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

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Stock #73-042 **3 In Stock**

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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

Step Response (µsec):

2 - 2.5

Diameter (mm):

15.00

Step Response 20° (ms):

8 (@10°)

Mechanical Tilt (°):

±25

Repeatability (µrad):

30 - 100 RMS

## Optical Properties

Coating:

Protected Silver

Surface Quality:

60-40

Scan Angle (°):

±25 (Mechanical) ±50 (Optical)

Coating Specification:

Ravg >94% @400 - 2000nm

## Hardware & Interface Connectivity

Power Requirement:

24 - 48 VDC

Operating System:

Windows® 10

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

Operating Temperature (°C):

0 to +40

Storage Temperature (°C):

-40 to +85

## Regulatory Compliance

RoHS 2015:

[Compliant](#)

Certificate of Conformance:

[View](#)

Reach 240:

[Compliant](#)

## 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.