

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

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

-

1

+

€2.955<sup>00</sup>

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ⓘ Prices shown are exclusive of VAT/local taxes

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 Required and Sold Separately.<br>USA: <a href="#">#73-038</a><br>Europe: <a href="#">#73-038</a><br>Japan: Not Available<br>Korea: Not Available<br>China: <a href="#">#73-038</a> | Power Supply: |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

Environmental & Durability Factors

|          |                             |
|----------|-----------------------------|
| 0 to +40 | Operating Temperature (°C): |
|----------|-----------------------------|

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

Regulatory Compliance

|                           |            |
|---------------------------|------------|
| <a href="#">Compliant</a> | RoHS 2015: |
|---------------------------|------------|

|                      |                             |
|----------------------|-----------------------------|
| <a href="#">View</a> | Certificate of Conformance: |
|----------------------|-----------------------------|

|                           |            |
|---------------------------|------------|
| <a href="#">Compliant</a> | Reach 240: |
|---------------------------|------------|

Product Details

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