UV LC Variable Retarder/Waveplate

Liquid crystal technology for polarization control now extends into the ultraviolet. They can be custom configured for use as variable attenuators or polarization rotators. Meadowlark’s standard line of liquid crystal controllers can be used for these new variable retarders.

Key Features
- Phase or Amplitude modulation of UV spectrum
- Analog modulation
- Non-mechanical polarization control

SPECIFICATIONS

- Retarder Material: Nematic liquid crystal
- Substrate Material: UV grade Fused Silica
- Minimum Wavelength: 230 nm
- Maximum Retardance*: 1/2 λ at 400 nm
- Minimum Retardance: 0.06 λ at 400 nm (at 10 V)
- Reflectance*: AR Coatings are available
- Operating Temperature Range: 0° C to +50° C

*Custom configurations available.

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Clear Aperture</th>
<th>Thickness</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00 in. [25.4 mm]</td>
<td>0.37 in. [9.4 mm]</td>
<td>1.23 in. [31.2 mm]</td>
<td>LVR-100-UV</td>
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<tr>
<td>2.00 in. [50.8 mm]</td>
<td>0.70 in. [17.8 mm]</td>
<td>0.75 in. [19.05 mm]</td>
<td>LVR-200-UV</td>
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