

OS-400 Series Optical Light Source

A LANscape® Solutions Product

[Corning OS-4MDSD Specs](#)

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Corning
Cable Systems

Applications

- Installation, testing and troubleshooting of LAN, telco, CATV and FTTx networks

Description

The Corning Cable Systems OS-400 Series Optical Light Source provides accurate, user-friendly, and economical fiber testing capabilities for incoming inspections, maintenance, troubleshooting, and system verification. The OS-400 features an ergonomic design that is rugged enough to withstand the harshest testing environments. This source can be coupled with a Corning Cable Systems power meter to create an attenuation test set.

The OS-400 Series Optical Light Source is a multifunctional optical light source with up to three single-mode wavelengths on one port or four wavelengths (two single-mode and two multi-mode) on two ports. A variety of wavelength configurations is available including 850 nm, 1300 nm, 1310 nm, 1490 nm and 1550 nm. The OS-400 sources have the highest output power in the industry.

The OS-400 offers source signal modulation frequencies of 270 Hz, 1 kHz, 2 kHz, CW (unmodulated) and Auto. A source modulation setting of Auto allows compatible Corning Cable Systems power meters to automatically detect the wavelength being transmitted by the source. Additionally, the OS-400 can be used to transmit a reference power level to a compatible power meter over a long distance, allowing a remote reference to be set without the source and meter being at the same location.

The OS-400 Series Light Source includes the unique Universal Interface which allows the user to change the source connector adapters in the field with no tools. A wide variety of industry-standard adapters is available.



OS-400 Series Optical Light Source | LAN630

Features / Benefits

- Rugged and compact handheld source
- Wide variety of source wavelength configurations
- FTTx ready 1310 nm/1490 nm/1550 nm tri-wavelength model available
- Universal interface with field-interchangeable connector adapters
- Remote power level referencing with compatible power meters
- Source frequency modulation and automatic wavelength detection modes
- AC and battery operation with battery life up to 120 hours

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Specifications¹

| | OS-404XD/OS-405T/OS-4MDS | OS-407T | OS-403D/OS-405T/OS-4MDS |
|---|---|------------------------|---------------------------|
| Central Wavelength (nm) | 1310 ± 20 1550 ± 20 1550 ± 20 | 1310 ± 20 1490 ± 20 | 850 ± 25 1300 + 50/-10 |
| Spectral Width² (nm) | ≤ 5 | ≤ 5 | 50/135 |
| Output Power (dBm) | ≥ 1 / ≥ 1 | ≥ 1 / ≥ -4.5 / ≥ -3 | ≥ -18 / ≥ -18 (62.5µm) |
| Power Stability³ (dB) 8 hours | ±0.10 | ±0.10 | ±0.10 |
| Battery Life⁴ (hours) | 120 | 120 | 120 |
| Enables Automatic Wavelength Recognition | Yes | Yes | Yes |
| Tone Generation (Hz) | 270, 1 k, 2 k | 270, 1 k, 2 k | 270, 1 k, 2 k |
| Warranty (years) | 1 | 1 | 1 |
| Recommended Calibration Interval (years) | 3 | 3 | 3 |
| Size | 18.5 x 10.0 x 5.5 cm (7.25 x 4 x 2.125 in) | | |
| Weight | 0.4 kg (0.9 lb) | | |
| Operating Temperature | -10° to 50° C (14° to 122° F) | | |
| Storage Temperature | -40° to 70° C (-40° to 158° F) | | |
| Relative Humidity | 0% to 95% non-condensing | | |
| Safety | 21 CFR 1040.10 and IEC 60825-1:1993+A1:1997+A2:2001 Class 1M Laser Product | | |

Notes:

¹ Guaranteed unless otherwise specified. All specifications valid at 23° ± 1°C, with an FC connector.

² rms for lasers and -3 dB width for LEDs; typical values for LEDs.

³ After 15 minutes warmup; expressed as ± half the difference between the maximum and minimum values during the period, with an APC connector on the power meter.

⁴ Typical autonomy in auto mode.

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Ordering Information

| Part Number | Description |
|---------------------|---|
| OS-403D-XX | Optical Source with 850 nm/1300 nm LED; one connector adapter of choice, AC adapter, wrist strap and alkaline batteries included |
| OS-404XD-YY | Optical Source with 1310 nm/1550 nm laser; one connector adapter of choice, AC adapter, wrist strap and alkaline batteries included |
| OS-405T-XX-YY | Optical Source with 850 nm/1300 nm LED and 1550 nm laser; two connector adapters of choice, AC adapter, wrist strap, and alkaline batteries included |
| OS-407T-YY | Optical Source with 1310 nm/1490 nm/1550 nm laser; one connector adapter of choice, AC adapter, wrist strap and alkaline batteries included |
| OS-4MDS-XX-YY | Optical Source with 850 nm/1300 nm LED and 1310 nm/1550 nm laser; two connector adapters of choice, AC adapter, wrist strap and alkaline batteries included |
| Connector Code (XX) | SC = SC, ST = ST® compatible, FC = FC |
| Connector Code (YY) | SC = SC, ST = ST compatible, FC = FC |

Accessories

| Part Number | Description |
|-----------------|--|
| UI-SC | Universal Interface Source Connector Adapter, SC |
| UI-ST | Universal Interface Source Connector Adapter, ST compatible |
| UI-FC | Universal Interface Source Connector Adapter, FC |
| OM-410-XX | Optical Power Meter with 10 to -60 dBm range |
| OM-420-XX | Optical Power Meter with 26 to -50 dBm range |
| OS-850V-52 | 850 nm VCSEL Source with fixed SC connector port |
| CASE-HH-400 | Hard-Shell Transit Case for two 400 series instruments |
| PS-9-1 | AC Power Adapter for 120 VAC |
| TJK-XXXX-XX-STD | Test Jumper Kits available in a variety of configurations – Contact Customer Service for available options |

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