



## OLS1-Dual LED Light Source

The OLS1-Dual is a hand-held, rugged LED light source designed for performing insertion loss measurements on multimode fiber optic links when used with an optical power meter. The LED output is stabilized to ensure accurate test results per current TIA/EIA requirements.

The OLS1-Dual features 850 nm and 1300 nm LED output from a single output port and is easy to operate with only a power button and a wavelength select button. Each wavelength may be transmitted individually at CW or with Wave ID. When transmitting with Wave ID, the OLS1-Dual supports transmitting pairs of wavelengths in an alternating pattern. Associated with each operating condition, the designated LED indicator will illuminate to identify the currently enabled operating mode and emitted wavelength(s) along with battery charge status and external power presence.

The output port is equipped with UCI based removable adapters to allow the output connectors to be inspected and cleaned. The OLS1-Dual offers long battery life from common AA alkaline batteries with external AC adapter available as an option.

The OLS1-Dual is fully N.I.S.T. traceable.

### Features

- Dual wavelengths from a single port
- Dual or single Wave ID, CW
- Low battery LED indicator
- Long battery life with 2 x AA alkaline, optional AC adapter
- Free 50µm and 62.5µm mandrels
- Cost-effective, easy-to-use
- Hand-held, rugged, lightweight

### Applications

- Certify 50 or 62.5µm multimode fiber links for any 850 or 1300 nm application, including Gigabit Ethernet (GBE) per TIA/EIA standards
- The 1300 nm output can also be used to test short distance (up to 10 km) single-mode fiber links

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Specifications and descriptions are subject to change without prior notice.

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### Specifications

OPTICAL	OLS1-DUAL (SINGLE PORT)	
Wavelength	850 ±30 nm	1300 +50/-10 nm
Emitter Type	LED, Class I FDA 21 CFR 1040.10 and 1040.11, IEC 60825-1: 2007-03	
Spectral Width	40 nm (typ)	120 nm (typ)
Output Power	>-20 dBm*	
Output Stability	± 0.1 dB over 8 hours (after 5 min. warm-up)	
Fiber Size	62.5µm**	
GENERAL		
Power	2 x AA batteries, optional AC adapter	
Battery Life	Typical 30 hours, minimum 20 hours	
Available Adapters	SC, FC, ST	
Operating Temperature	-10 to 50°C, 90% RH (non-condensing)	
Storage Temperature	-30 to 60°C, 90% RH (non-condensing)	
Size (H x W x D)	14.0 x 8.1 x 3.8 cm (5.5 x 3.2 x 1.5 in)	
Weight	0.29 kg (0.65 lb)	

\* Output power will be approximately 3 dB less if a 50µm mandrel-wrapped jumper is used instead of a 62.5µm mandrel-wrapped jumper.

\*\* May be used to test 50 or 62.5µm fiber with supplied mandrels.  
All specifications at 25°C.

### Ordering Information

MODEL	INCLUDES
OLS1-Dual	OLS1-Dual optical light source, protective rubber boot, 2 x AA batteries, mandrels, and carry case.

Note: Test jumpers and connector adapters are required for operation (purchased separately).  
Test jumpers with a variety of connector styles and fiber types and adapter caps for most common connectors may be purchased from AFL.



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