

# OASIS-4i PCI-based Four Axis Automation Controller



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## **Universal**

- ◆ **Works with all major brands of stepper-based stages and focus drives, including Prior, Ludl, and Märzhäuser**
- ◆ Fully replaces external controller
- ◆ Four axis design for X/Y stage, Z focus, and 4<sup>th</sup> axis (e.g., filter wheel)
- ◆ Control stage / focus drives from various manufacturers using the same controller hardware and identical software API

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## **Ergonomic**

- ◆ **No external boxes or power supplies needed—the board does it all**
- ◆ Fits inside PC box for clean, integrated look
- ◆ Motor power taken directly from PC power supply

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## **High Performance**

- ◆ **PCI 2.2 interface for fastest possible communication**
- ◆ PCI data transfer rate is over 9,000 times faster than RS-232
- ◆ Never again worry about bottlenecks due to slow, unreliable serial interfaces

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## **Reliable Motion Control**

- ◆ **Smooth, fast motion with linear, S-curve, or user acceleration profiles**
- ◆ Microstepping resolutions up to 50,000 steps per rev
- ◆ Simultaneous 4-axis moves
- ◆ User-defined positive and negative soft limits per axis
- ◆ Backlash correction, user-selectable speeds, axis drive reversal

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## **Compatible**

- ◆ **Easy plug-and-play installation**
- ◆ Configuration Wizard for quick and simple setup
- ◆ Drivers for Windows® 95/98/Me, Windows NT4, Windows 2000, and Windows XP
- ◆ Driver for Scope-Pro™ included

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## **Automatic Focus**

- ◆ **Fast, accurate autofocus using optional OASIS-AF module**
- ◆ Plug-in daughter board for standard (NTSC / PAL) video processing
- ◆ Advanced real-time image processing including two-phase thresholding, area and chord length measurements

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## **Excellent Software**

- ◆ **Complete, high-level software library for quick and easy interfacing**
- ◆ Optional ActiveX control kit for system control, software joysticks, and scan pattern generation
- ◆ Utility applications for system setup and test included

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## **Complete Solution**

- ◆ **Trackball and joystick control options**
  - ◆ Cable sets for all major stage types
  - ◆ Shutter controller option for up to 4 separate shutters
  - ◆ Up to 4 general-purpose digital I/O ports as standard on main board
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