



## PRESS RELEASE

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### The New H-811 6-Axis Hexapod from PI

#### PRODUCT OVERVIEW

- Smallest Hexapod with vacuum option
- Travel ranges to 34 mm / 42°
- Load capacity to 5kg
- Actuator resolution 40nm
- Minimum incremental motion to 0.2µm
- Repeatability to ±0.1µm
- Includes integrated scan algorithms for fibre optic alignment
- Velocity to 10mm/s
- Vacuum-compatible version available
- Sophisticated controller using vector algorithms, virtual pivot point
- Extensive software support



#### REFERENCE-CLASS 6-AXIS POSITIONING SYSTEM

- Parallel-kinematic design for six degrees of freedom making it significantly more compact and stiff than serial-kinematic systems
- Higher dynamic range
- No moved cables
- Higher reliability
- Reduced friction
- Vacuum-compatible version to 10<sup>-6</sup> hPa available

#### DIRECT DRIVE WITH BRUSHLESS DC MOTORS (BLDC) AND LONG-LIFE BALL SCREWS

- High precision
- High velocity
- Long lifetime

#### POWERFUL DIGITAL CONTROLLER, OPEN SOFTWARE ARCHITECTURE

- User-defined, stable pivot point
- Software-selectable
- Positions commanded in Cartesian coordinates
- Macro programming
- Open source LabVIEW driver set
- Work space simulation software
- Virtual Hexapod machine software
- H-811.xx1 includes C-887.11, 6D vector motion controller plus 2 additional servo axes.

#### OPTIONS

- Analogue interfaces/photometer cards for visible light (F-206.VVU) or the infrared light range (F-206.iiU)
- F-206.NCU fast piezo nano-alignment system for alignment with nanometre precision
- Collision avoidance software (external obstacles).
- H-811.xx2 includes C-887.21 compact 6D vector motion controller

**FIELDS OF APPLICATION**

- Research
- Industry
- Standard and vacuum environments
- Micromanipulation
- Laser and optics alignment
- Biotechnology
- Tool control

For data sheets and more information on the H-811 or other hexapods from PI, contact **Warsash Scientific** on +61 2 9319 0122 or [sales@warsash.com.au](mailto:sales@warsash.com.au).