



MOVING LIGHT, YEARS AHEAD.™

Optical Scanning Components

- TECHNOLOGY
- PERFORMANCE
- QUALITY
- VALUE
- RANGE OF PRODUCTS
- APPLICATIONS EXPERTISE



www.cambridgetechnology.com

CAMBRIDGE TECHNOLOGY

Moving Light, Years Ahead.



Cambridge Technology Galvanometers

Cambridge Technology provides the market's broadest range of galvanometer options to meet the specific needs of your application. We manufacture the world's largest and the world's smallest galvos as well as a large number of sizes in between. We offer a variety of rotor architectures, position detector and servo technologies, mirror, and controller technologies allowing you to pick your galvanometer scanning price / performance point with razor sharp precision. Our knowledgeable and experienced sales team stands ready to assist you in finding the optimum configuration for your application.



Our award winning 62xxH line of galvanometers cost-effectively provides extraordinary performance in a wide range of industrial, biomedical, display, and semiconductor applications. Our patented optical position detector set new standards for accuracy, stability and repeatability when it was introduced several years ago. It remains the gold standard in cost-effective performance to this day. Suitable for steering beam diameters from <3mm to over 100mm, and with over a half million in operation today, the 62xxH line of galvanometers is the ideal solution for the majority of applications.

Our 83xxK family of galvanometers is our next step up in positional stability. Created in response to emerging requirements for "affordable stability", the 83xxK provides 1/3 the thermal drift of the 62xxH family, and half the dither. This performance is nearly equal to what you would find with high-end digital encoder galvanometers, but at analog galvo prices. The 83xxK family, for beam diameters ranging from <3mm through 100mm, is ideal for demanding yet cost-sensitive applications such as PV scribing, deep engraving, wafer marking, and additive manufacturing.



Recommended Galvos by Aperture

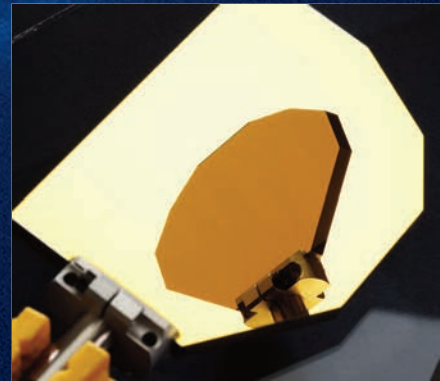
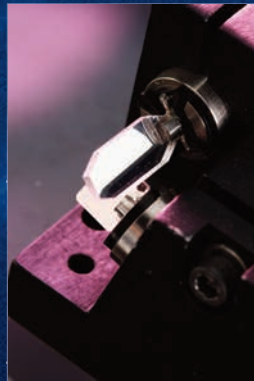
		3mm	4mm	5mm	6mm	7mm	8mm	9mm	10mm	12mm	15mm	20mm	25mm	27mm	30mm	50mm	75mm	>75mm
MOVING MAGNET	6200H/8300K																	
	6210H/8310K																	
	6215H/8315K																	
	6220H/8320K																	
	VM2500+																	
	6231H/8331K																	
	6230H/8330K																	
	6240H/8340K																	
	6880																	
	MPM20K/D																	
MOVING COIL	MPM30K/D																	
	6260H/8360K																	
	6450																	
	6650																	
	6900																	
	6400																	

The exact pairing of galvo to mirror depends primarily on performance requirements, mirror substrate material, and cost considerations



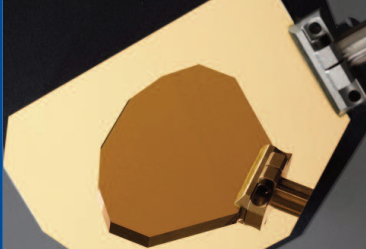
Moving Light, Years Ahead.™

From the day we invented galvanometer scanning over 40 years ago to the present times, Cambridge Technology has been perfecting the state-of-the-art in scanning technology, always staying one generation ahead of market requirements. Whether your primary need is speed, stability, cost, reliability, size, precision, quality, or performance, Cambridge Technology can provide a scanning solution optimized to your specific application.



With step times as fast as 100 μsec and galvo RMS frequencies up to 2kHz (up to 12kHz with our resonant scanners), we design and manufacture products for every application – from the smallest medical hand piece scanner to the largest scanner used in airborne LIDAR applications. You'll find Cambridge Technology products in a wide variety of industries and applications, including:

- **Materials Processing** – High speed laser marking, engraving, coding, drilling, welding, micromachining, cutting
- **Semiconductor Metrology and Processing** – Mask and wafer inspection, memory repair, resistor trimming, via drilling
- **Medical Diagnostics and Treatment** – Ophthalmology, OCT, aesthetic laser treatments, vision correction, digital radiography
- **Biomedical Systems** – Scanning microscopes, fluorescence imaging, DNA analysis, microarray scanners, capillary electrophoresis
- **Laser Projection** – Image projection, CAD/CAM projection, laser entertainment, information displays
- **Imaging and Printing** – 3D imaging, high resolution printing



MOVING LIGHT, YEARS AHEAD.™

125 Middlesex Turnpike • Bedford, MA 01730
P: (781) 266-5700

www.cambridgetechnology.com

Contact Cambridge Technology to learn more about our comprehensive line of products.



Components



2-Axis
Scan Heads



Scan Control



3-Axis
Scanning Systems



Lightning II Digital
Scanning Platform

