



New 6-Axis Servo Motor Controller

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## PI PRESS RELEASE

### Compact 6-Axis Motion Controller for High Precision Positioning Applications in Industry and Research

*PI's new cost-efficient servo motor controller drives 6 and 4 axis motion systems.*

October 2017, Auburn, MA – Precision positioning systems industry leader PI (Physik Instrumente) has released a new 6-axis servo motor controller – the C-884.6DC. Most modern precision motion systems are driven by servo motors, because they provide high torque, fast acceleration, smooth motion with a wide dynamic speed range, and fast start stop performance.

#### **Versatile, Compact Motion Controller**

PI's compact C-884 DC motion controller can run brushless servo motors and traditional DC motors with closed loop feedback provided by incremental encoders and absolute encoders (BiSS protocol). USB, TCP/IP and RS-232 interfaces are standard for command communication. Additional interfaces such as programmable analog and digital I/O lines, an SPI display port and joystick port are also included.

The dual-core architecture provides for increased performance and flexibility by separating command processing and position servo control functions.

#### **Features and Benefits**

- Cost efficient 6-Axis / 4-Axis PID precision servo motor controller
- Position feedback: Incremental and absolute-measuring encoders (no referencing)
- Motor types: Brushless servo motors and traditional DC motors
- Trapezoidal velocity profile
- Point-to-point motion, vector motion, user-definable trajectories
- Powerful Python macro command language, nonvolatile storage for stand-alone operation
- Data recorder for detailed motion system analysis
- ID chip detection for fast start-up
- Extensive software support, e.g., for LabVIEW, MATLAB, C, C++, C#, VB.NET, Python

## **Specifications, Datasheet, More Information >**

[http://www.pi-usa.us/products/Motor\\_Controllers/Motor\\_Controller\\_Precision\\_Positioner.php#C884](http://www.pi-usa.us/products/Motor_Controllers/Motor_Controller_Precision_Positioner.php#C884)

## **Standard and Custom**

PI has in-house engineered solutions with over 4 decades of experience working with customers to provide products that meet application demands, and can quickly modify existing product designs or provide a fully customized OEM part to fit the exact requirements of the application.

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## **About PI**

PI is a leading manufacturer of air bearing stages, piezoelectric solutions, precision motion control equipment, and hexapod parallel-kinematics for semiconductor applications, photonics, bio-nano-technology, and medical engineering. PI has been developing and manufacturing standard & custom precision products with piezoceramic and electromagnetic drives for 4 decades. The company has been ISO 9001 certified since 1994 and provides innovative, high-quality solutions for OEM and research. The PI group employs more than 1,000 people worldwide in 15 subsidiaries and R&D / engineering centers on 3 continents.

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