The new F-Theta-Power-Ronar lenses are high quality lenses for high precision galvo systems, complementing the existing well known LINOS F-Theta-Ronar lens series.

The advanced glass design as well as the coating design increase the power level for new applications.

The focal lengths 160 mm, 330 mm and 420 mm allow diagonal scan lengths of 140 mm, 288 mm and 410 mm respectively.

All F-Theta-Power-Ronar lenses have the same screw thread of M85x1.

- F-Theta-Power-Ronar lenses
- focal lengths 160 mm, 330 mm and 420 mm
- wavelength 532 nm
### F-Theta-Power-Ronar lenses

<table>
<thead>
<tr>
<th>EFL</th>
<th>λ</th>
<th>BFL</th>
<th>FFL</th>
<th>2y_max</th>
<th>±θ_max</th>
<th>Øbeam</th>
<th>Øspot</th>
<th>M1/m2</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>160</td>
<td>160</td>
<td>532</td>
<td>188.3</td>
<td>203.5</td>
<td>139.6</td>
<td>+/-25</td>
<td>15</td>
<td>12</td>
<td>16/16</td>
</tr>
<tr>
<td>330</td>
<td>329.9</td>
<td>532</td>
<td>391.9</td>
<td>444</td>
<td>287.9</td>
<td>+/-25</td>
<td>14</td>
<td>23</td>
<td>18/24</td>
</tr>
<tr>
<td>420</td>
<td>419.8</td>
<td>532</td>
<td>497.5</td>
<td>549.2</td>
<td>410.4</td>
<td>+/-28</td>
<td>15</td>
<td>27</td>
<td>30/16</td>
</tr>
</tbody>
</table>

* Meets F-Theta condition of 0.5%
** Meets F-Theta condition of 0.1%

- The mirror distances \( m1 \) and \( m2 \) are recommended values.
- The overall scan angle \( θ \) refers to the maximum diagonal scan angle.
- The scan length can be calculated with the formula:

\[
2y' = EFL \times 2\Theta \times \pi/180
\]

\( 2y' \): scan length or diagonal [mm]
\( EFL \): effective focal length [mm]
\( 2\Theta \): overall scan angle [°]
\( \pi/180 \): conversion factor from degrees to radians

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**NEW**

LINOS Photonics GmbH & Co. KG, Germany
Phone +49 (0)89 255 458-699
E-mail lmp@linos.de

Qioptiq LINOS Inc., USA
Phone +1 (585) 223-2370
E-mail info@qioptiqinos.com

LINOS Photonics Ltd., UK
Phone +44 (0) 1908 262525
E-mail sales@linos.co.uk

LINOS Photonics SAS, France
Phone +33 (0)4 72 52 04 20
E-mail info-fr@linos.com

www.linos.com