



New Product Release

General Scanning Introduces the MPower Scanner Motor Design Strategy for 15mm to 30mm Mirror Applications

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July 11, 2006 Billerica, MA. General Scanning, inventor of the optical scanner, introduces the MPower Scanner motor design strategy for unsurpassed performance in beam steering and raster scanning applications. The strategy is a three-step process that integrates the mirror, mount and motor for optimal inertial balance. The process starts with mirror selection based on operating wavelength, power, and beam diameter/spot size. Next, the optimal mirror mount configuration is determined for multiple mirror orientations and easiest field service. Finally, this mirror-mount configuration is paired to the optimal motor based on overall design goals.

Treated as a system, the final MPower motor configuration enables maximum operating efficiency and power transfer to the load. Heat build-up and other effects are minimized. The highest performance and the highest bandwidth are achieved without tweaking or iterative procedures.

High Performance Laser Quality Mirrors

MPower motor configuration begins with the component that is closest to the application, the mirror. Considerations such as wavelength, power, beam diameter and spot size will dictate the best mirror for the application. Low inertia is also essential for beam-steering mirrors to attain the highest accelerations, while high stiffness is needed to achieve adequate servo bandwidth. General Scanning offers a complete line of optimized mirror designs in a clear aperture range of 4mm to 50mm, including Beryllium and Silicon-Carbide mirror for the highest stiffness-to-inertia ratio.

Innovative Mirror Mounting Designs

Once the mirror has been selected, mounting options are considered: special mirror orientation, replacement in the field, etc. General Scanning has developed several innovative mounting designs, including direct mounting to the rotor shaft, sleeve-mount design, the patent-pending tapered-mount design, and an integrated mirror-mount design are available for the best balance of low inertia and high mechanical stiffness.

Optimized Motor Designs

The last aspect of the MPower Motor strategy is the motor itself. The power transfer path in an optical scanner motor flows from the motor's stator to the rotor (Motor Efficiency) and from rotor to the load (Inertia Matching & mounting scheme). Heat dissipation is another consideration. Heat must be conducted to the case of the motor so it can be

dissipated before the motor is overheated and damaged. 4th-generation coil winding and forming techniques address these issues and provide the best balance of torque and response-time.

Contact the company for pricing and delivery.

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