NarrowScanK
Compact Dye Laser

Features:

* 1 - 100 Hz repetition rate
* up to 1J pump energy @ 532 nm
* Small size
* Oscillator with vertical design
* Easy and fast dye change
* High-precision mechanical components
Specifications of NarrowScanK:

Energy of the Oscillator with vertical design:

Beamprofile with Bethune cell:

Configurations:

<table>
<thead>
<tr>
<th>NarrowScanK</th>
<th>Grazing Grating</th>
<th>Tuning Element</th>
<th>Tuning Range</th>
<th>Bandwidth [cm⁻¹]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Grating</td>
<td>1800 l/mm</td>
<td>Mirror</td>
<td>370 – 900 nm</td>
<td>≤ 0,07 @ 580 nm</td>
</tr>
<tr>
<td>Single Grating</td>
<td>2400 l/mm</td>
<td>Mirror</td>
<td>370 – 740 nm</td>
<td>≤ 0,06 @ 580 nm</td>
</tr>
<tr>
<td>Single Grating</td>
<td>3000 l/mm</td>
<td>Mirror</td>
<td>370 – 610 nm</td>
<td>≤ 0,05 @ 580 nm</td>
</tr>
<tr>
<td>Double Grating</td>
<td>1800 l/mm</td>
<td>1800 l/mm</td>
<td>370 – 850 nm</td>
<td>≤ 0,05 @ 625 nm</td>
</tr>
<tr>
<td>Double Grating</td>
<td>2400 l/mm</td>
<td>2400 l/mm</td>
<td>370 – 710 nm</td>
<td>≤ 0,04 @ 580 nm</td>
</tr>
<tr>
<td>Double Grating</td>
<td>3000 l/mm</td>
<td>3000 l/mm</td>
<td>370 – 580 nm</td>
<td>≤ 0,03 @ 570 nm</td>
</tr>
</tbody>
</table>

Beam and wavelength specifications:

- Wavelength reproducibility @ 580 nm < 0,0025 nm (typically < 0,0009 nm)*
- Absolute accuracy of the wavelength @ 580 nm < 0,02 nm (typically < 0,01 nm)*
- Wavelength stability < 0,001 nm/°C
- Divergence 0,5 mrad
- Polarization > 98 %
- ASE-background < 0.5 %
  * temperature stabilized

Dimensions

660 x 420 x 325 mm

All specifications are subject to change without notice.

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