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5mm Aperture, SilverMAX, Saturn 5B Dual Axis Imaging Galvanometer Scanner

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General

Type:
Dual Axis

Model Number:
ScannerMAX Saturn 5B

Physical & Mechanical Properties

Mirror Aperture (mm):

5

Dimensions (mm):
52.6 x 46.9 x 41.4 (of mount. Galvos protrude ~19mm)

Rotor Inertia (gm-cm²):
0.026

Torque Constant (dyne-cm/A):
36,000

Step Response 0.1° (µs):
140

Optical Properties

Surface Flatness (P-V):
≤λ/8 @ 632.8nm

Coating:
SilverMAX

Scan Angle (°):
40 (Optical)

Substrate:
Silicon Carbide

Electrical

Position Signal (V):
±10

Current - Peak (A):
Maximum: 25

Current - RMS (A):
4.7 (Case @ 50°C)

Coil Resistance (Ω):
1.95

Coil Inductance (µH):
135

Back EMF Voltage (µV/°/s):
62.8

Hardware & Interface Connectivity

Power Requirement:
±24 VDC

Power Supply:
Power Supply Required and Sold Separately: USA: #16-045 Europe: 2 x #14-571 Japan: #16-045 Korea: N/A* China: #16-045 *See copy for power supply requirements

Environmental & Durability Factors

Operating Temperature (°C):
0 to +50

Regulatory Compliance

Certificate of Conformance:
View

Product Details

- 5mm Mirror Aperture
- Configurated as Dual Axis
- Ideal for Microscopy and Optical Coherence Tomography (OCT)

ScannerMAX Saturn Imaging Galvanometer Optical Scanners have been carefully optimized to provide improved functionality for imaging applications, such as Optical Coherence Tomography (OCT) and Microscopy. Designed with λ/8 surface flatness and >98% average reflectivity from 450nm through 2300nm, these galvos will support a 5mm diameter beam with a 40° optical scan angle. Featuring a reduced mirror spacing compared to **ScannerMAX Saturn Galvanometer Optical Scanners**, a repeatability of 15 microradians is achieved on the back focal plane of the imaging objective. ScannerMAX Saturn Imaging Galvanometer Optical Scanners are programmed with four servo driver tunings optimized for imaging systems, offering small signal bandwidths of 2.9 kHz and 4 kHz. These galvos are ideal for applications such as, confocal microscopy, multiphoton microscopy, laser scanning microscopy, and laser micro-machining.

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