

## OEWS-200 High Power White Light Source

### Description

The new OEWS-200 High Power White Light Source from O/E Land Inc. is a solid-state fiber optic light source with a spectrum range 350nm – 2.4um (Mid infrared) and has the highest output optical power available in the industry.

Output of light is focused at the end of SMA connector and a fiber patchcord with different fiber core size varies from 50um – 2mm can be used to lead the light to where is needed. Since it is a solid state light source, the results are a life span five times longer than a conventional arc lamp, and a complete color spectrum covering from UV to Mid infrared, making this source ideal for applications such as endoscopy, microscopy, and other medical lighting and inspection applications. This unit also offers as optional feature a RS232 connection and control user interface with intensity dimming.



OEWS-200 Front panel

Standard features include Power ON/OFF switch with LED indicator, as well as Laser ON switch, which turn the lamp at 100% power level. Optional is a RS232 connection to PC, and control software for regulating the output power in the range 20-100%. The optical output is receptacle for SMA, or MM fiber pigtail, terminated with connector (optional).

### Features

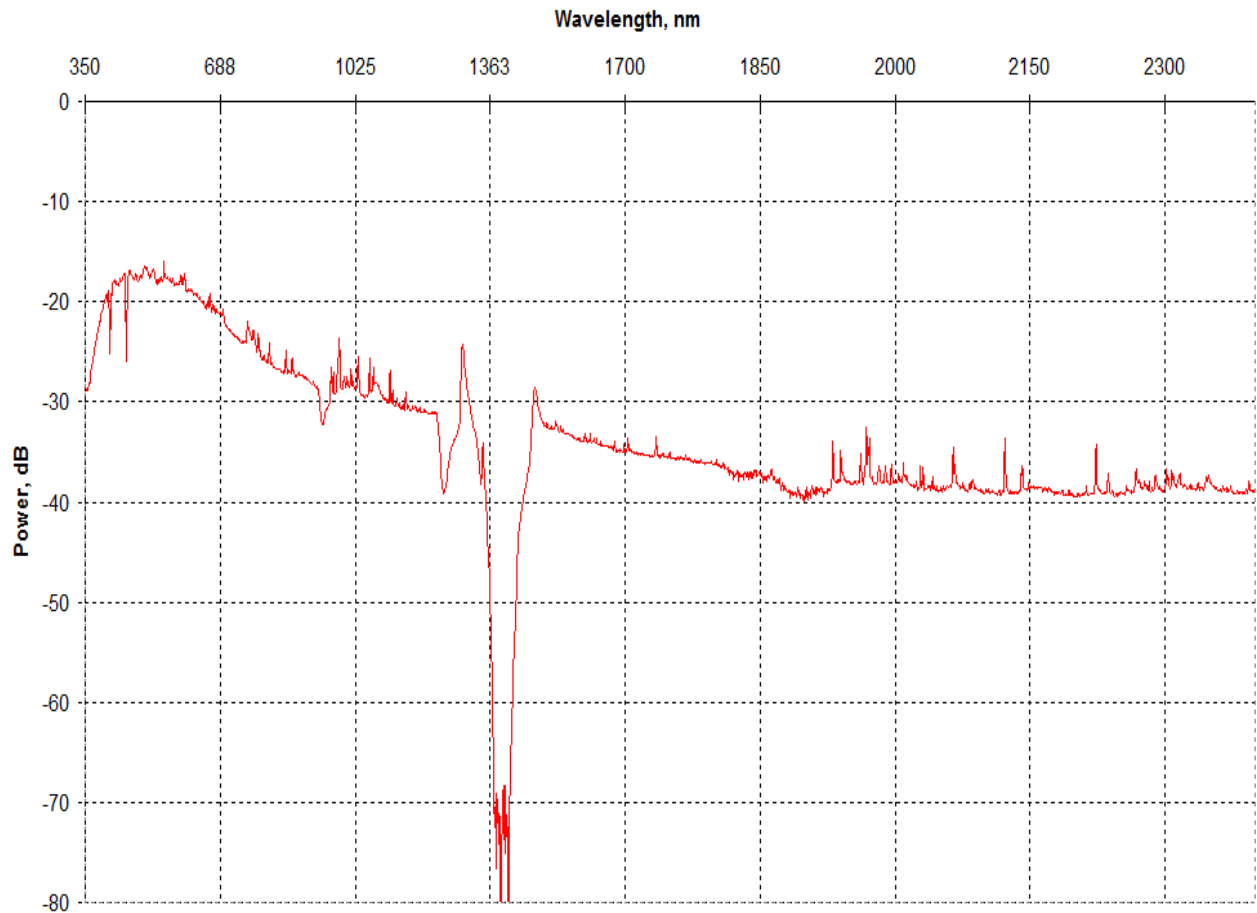
- High luminous flux: up to 2800 lumens
- Continuous spectrum in the range 300-1750 nm with 95 CRI
- Useful lifetime 5-10 times longer than conventional Xenon lamps
- Ultra low flicker
- Dimming and control
- Less than 2% mercury as HID lamps
- UVA output for UV imaging
- Reliable and safe
- RS232 connection and control software (optional)

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### Applications

- Fluorescence Microscopy
- Endoscopy
- Medical Lighting
- Inspection and Machine Vision

### Light Source Spectrum



High Power White Light Source

## OEWSL-200 High Power White Light Source

### OEWSL-200 Optical Specifications

Total Initial Luminous Flux	lm	2800
Correlated Color Temperature (CCT)	K	6500
Color Rendering Index (CRI)	-	95
UVA Output (315-400 nm)	W	0.6
IR Output (700-1000 nm)	W	2
Maximum power	W	238
Dimming Range	%	20-100
Turn-on time	s	10
Rated average life	hrs	10 000

### Power Levels (from the receptacle output)\*

Adjusted Power level, [%]	Output Power [mW] in MMF with core size:			
	200 $\mu$ m	400 $\mu$ m	600 $\mu$ m	1000 $\mu$ m
20	10	20	50	90
50	15	40	80	180
100	20	60	110	270

\* Measured with sample MMF patchcords. When using custom patchcords, power may vary. Power in the free space is significantly higher.

### General Specifications

Operating method	Manual, with switch at 100% of power level Software; adjustment of 20-100% of power level
Connectivity	Receptacle for SMA; MM fiber pigtail (optional)
Operating temperature	5°C to 45°C (41°F to 113°F)
Storage temperature	-20°C to 100°C (-4°F to 212°F)
Operating humidity	10% to 90% relative, non-condensing
Storage humidity	5% to 95% relative, non-condensing
Operating altitude	4000 m (12000 ft)
Storage altitude	12000 m (36000 ft)
Size (L x W x H), mm	310 x 350 x 175
Power supply	AC 120V/60Hz; AC 220V/50Hz (optional)

All specifications are subject to change without notice.