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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** **8 In Stock**

-

1

+

CS\$4,137⁰⁰

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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.