

15mm Dia. Mirror, VIS Dielectric, Optotune Dual Axis Fast Steering Mirror with Position Feedback

#73-043



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 $\pm 25^\circ$ of mechanical tilt for $\pm 50^\circ$ 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.

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 (μ sec):	2 - 2.5
Diameter (mm):	15.00
Step Response 20° (ms):	8 (@ 10°)
Mechanical Tilt (°):	± 25
Repeatability (μ rad):	30 - 100 RMS

Optical Properties

Coating:	Dielectric Mirror (400-750nm)
Surface Quality:	60-40
Scan Angle (°):	± 25 (Mechanical) ± 50 (Optical)
Coating Specification:	Ravg $\geq 98\%$ @ 400 - 750nm

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

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Close Window

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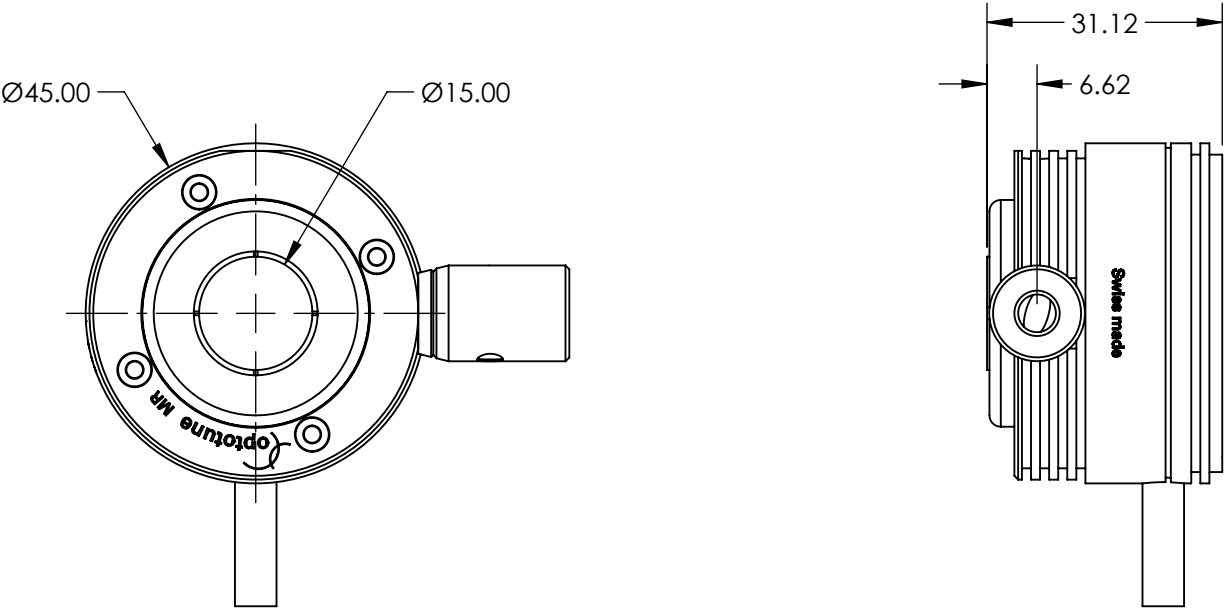
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- NOTES:
- 1. COATING (APPLY ACROSS CLEAR APERTURE):
R(AVG) >98% @ 400 - 750nm
 - 2. RoHS: COMPLIANT

**FOR INFORMATION ONLY:
DO NOT MANUFACTURE
PARTS TO THIS DRAWING**



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
DIMENSIONS ARE FOR REFERENCE ONLY

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	VALUE				
MECHANICAL TILT (°)	±25	THIRD ANGLE PROJECTION		TITLE	15mm Dia. Mirror, VIS Dielectric, Optotune Dual Axis Fast Steering Mirror with Position Feedback
SURFACE QUALITY	60-40			DWG NO	18281
POWER REQUIREMENT (VDC)	15 - 28				SHEET 1 OF 1