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ScannerMAX Saturn Galvanometer Optical Scanners

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Stock **#29-586** **2 In Stock**

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General

Note:

Compatible with:
Any SATURN 1 SYSTEM (#16-039 or #16-042) with Serial Numbers higher than PS102838
Any SATURN 5 SYSTEM (#16-040 or #16-043) with Serial Numbers higher than PS501904
Any SATURN 9 SYSTEM (#16-041, #16-044, #21-969) with Serial Numbers higher than PS903670
Any COMPACT 506 SYSTEM (#16-036, #16-037, or #16-038)

Physical & Mechanical Properties

Length (m):

5

Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

View

REACH 241:

Compliant

Product Details

- 3, 5, and 10mm Mirror Apertures
- Single Axis and Dual Axis Configurations
- High Performance Scanners for Imaging and Projection Applications

ScannerMAX Saturn Galvanometer Optical Scanners are designed to achieve the highest peak and RMS scanning performance for biomedical, laser material processing, and laser imaging applications. Compared to conventional galvanometers, the Saturn series of galvanometers are manufactured with stronger, stiffer rotors to prevent cross-axis scanning (wobble) at high scan speeds and generate less heat due their low coil resistance, allowing for faster performance without overheating or rotor damage. These galvanometers are available as a single axis (1D galvo) configuration with a Y-Axis mount or as a dual axis (2D galvo) configuration with an X-Y Axis Mount. ScannerMAX Saturn Galvanometer Optical Scanners are ideal for demanding imaging and projection applications such as confocal microscopy, laser entertainment displays, optical coherence tomography (OCT), and raster imaging, as well as laser marking applications. Galvanometers with 3mm, 5mm, and 10mm mirror apertures are available with a protected silver coating, covering small to large beam applications in the visible or infrared; please contact us if your application requires a Saturn galvanometer scanner with a custom mirror aperture or coating.

ScannerMAX Saturn Galvanometer Optical Scanners are driven by the Mach-DSP Servo Driver. This digital servo driver features a compact package size and simultaneously controls both X-Axis and Y-Axis scanners. The Mach-DSP can be controlled by both analog and digital signals, and it can be accessed and adjusted using a free GUI software package, which includes a built-in test pattern generator, oscilloscope, and dynamic signal analyzer. The Mach-DSP Servo Driver requires ±24 VDC of power.

Note: For European customers, 2 units of power supply **#14-571** are required for operation.

Various longer or shorter galvo to servo cables are available in the accessories tab. Please note that these cables are compatible with all Compact 506 Systems as well as the following list of Saturn Systems:

Any Saturn 1 System (16-039 or 16-042) with Serial Numbers higher than PS102838
Any Saturn 5 System (16-040 or 16-043) with Serial Numbers higher than PS501904
Any Saturn 9 System (16-041, 16-044, 21-969) with Serial Numbers higher than PS903670

Each single axis galvanometer system ships with:

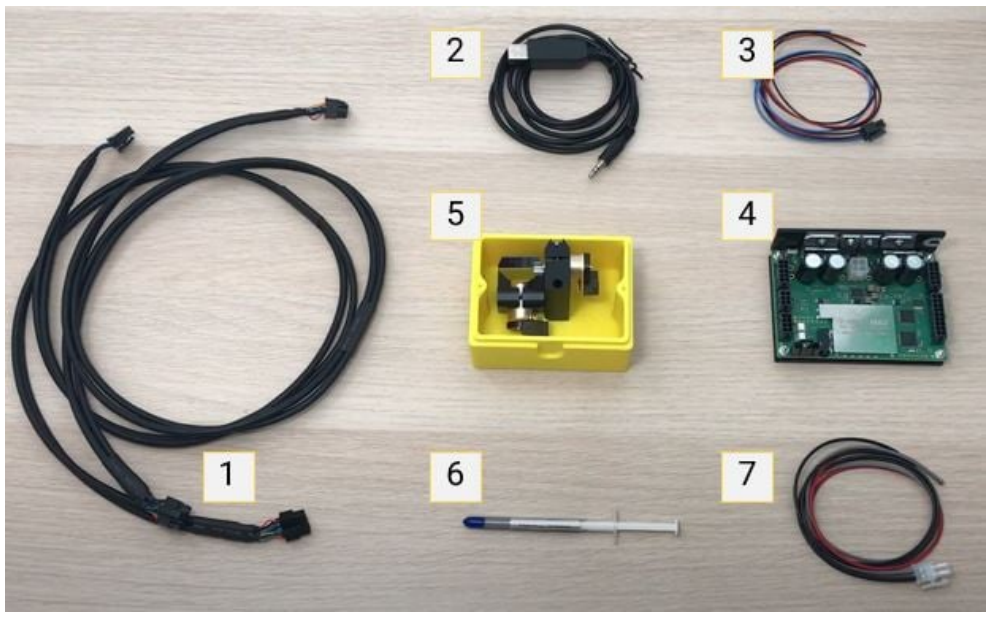
- 1 x Saturn Series Galvanometer
- 1 x Y Axis Mount
- 1 x Mach-DSP Servo Driver Board
- 1 x 1-meter-long cable that connects the galvanometer to the servo driver
- 1 x Cable kit including power and analog input cables

Each dual axis galvanometer system ships with:

- 2 x Saturn Series Galvanometer
- 1 x X-Y Axis Mount
- 1 x Mach-DSP Servo Driver Board
- 2 x 1-meter-long cables that connect the galvanometer to the servo driver
- 1 x Cable kit including power and analog input cables

Technical Information

WHAT'S INCLUDED WITH YOUR SCANNERMAX SCANNER	
Item Number	Description
1	Galvo to Servo Driver Connection Cable (1 with Single Axis Scanners, 2 with Dual Axis)
2	Digital Input Cable for Servo Driver
3	Analog Input Cable for Servo Driver
4	Mach-DSP Servo Driver Board
5	Galvanometer
6	Thermal Paste
7	Power Cable



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