

# Optical Scanner Galvanometer Controller

Advanced Galvanometer Technology | Industrial & Medical Galvo-Resonant Scanners and Controllers  
 Small Beam Diameter Scanning Galvo Mirror Systems  
 Laser Beam Applications | Advanced ScanMaster Controller  
 Optical Scanner Galvanometer Controller  
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 Optical scanner galvanometer controller.doc 1 Optical scanner galvanometer controller 1. Introduction Laser beam scanning is almost ubiquitous in confocal and similar laser scanning microscopy instruments. It is most often achieved by using a pair of mirrors driven by galvanometer-type drivers. Optical scanner galvanometer controller - University of Oxford  
 Our popular 62xxH Series of scanners is considered the industry standard for galvanometer-based optical laser scanning. Our advanced solutions are built with proprietary technology that is reliable, robust, and cost-effective for an extensive range of scanning applications. Galvanometer Optical Laser Scanner | Cambridge Technology  
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 This scanner offers a large scan field with a galvo optical scan range of  $\pm 15^\circ$  ( $\pm 7.5^\circ$  mechanical scan range) and a resonant optical scan range of  $\pm 10^\circ$  ( $\pm 5^\circ$  mechanical scan range). Intended for plug-and-play operation, the scan head connects to the controller using the included DB25 cable. Galvo-Resonant Scanners and Controllers  
 The small form-factor of our galvanometer XY sets are designed for easy integration within compact instrument designs such as Optical Coherence Tomography (OCT) systems. Our scanner sets raster at a constant velocity required for fast, high-quality, repeatable scans that minimize the amount of time needed to perform patient imaging. Laser Beam Applications | Advanced ScanMaster Controller  
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 Our LSKGG4(M) Galvo-Galvo Scanner contains two galvo scan mirrors that deflect an incident laser beam in X and Y. Identical to the galvo-galvo scanner used in our Bergamo® II multiphoton microscopes and complete Cerna®-based confocal systems, each mirror has a mechanical scan range of  $\pm 15^\circ$ . Galvo-Galvo Scan Head and Controller  
 Our galvanometer positioning speed comes from advanced rotor and mirror designs optimized for the highest resonant frequency. The actuator laser beam technology features extremely high torque along with very little electrical inductance, thus providing high scanner speeds at reduced power supply voltages. Advanced Galvanometer Technology | Industrial & Medical  
 With close to 50 years of expertise, Cambridge Technology designs, develops, and manufactures innovative laser beam steering solutions including galvanometer and polygon-based optical scanning components, 2-axis and 3-axis scan heads, scanning subsystems, high power scanning heads, and controlling hardware and software. Laser Beam Steering Solutions | Cambridge Technology ... Advantages of digital servo amplifiers for control of a galvanometer based optical scanning system D.A. Sabo SCANLAB America Inc. 11427 Reed Hartman Highway Cincinnati, Ohio 45241 Andreas Engelmayer SCANLAB AG Benzstrasse 28 82178 Puchheim, Germany ABSTRACT  
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 These high-speed Scanning Galvanometer Mirror Positioning Systems are designed for integration into OEM or custom laser beam steering applications that utilize laser beams smaller than 5 mm in diameter. Each system includes a single- or dual-axis galvo motor and mirror assembly, associated driver ca  
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electronics, the scanner ...

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high scanner speeds at reduced power supply voltages.

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