

# NORTH PHOTONICS

[OEWLS-200]

## High Power White Light Sources

### 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)



OEWLS-200

### Applications:

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

### Product description:

High Power White Light Source is a solid-state fiber optic light source with a spectrum range 350 - 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 patch-cord with different fiber core sizes from 50um – 2mm. Since it is a solid state light source, it has a life span five times longer than a conventional arc lamp. It's wide 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 from 20-100%. Standard features include Power ON/OFF switch with LED indicator, as well as Laser ON switch, which turn the lamp at 100% power level. The optical output is receptacle for SMA, or MM fiber pigtail, terminated with connector (optional).

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

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

| 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          |

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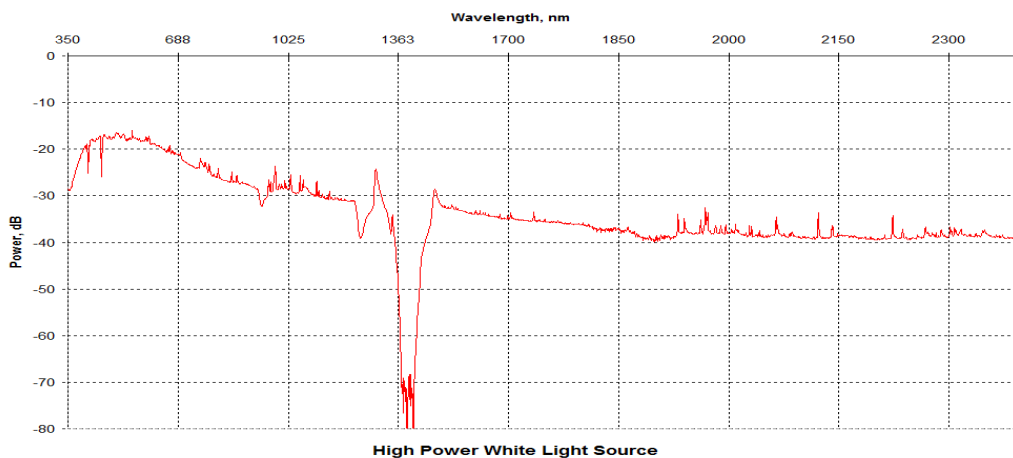
## Optical Specifications:

| Parameter                          | Unit | OEWS-200 |
|------------------------------------|------|----------|
| 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   |

## General Specifications:

|                       |  |
|-----------------------|--|
| Operating method      | Manual, with switch at 100% of power level<br>Software; adjustment of 20-100% of power level |
| Connectivity          | Receptacle for SMA;<br>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)   |
| Dimension (mm)        | 310 x 350 x 175  |
| Power supply          | AC 120V/60Hz; AC 220V/50Hz (optional)  |

- All specifications are subject to change without notice.



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Ordering number:

| OEWS-200-CCC-RS: |                | Connectivity | RS232           |
|------------------|----------------|--------------|-----------------|
|                  |                | SMA<br>MMF   | Y: Yes<br>N: No |
| Example:         | OEWS-200-SMA-Y |              |                 |