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## MM3000

### Newport MM3000 Motion Controller Offers Enhanced Feature Set and Backward Compatibility

Motion Master 3000 (MM3000), a powerful, standalone motion controller/driver with enhanced user-friendliness and backward compatible software and hardware drivers for Newport's extensive family of motorized stages. The MM3000 improves overall positioning performance with features like linear error and backlash compensation for better repeatability, closed-loop micro-stepping and automatic motor power cutoff on error.

The table top or rack mountable controller/driver is based on Newport's advanced PC-compatible MM2000 controller expansion card and includes enhanced software, an extended feature set and increased driver power to improve system performance. The MM3000 is ideal for use in test and measurement, automated optical alignment, laser micro-ablation, scanning microscopy, wafer inspection, micro-probing and other applications that require a point-to-point motion controller with the ability to handle complex multi-axis tasks.

The four-axis motion controller controls any combination of DC and stepper motors. The drivers can power servo motors from .1 to 10 amps or drive stepper motors up to 100x micro-step resolution. It offers several features designed to make operation easy including large easy-to-read alphanumeric front panel LED displays with a wide viewing angle and separate JOG, RESET and HOME buttons dedicated to each axis. From the front panel, users can execute motion programs stored in non-volatile memory, initiate manual jogs and automatic moves, perform home searches, configure axis operating parameters and perform diagnostic tests.

System configuration is especially simple when the MM3000 is combined with any of the broad line of Newport's precision motion mechanics. By selecting factory preset parameters, first time users can literally be up and running in minutes. Complex motion sequence programming can be done using the Motion Master command set which consists of over 100 two-letter mnemonic commands.

For added convenience, options include a hand-held key pad for local motion programming without front panel displays or computer interfacing and a 4-axis joystick for manual control of speed and direction. A standard 10-bit, 8 channel A/D interface provides easy plug-in attachment for the joystick as well as external analog signal processing. A 4-channel, 8-bit D/A interface option is also available.

Security options include the ability to software disable the front panel or key pad. Additionally, the key pad is removable and the MM3000 can be purchased without front panel displays and manual controls.

All Motion Master 3000 operating and programming features can be accessed remotely via personal computer through standard RS-232C and IEEE-488 communications interfaces. The MM3000 makes communications management easy by automatically sensing and reading all active data ports.

The MM3000 will be available in production quantities in September 1995. Customers may order now. Prices begin at \$3,599.

Established in 1969, Newport Corp. (NASDAQ:NEWP), Irvine, Calif., is a leading global manufacturer and distributor of precision equipment for scientists and engineers who develop and apply technology in lasers and optics. With its precision positioning products and technical expertise, the company also serves such high-technology industries as semiconductor manufacturing, telecommunications and analytical instrumentation. Newport is certified compliant to the ISO-9002 quality system standard by the British



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