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# FB3 Laser/Galv

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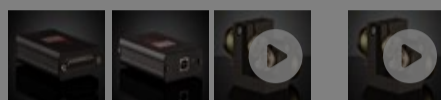


Stock #21-970 **1 In Stock**

1

€600<sup>00</sup>

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Qty	€600,00
1+	each
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### Product Downloads

- Start Up Guide
- Spec Sheets
- User Manual:pdf
- Software
- Software
- Software Manual
- EO Spec Sheet

## General

**Note:** The FB3 is an optional accessory that can be used with a DB-25 breakout board to communicate with a galvo and laser (with TTL input) to create patterns or light show effects using Quickshow software. The DB-25 connector conforms to the ILDA DB-25 connector standard.

## Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: [View](#)

## 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 PS102838

Any Saturn 9 System (16-041, 16-044, 21-969) with Serial Numbers higher than PS102838

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Each single axis galvanometer system ships with:

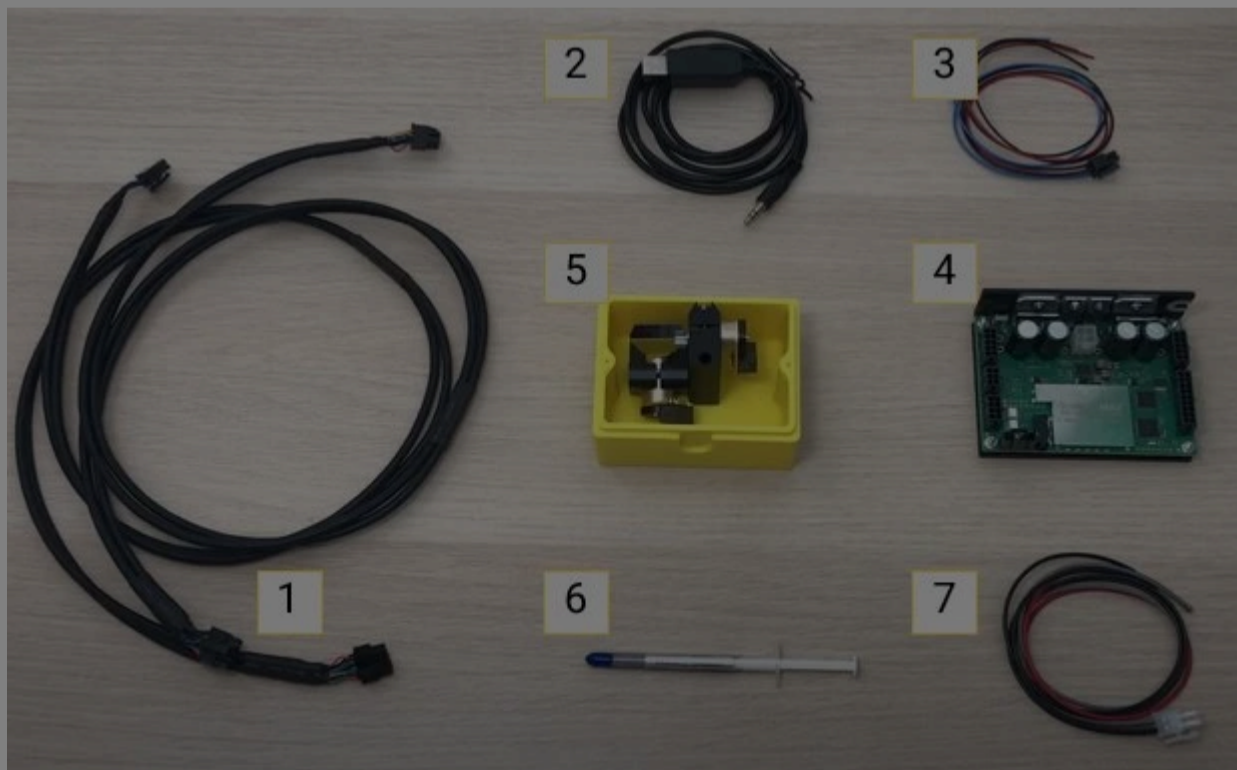
- 1 x Saturn Series Galvanometer
- 1 x Y Axis Mount
- 1 x Mach-DSP Servo Driver Board
- 1 x 1-meter-long cable that connects the galvanometer to the servo driver
- 1 x Cable kit including power and analog input cables

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

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



## Accessories

**Note:** Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	FB3 Laser/Galvo Control Hardware		#21-970	€600,00	1 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	24V DC, 4A Single Output Power Supply				13 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	25cm ScannerMAX Galvo to Servo Cable			Request Quote	3 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	45cm ScannerMAX Galvo to Servo Cable		#29-580	€68,50 Request Quote	1 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	55cm ScannerMAX Galvo to Servo Cable		#29-581	€68,50 Request Quote	3 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	1m ScannerMAX Galvo to Servo Cable		#29-582	€68,50 Request Quote	2 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	2m ScannerMAX Galvo to Servo Cable		#29-583	€104,00 Request Quote	2 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	3m ScannerMAX Galvo to Servo Cable		#29-584	€104,00 Request Quote	5 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	4m ScannerMAX Galvo to Servo Cable		#29-585	€104,00 Request Quote	3 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	5m ScannerMAX Galvo to Servo Cable		#29-586	€104,00 Request Quote	2 In Stock <input type="text" value="1"/>

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### Frequently Purchased Together



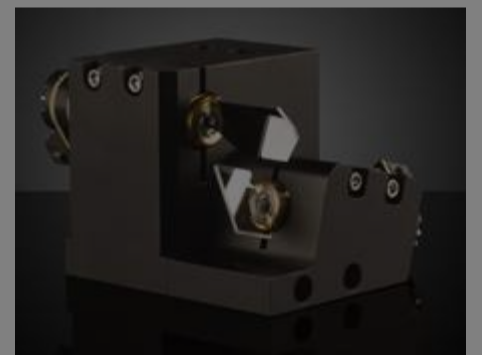
#14-571 - 24V DC, 4A Single Output Power Supply  
€99,00



#16-036 - 3mm Aperture, Protected Silver, Compact 506 Dual Axis Galvanometer Scanner  
€2.835,00



#16-037 - 5mm Aperture, Protected Silver, Compact 506 Dual Axis Galvanometer Scanner  
€2.625,00



#16-041 - 10mm Aperture, Protected Silver, Saturn 9B Dual Axis Galvanometer Scanner  
€4.095,00

## Resources

#### Media Type

- Video
- Glossary
- Application Note
- FAQ
- Scientific Paper

**VIDEO**

Beam Combining for Increased Power

**GLOSSARY**

Pockels Cell

**APPLICATION NOTE**

Beam Quality and Strehl Ratio

APPLICATION NOTE

Laser Resonator

APPLICATION NOTE

Simplifying Laser

VIDEO

Aligning Mount for AdlOptica Beamshapers

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