

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

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1

+

£3,780⁰⁰

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General

Type:	
Dual Axis	
Model Number:	
ScannerMAX Saturn 5B	

Physical & Mechanical Properties

Mirror Aperture (mm):

5	
	Dimensions (mm):
52.6 x46.9 x41.4 (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
- Configured 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.