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New Controller - MC-ArchimedesLT.03.Ultra

Multi-channels high-speed controller for closed-loop scanner control

➡ Features

- Capacitive sensing: Sub-nm displacement resolution | Tunable analog bandwidth
- High-speed Data acquisition: 50 kSa/s sampling rate | Synchronous multi-channel sampling
- Real-time communication: SPI communication between master and slave | 50 kSa/s stable data transmission | EtherCAT/ EtherNET/ USB3.0
- Closed-loop control: Sub-nm resolution at ultra-high speed | Synchronous multi-channel closed-loop control

➡ Interface & Functions

Communications

- * EtherCAT
- * EtherNET
- * USB 3.0

Drive terminals

- * Analog in
- * Analog out
- * Trigger in
- * Trigger out
- * Voltage Output

Sensing terminals

- * Sensor input
- * Tuning Knob
- * Analog out



Figure.1 Closed- loop scanner controller - MC-ArchimedesLT.03.Ultra.

Working together with Multifields® closed-loop scanner , each of three channels maintains synchronous and individual closed-loop control with sub-nm resolution.

Motion Controller - MC-ArchimedesLT.03

3-channels controller designed for low temperature piezoelectric scanning motion units



MC-ArchimedesLT.03

- 3-Channels scanning motion control output
- Compatible with all low temperature Scanning Stages of MultiFields
- LabVIEW Sub VI control program is provided to support users' independent use
- USB / TCP/IP computer remote control

Optional Versions ⇄	MC-ArchimedesLT.03
Compatible positioner	Scanning Stages
Size	19" / 3U
Work voltage & power	220 VAC & 60 W
Communication interface	USB & TCP/IP
Analog input	-10 V ~ + 10V
Output channels	3 channels
Max output voltage	-150 V ~ +150 V
Drive frequency range	Max. 1kHz
Amplifier resolution	3 mV
Connectors	3 channels, BNC
Input resistance	10 kOhm

For detail drawing and 3D model please contact us.