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PRESS RELEASE

Ultra-Precise Positioning System for Nanotechnology

File: PI_PicoCube.jpg

Ultra-high-precision nanopositioning systems of the PicoCube® series are ideally suited for nanotechnology applications. Highest accuracy P-363 piezo positioning stages together with the low-noise E-536 controller offer a unique combination for sub-atomic precision and high dynamic performance. Nano-imprint lithography, scanning microscopy and biotechnology profit from the extremely high resolution of 0.05 nm over travel ranges of 5 µm per axis. The reference-class PicoCube® controller from PI (Physik Instrumente) supports two- and three-axis P-363 piezo stages with 50 W peak power per channel for fast scanning and positioning.

Applications requiring closed-loop control benefit from the P-363's high accuracy capacitive position sensors and the E-536's fast servo-loop. In addition to analog control, the PicoCube® controller can be commanded digitally over an RS-232 or IEEE 488 interface using the optional E-516 computer interface and display module. With that module's high-end 20-bit D/A converter, full picometer-range resolution of the stages is also accessible.

PI, a global market leader in the field of micro- and nanopositioning technology, has been developing and manufacturing standard, custom and OEM products with piezoelectric and motor drives for over 35 years. In addition to its three manufacturing centers in Germany, PI is present worldwide with eight subsidiaries and total staff of more than 400.

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