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

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## Product Downloads

## General

**Note:**

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

2 - 2.5 **Step Response (µsec):**

15.00 **Diameter (mm):**

8 (@ 10°) **Step Response 20° (ms):**

±25 **Mechanical Tilt (°):**

30 - 100 RMS **Repeatability (µrad):**

## Optical Properties

Protected Silver **Coating:**

60-40 **Surface Quality:**

±25 (Mechanical) ±50 (Optical) **Scan Angle (°):**

Ravg >94% @ 400 - 2000nm **Coating Specification:**

## Hardware & Interface Connectivity

24 - 48 VDC **Power Requirement:**

Windows® 10 **Operating System:**

**Power Supply:**  
Power Supply Required and Sold Separately.  
USA: [#73-038](#)  
Europe: [#73-038](#)  
Japan: Not Available  
Korea: Not Available  
China: [#73-038](#)

## Environmental & Durability Factors

0 to +40 **Operating Temperature (°C):**

-40 to +85 **Storage Temperature (°C):**

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 240:**

## Product Details

- ±50° of Optical Scanning
- Protected Gold or Silver, and MS 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 MS 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.