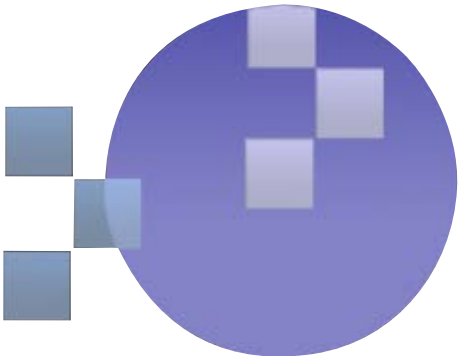


Scanners, Scan Heads,
Drivers, and Controllers



A World of Optical Scanning Solutions

for Marking, Welding, Drilling,
Cutting, Material Processing, and
Imaging Applications






General Scanning offers a wide range of optical scanner solutions: Wide-bandwidth moving magnet scanners for vectoring or step and hold applications, resonant scanners for high-speed raster applications, and models with flexures for ultra-long life. All models are available with a range of mirror coatings and mirror materials to match your requirements. Driver electronics for servo control provide the highest performance and accuracy.

Scanners and Galvanometers


M-Series

- Moving magnet scanners for a wide range of applications
- Variable frequency
- Mirror sizes: 9 - 50 mm clear aperture
- Optical scanning range: up to $\pm 30^\circ$ optical




VM-Series

- Moving magnet scanners for a wide range of applications
- Variable frequency
- Mirror sizes: 4 - 15 mm clear aperture
- Optical scanning range: up to $\pm 45^\circ$ optical



CRS-Series

- Resonant scanners for high-speed raster applications
- Counter-rotation design for long life and low power consumption
- Mirror sizes: 4 or 10mm clear aperture
- Frequencies: 2kHz -12kHz (Call for details)
- Optical scanning range: typically $\pm 10^\circ$ (Below 6kHz) and $\pm 7.5^\circ$ (Above 6kHz) optical




FM-Series

- Moving magnet scanners with flexures for long-lifetime
- Variable frequency
- Mirror sizes: 15 - 30mm clear aperture
- Optical scanning range: up to $\pm 30^\circ$ optical



G-Series

- Moving iron scanners for a wide range of applications
- Variable frequency
- Mirror sizes: 5 - 30mm clear aperture
- Optical scanning range: up to $\pm 50^\circ$ optical



Servo Drivers

MiniSAX

- Single-axis high performance driver board
- Optional adjustable filter and thermal control
- Drives M, VM, FM and G Series scanners



CRS Driver

- Single-axis driver board
- Performs scan angle amplitude control
- Adjustable TTL output synch signal
- Drives CRS Series scanners

Choose from ready-made 3-axis or 2-axis scan head assemblies, controllers, and control software for your laser beam and image steering applications. Before shipment, we perform tuning for optimized operation and optical alignment so you just bolt the scan head into your system.



Multi-Axis Scan Heads

HPLK

- Flexible 3-axis laser scan head system
- Cost effective solution for large field scanning requirements or applications that require a large scan aperture to achieve a small focused spot size
- Incorporates X and Y scanners, and an adjustable focusing lens before the scan head



HBX8/HBX10

- Highest performing 2-axis scan head for up to 10mm clear aperture
- Uses latest VM scanner and digital driver technology for maximum performance
- Standard electrical and mechanical interfaces compatible with previous scan heads
- ScribeSmart™ configuration available for fully autonomous operation
- Environmentally sealed for industrial applications



HSM15

- High speed 2-axis scan head optimized for marking applications
- Rapid character writing speeds with fine spot quality
- High accuracy and stability
- Industry standard mechanical and electrical interfaces
- Broad range of lens kits to achieve the spot size that your application requires
- Environmentally sealed for industrial applications



HPM10

- High performance laser scanning module
- High-speed, accuracy and stability
- Available with f-theta lenses for a variety of field sizes
- Compatible with standard interface cards and software
- Environmentally sealed for industrial conditions



Controllers

HC/3 Controller Electronics with WinMCL+ Software

- For all scan heads
- Performs complete multi-axis scan head control with vector, raster, and point-and-shoot modes
- Configurable laser control and safety features
- For PCI bus and Windows XP, 2000 or NT



ScribeSmart

- Stand-alone scan control and laser control
- For 2-axis scan heads



SC2000

- Scan control for 2-axis scanners
- On-board memory for Stand-Alone operation
- High-speed sync I/O ports for integration
- Visual Basic and LabView support



Additional Software (Included with WinMCL+ when applicable)

- Grid Correction - For all scan heads
- Post Grid - For HPLK heads

A World of Enabling Technologies

Bringing Your Advanced Manufacturing Applications to Life

Enabling Technology

As one of fourteen product brands that comprise GSI Group, General Scanning deliver enabling technology that brings advanced applications to life in the medical, semiconductor, electronics and industrial markets.

General Scanning is the world's leading optical scanner company with offices in major industrial centers around the globe.

To learn more about General Scanning products, visit www.gsig.com/scanners for all the details, or call one of our regional offices-

Americas: +1-978-439-5511

Japan: +81-3-5714-0380

Europe: +49-89-31707-0

To learn more about GSI Group, visit our corporate website: www.gsig.com

Headquarters:

GSI Group

39 Manning Rd. Billerica, MA. USA 01821

Tel: 1-800-342-3757 or 1-978-439-5511

www.gsig.com