

OASIS-4i PCI-based Four Axis Automation Controller



Universal	<ul style="list-style-type: none">◆ 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 4th axis (e.g., filter wheel)◆ Control stage / focus drives from various manufacturers using the same controller hardware and identical software API
Ergonomic	<ul style="list-style-type: none">◆ 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
High Performance	<ul style="list-style-type: none">◆ 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
Reliable Motion Control	<ul style="list-style-type: none">◆ 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
Compatible	<ul style="list-style-type: none">◆ 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
Automatic Focus	<ul style="list-style-type: none">◆ 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
Excellent Software	<ul style="list-style-type: none">◆ 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
Complete Solution	<ul style="list-style-type: none">◆ 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

