



OLS7-FTTH & OLS7-3 Triple Wavelength Laser Sources

The OLS7-FTTH and OLS7-3 laser sources are cost-effective, rugged, handheld instruments 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, both models may be used for fiber identification. The LASER output is stabilized to ensure accurate test results per current TIA/EIA requirements.

The OLS7-FTTH and OLS7-3 laser sources feature a triple wavelength LASER output from a single port and are easy to operate. Each wavelength may be transmitted individually at CW or with tone modulation at frequencies of 270Hz, 330Hz, 1kHz and 2kHz. Also, each wavelength may be transmitted with Wave ID. When transmitting with Wave ID, the OLS7 will also support transmitting pairs of wavelengths in an alternating pattern and triple wavelengths in a sequential pattern.

The OLS7-FTTH is designed specifically for today's FTTH network architectures. This laser source features a triple wavelength LASER output from a single port: 1310nm output for testing in the upstream direction and 1490 or 1550nm, for testing in the downstream direction.

The OLS7-3 model features 1310/1550/1625 nm triple wavelength LASER output that may be used for single-mode applications, such as Telecom or CATV.

The OLS7-FTTH and OLS7-3 output ports are equipped with UCI based removable adapters to allow the output connectors to be inspected and cleaned. Both models offer long battery life from common AA alkaline batteries with rechargeable NiMH batteries or external AC adapter available as an option.

The OLS7 is fully N.I.S.T. traceable.

Features

- Rugged, handheld, lightweight
- Triple wavelengths from a single port
- Triple Wave ID, dual Wave ID, single Wave ID, CW, and modulated Tone
- 270Hz, 330Hz, 1kHz, and 2kHz Tone
- AA alkaline, optional rechargeable NiMH battery pack or AC adapter
- Low battery indicator
- Long battery life
- Cost-effective, easy to use
- N.I.S.T. Traceable

Applications

- Passive Optical Networks (PON) testing
- Certify single-mode links per TIA/EIA standards
- Modulation Tone mode for fiber identification to isolate specific fibers in a bundle prior to splicing or rerouting

Ordering Information

Model	Includes
OLS7-3 and OLS7-FTTH	Protective rubber boot, AA batteries, user guide, and carry case.

Specifications

Optical	Model OLS7-FTTH			Model OLS7-3		
Wavelength (±20 nm)	1310 nm	1490 nm	1550 nm	1310 nm	1550 nm	1625 nm
Spectral width	5 nm	3 nm	5 nm	5 nm	5 nm	2 nm
Output power	-5 dBm (typical) into 9/125 fiber					
Emitter type	Laser, Class I (FDA 21 CFR 1040.10 and 1040.11)					
Output stability	± 0.05 dB over 1 hr. (after 15 min warm-up, after 30 sec typical) ± 0.1 dB over 8 hrs (after 15 min warm-up, after 30 sec typical)					
Connectors	SC (FC, ST, or LC available)					
Tone output	270 Hz, 330 Hz, 1 kHz, 2 kHz					
General	Models OLS7-FTTH & OLS7-3					
Power	2 AA alkalines. Optional: NiMH rechargeables or external AC adapter					
Battery life	Minimum 85 hours (with one laser active)					
Operating temp.	-10° to 50°C, 90% RH (non-condensing)					
Storage temp.	-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	0.66 lb (0.3 kg)					

All specifications at 25°C

