# SPECIFICATIONS

## Wavelength

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>Option ± 1 nm available</th>
<th>Low noise version, Model No.</th>
<th>SLM version, Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>375 ± 5 nm</td>
<td></td>
<td>DL-375-060 60 mW</td>
<td>DL-375-015 15 mW</td>
</tr>
<tr>
<td>405 ± 5 nm</td>
<td></td>
<td>DL-405-400 400 mW</td>
<td>DL-405-100 100 mW</td>
</tr>
<tr>
<td>445 ± 5 nm</td>
<td></td>
<td>DL-445-080 80 mW</td>
<td>DL-445-020 20 mW</td>
</tr>
<tr>
<td>473 ± 5 nm</td>
<td></td>
<td>DL-473-250 250 mW</td>
<td>DL-473-050 50 mW</td>
</tr>
<tr>
<td>488 ± 5 nm</td>
<td></td>
<td>DL-488-150 150 mW</td>
<td>DL-488-050 50 mW</td>
</tr>
</tbody>
</table>

## Longitudinal mode

- Multiple
- Single

## Spectrum linewidth

1 nm, typical

## Coherence length

< 0.3 mm

## Output noise (rms, 10Hz-50MHz)

- < 0.5 %
- < 0.5 %

## Output stability over 24 hours (rms)

- < 1 %; Option: ultra-stable version <0.25%
- 2 %

## Modulation options

- TTL 50kHz, 20MHz, 100 MHz, 200MHz; Analog control, Analog modulation
- TTL on/off option

## Transverse mode

- Circular beam, close to TEM00, M^2 = 1.1 - 1.3

## Beam diameter (1/e^2)

- 1.1 mm
- Option: 0.8 mm beam with 0.9 mrad divergence

## Beam divergence

- 0.6 mrad

## Beam pointing stability

- < 0.005 mrad/°C

## Polarization ratio

- 100:1; Vertical linear polarization

## Operation temperature

5 °C to 40 °C, internal TEC temperature-stabilized, no additional heat sink required

## Warm-up time

- < 30 seconds

## Operation voltage

- 90-250 VAC or 12VDC OEM version 11-16VDC

## Dimensions and weight of laser head

- 3 x 3.6 x 13.5 cm^3 (1.2 x 1.4 x 5.3 in^3), 0.3 kg (0.6 lb)

## Dimensions and weight of power supply

- Standard AC: 5 x 14 x 15 cm^2 (2 x 5.5 x 6 in^2), 0.5 kg (1 lb); CL-2005 power display AC: 5 x 16 x 15 cm^2 12 VDC OEM version: Integrated inside the laser head.

## Applications

- Holography, Flow cytometry, Fluorescence, Confocal microscopy, Raman Spectroscopy

## Fiber coupling option

- Single mode and multi-mode fiber delivery.

## CL-2005 power supply option

- Power adjustable and power digital display.

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