wave ID technology for automatic wavelength encoding, and real-time reporting capabilities, streamlining field testing and documentation. Application Suitability: Choose devices based on network type and testing requirements: FTTH, PON, and LAN networks: Compact multi-wavelength sources with modulated output for insertion loss and continuity checks.

Metro and long-haul networks: High-stability sources with precise wavelength control for accurate link characterization. Data centers: Portable, inspection-ready sources for rapid testing and certification. Recommended Field Handheld Light SourcesVIAVI SmartClass Fiber OLS-85: Versatile, compact, inspection-ready, ideal for SM/MM fiber testing and network certification.

EXF

O FLS-600 Series: Offers laser and LED models with controlled launch conditions for accurate multimode fiber testing.

GAO Tek Multi-

Wavelength Optical Light Source: Portable, high-stability, supports 1–4 wavelengths for SM/MM fibers.

AFL Flow

Scout OLS8: Robust, long battery life, Wave ID technology, touchscreen interface, suitable for enterprise LAN, FTTH, and DWDM networks.

Conclusion

Selecting a dedicated handheld fiber optic light source for field operations requires balancing portability, wavelength versatility, output stability, and compatibility with power meters. Devices like VIAVI OLS-85, GAO Tek multi-wavelength sources, and AFL FlowScout OLS8 provide reliable, field-ready solutions for a wide range of fiber optic testing applications, ensuring accurate and efficient network maintenance and troubleshooting.

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Article Content

Fiber Optic Light Sources

VIAVI light sources offer versatility in measuring fiber optic light continuity, loss and quality in field, lab, and manufacturing environments. Versatile and compact handheld solutions are offered for field use

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SmartPocket OLS-3xV2 are a range of small and rugged optical light sources (OLS) for quick, easy, and convenient field insertion loss measurement and continuity checks.

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Fiber Optic Handheld light source for Multimode fiber

The L-com FOTM-OLS-MM Fiber Optic Handheld Light Source is designed for multimode fiber testing, troubleshooting, and installation applications. The L-com

Fiber Optic Light Source, Optical Fiber Light Source

FS offers a range of fiber optic light sources, choose from a variety of cost-effective light sources. Money Back Guarantee.

Fiber Optic Illuminators

Fiber Optic Illuminators are light sources that are designed to interface with fiber optic light guides to provide a continual light supply that can be manipulated or

Fibershot Handheld Optical Light Source

Fibershot Handheld Adjustable Light Source is Fibershot''s newly designed fiber optic tester, it aims at fiber network installation, fiber network engineering acceptance, and fiber network maintenance.

Fiber Optic Handheld light source for single mode fiber applications at ...

Description The L-com FOTM-OLS-SM Fiber Optic Handheld Light Source is designed for single mode fiber testing, troubleshooting, and installa-tion applications. The L-com FOTM-OLS-SM features both

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