Vortex Lens V-532-10

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength:</td>
<td>532 nm</td>
</tr>
<tr>
<td>Topological number:</td>
<td>l = 1</td>
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<tr>
<td>Number of steps:</td>
<td>64</td>
</tr>
<tr>
<td>Measured total height:</td>
<td>1154 nm</td>
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<tr>
<td>Material:</td>
<td>fused silica</td>
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<tr>
<td>Coating:</td>
<td>none</td>
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Applications

- STED-microscopy
- Optical vortex coronographs
- Lithography
- Optical tweezers and manipulations
- Data transfer

Application Notes

1) Ensure a good quality of the laser beam. We recommend:
   a) a Gaussian beam profile (TEM00) and circular polarization
   b) a high laser wavelength stability over time and power
2) Mount the vortex lens into a XY translation stage (best way to match the optical axis of the vortex lens)
   a) The vortex lens can be placed into a 1/2 inch lens mount
   b) The lens can be placed into a rectangular mount (11x11 mm)
3) Expand the laser beam over the whole working apperture of the vortex lens (10 mm)
4) After the vortex lens, adjust the beam size to match your focussing optics
5) Avoid touching the surface of the vortex lens.
6) Always use laser safety goggles!