OS-400 Series Optical Light Source
A LANscape® Solutions Product

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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Product Specifications

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Specifications[1]

	OS-404XD/OS-405T/OS-4MDSD	OS-407T	OS-403D/OS-405T/OS-4MDSD
Central Wavelength (nm)	1310 ± 20 1550 ± 20 1550 ± 20	1310 ± 20 1490 ± 20	850 ± 25 1300 + 50/-10
Spectral Width[2] (nm)	≤ 5	≤ 5	50/135
Output Power (dBm)	≥ 1 / ≥1	≥ 1 / ≥ -4.5 / ≥ -3	≥ -18 / ≥ -18 (62.5μm)
Power Stability[3] (dB) 8 hours	±0.10	±0.10	±0.10
Battery Life[4] (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	-10º to 50º C (14º to 122º F)		
Storage Temperature	-40º to 70º C (-40º to 158º 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 23º ±1ºC, 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.*

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-4MDSD-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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