



## OLS 2 Laser Light Source

The OLS 2 laser source is a cost-effective, rugged, handheld instrument designed for performing insertion loss measurements on single-mode fiber optic links when used with an optical power meter. When paired with an optical fiber identifier, the OLS 2 may be used for fiber identification. The LASER output is stabilized to ensure accurate test results per current TIA/EIA requirements.

Three versions of the OLS 2 are available for measurements at 1310 nm, 1550 nm, 1625 nm. This light source offers 2 modes of operation: continuous wave (CW) and 2 kHz modulated Tone. [Laser Active], [Battery], and [External Power] indicators identify the enabled laser, battery charge status, and external power presence. The output port is equipped with FC, SC, or ST style connector. The OLS 2 laser sources operate on disposable batteries or AC adapter.

The OLS 2 is fully N.I.S.T. traceable.

### features

- Rugged, handheld, lightweight
- Certify single-mode links per TIA/EIA standards
- CW or 2 kHz modulated Tone
- Long battery life
- Low battery indicator
- Adjustable output
- Cost-effective, easy to use
- N.I.S.T. Traceable

### ordering information

The OLS 2 package includes:  
OLS 2 laser source, protective rubber boot, 9V battery, manual, and carry case.

### applications

- The OLS 2 may be substituted for terminal equipment in the central office or head-end to provide a stable output for loss measurements.
- For single-mode applications, such as Telecom or CATV, the OLS 2 may be coupled with an optical power meter as a test kit to perform optical loss tests at 1310, 1550, or 1625 nm.
- In the modulation mode, the OLS 2 applies a 2 kHz tone into the fiber. This signal is detected by the OFI-200, optical fiber identifier, to isolate specific fibers in a bundle prior to splicing or rerouting

### specifications

Optical Specifications	OLS 2-1300	OLS 2-1550	OLS 2-1625
Output wavelength (nm)	1310 ±20	1550 ±20	1625 ±25
Output power <sup>1</sup>	-5 dBm	-5 dBm	-3 dBm
Laser classification	Class 1 (FDA 21 CFR 1040.10 and 1040.11, and IEC 60825-1)		
Output connector <sup>2</sup>	FC, SC, or ST		
Modes of operation <sup>3</sup>	CW and 2 kHz		
Spectral width (FWHM)	5 nm (max), 1625 nm: 5 nm (typ)		
Stability	± 0.1 dB over 1 hour (after 20 min. warm-up) ± 0.15 dB over 8 hours (after 20 min. warm-up)		

### General Specifications

Power	Typical 40 hours with 9V battery, optional AC adapter
Operating temperature	-10 to 50°C
Storage temperature	-30 to 60°C
Size (H x W x D)	5.5 x 3.2 x 1.5 in (14.0 x 8.1 x 3.8 cm)
Weight	0.65 lb (.29 kg)

<sup>1</sup> Adjustable ±1 dB.

<sup>2</sup> Other connectors available upon request.

<sup>3</sup> Other modulation frequencies available.

**Note:** All specifications at 25°C. Specifications are subject to change. Single wavelength models are available with higher output power and other wavelengths.

