



OLS1-Dual LED Light Source

The OLS1-Dual LED light source is a cost-effective, rugged, handheld instrument designed for performing insertion loss measurements on 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. This light source offers 3 modes of operation: Dual wavelengths sending ID, single wavelength sending ID, and CW. [Active Output], [Battery], and [External Power] indicators identify the currently enabled operating mode, battery charge status, and external power presence.

The output port is equipped with a removable SC (FC & ST available) adapter to allow the output connector to be inspected and cleaned.

In addition to being powered by two AA alkaline batteries, the OLS1-Dual can be powered by optional AC adapter and/or rechargeable NiMH battery pack. The OLS1-Dual is fully N.I.S.T. traceable.

Features

- Rugged, handheld, lightweight
- Dual wavelengths from a single port
- Certify 50 or 62.5 μm multimode fiber links for any 850 or 1300 nm application, including Gigabit Ethernet (GBE) per TIA/EIA standards
- Dual Wave ID, single Wave ID, and CW
- Free 50 μm and 62.5 μm mandrels
- AA alkaline, optional rechargeable NiMH battery pack or AC adapter
- Long battery life
- Low battery indicator
- Cost-effective, easy to use
- N.I.S.T. Traceable

Ordering Information

| Model | Includes |
|-----------|---|
| OLS1-Dual | Protective rubber boot, AA batteries, mandrels, manual, and carry case. |

Optical light sources and optical power meters can be packaged together as a kit.



Applications

- The 850 and 1300 nm output can be used for testing Gigabit Ethernet, Token Ring, FDDI, and other multimode LAN systems.
- The 1300 nm output can also be used to test short distance (up to 10 km) single-mode fiber links.

Specifications:

| Optical | OLS1-Dual (single port) | |
|----------------------------------|--|--------------|
| Output wavelength (nm) | 850 \pm 30 | 1300 +50/-10 |
| Spectral width (nm) (typ) (FWHM) | 40 | 120 |
| Output power (dBm) | >-20* | |
| Fiber size (μm) | 62.5** | |
| Output connector | SC (FC & ST available) | |
| Emitter classification | Class 1 (IEC 60825 - 1) | |
| Stability | \pm 0.1 dB over 8 hours (after 5 min. warm-up) | |
| General | | |
| Power | 2 x AA batteries, optional NiMH or AC adapter | |
| Battery life (2 x AA) | Typical 30 hours Minimum 20 hours | |
| 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) | 5.5 x 3.2 x 1.5 in (14.0 x 8.1 x 3.8 cm) | |
| Weight | 0.65 lb (.29 kg) | |

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

** May be used to test 50 or 62.5 μm fiber with supplied mandrels.

All specifications at 25°C