

15mm Dia. Mirror, Protected Silver, Optotune Dual Axis Fast Steering Mirror with Position Feedback

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Stock **#14-574** CLEARANCE CONTACT US

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1

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€2.044<sup>95</sup>

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SPECIFICATIONS

| General                                                                                                                                                                                                                 |                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| MR-15-30-PS-25x25D                                                                                                                                                                                                      | <b>Model Number:</b>               |
| <b>Note:</b><br>Do not connect or disconnect the mirror head while the base unit is connected to power as this will damage the mirror driver.                                                                           |                                    |
| Physical & Mechanical Properties                                                                                                                                                                                        |                                    |
| 15.00                                                                                                                                                                                                                   | <b>Diameter (mm):</b>              |
| 2                                                                                                                                                                                                                       | <b>Step Response 0.1° (ms):</b>    |
| 12                                                                                                                                                                                                                      | <b>Step Response 20° (ms):</b>     |
| 45                                                                                                                                                                                                                      | <b>Housing Diameter (mm):</b>      |
| ±25                                                                                                                                                                                                                     | <b>Mechanical Tilt (°):</b>        |
| 30 - 100 RMS                                                                                                                                                                                                            | <b>Repeatability (μrad):</b>       |
| Optical Properties                                                                                                                                                                                                      |                                    |
| Protected Silver                                                                                                                                                                                                        | <b>Coating:</b>                    |
| 60-40                                                                                                                                                                                                                   | <b>Surface Quality:</b>            |
| ±25 (Mechanical)<br>±50 (Optical)                                                                                                                                                                                       | <b>Scan Angle (°):</b>             |
| R <sub>avg</sub> >94% @ 400 - 2000nm                                                                                                                                                                                    | <b>Coating Specification:</b>      |
| Hardware & Interface Connectivity                                                                                                                                                                                       |                                    |
| 15 - 28 VDC                                                                                                                                                                                                             | <b>Power Requirement:</b>          |
| Windows® 10                                                                                                                                                                                                             | <b>Operating System:</b>           |
| <b>Power Supply:</b><br>Power Supply Required and Sold Separately:<br>USA: <a href="#">#14-576</a><br>Europe: <a href="#">#14-576</a><br>Japan: Not Available<br>Korea: Not Available<br>China: <a href="#">#14-576</a> |                                    |
| Environmental & Durability Factors                                                                                                                                                                                      |                                    |
| 0 to +40                                                                                                                                                                                                                | <b>Operating Temperature (°C):</b> |
| -40 to +85                                                                                                                                                                                                              | <b>Storage Temperature (°C):</b>   |
| Regulatory Compliance                                                                                                                                                                                                   |                                    |
| <a href="#">Compliant</a>                                                                                                                                                                                               | <b>RoHS 2015:</b>                  |
| <a href="#">Compliant</a>                                                                                                                                                                                               | <b>Reach 224:</b>                  |
| <a href="#">View</a>                                                                                                                                                                                                    | <b>Certificate of Conformance:</b> |

## PRODUCT DETAILS

- ±50° of Optical Scanning
- Protected Gold or Silver, and VIS Dielectric Coated Mirror Options
- Compact 45mm Diameter Housing Footprint
- Control via USB, SPI, or Analog Input

Optotune Fast Steering Mirrors provide a larger optical scanning range and mirror size than conventional galvanometers or micro-electro-mechanical (MEMS) mirrors. This dual axis voice-coil mirror (VCM) has a compact footprint with a large 15mm mirror that can be adjusted with ±25° of mechanical tilt for ±50° of optical scanning range. The mirror is operated using the [Optotune Cockpit GUI](#) via USB, serial peripheral interface (SPI), or analog input. Optotune Fast Steering Mirrors are available with a protected silver or gold, and VIS dielectric coating, enabling their use in both visible and near-infrared (NIR) applications. Typical applications for these fast steering mirrors include automotive LiDAR, biometric eye tracking, and field of view expansion of vision systems.

**Note:** [#14-574](#), [#14-575](#), and [#18-281](#) require [#14-576](#) for operation and [#73-039](#), [#73-042](#), and [#73-043](#) require [#73-038](#) for operation. A heatsink is included with each mirror and recommended to be used to ensure proper heat-dissipation. Do not connect or disconnect the mirror head while the base unit is connected to power as this will damage the mirror driver.