Welcome to the online documentation for Applied Scientific Instrumentation. Legacy documentation is available in PDF form, but is no longer being updated. The wiki contents are more comprehensive, searchable, and cross-referenced. To download a collection of pages for offline reference use the "Export to PDF" link on the floating toolbar to the right.

If you find any errors or would appreciate specific additions please contact us. Editing is currently restricted to ASI staff; there is a page about getting started creating/editing pages for their reference.

Common Pages		
ASI Software	Command Quick Start	List of Commands
MS2000 Controller	TG1000 Controller	CRISP Autofocus
Filter Wheels	Tube Lenses	Leadscrew Pitch Options

Safety Information
- Atmospheric Specifications for ASI Tiger Controllers
- Safety Instructions
- Safety Notices

Products
- c60slider (Filter Slider)
- Custom Optics
- diSPIM
- FTP
- FW-1000: Filter Wheel
- Hardware
- MPPI
- MS2000, MFC2000, and RM2000 Controller
- Piezo Systems
- RAMM, MIM and VTS Portal
- Serial Commands
- Software
- TG-1000/Tiger Controller
- Tracking & Stabilization
- XY Stage
- Z-Drive and Focus Stage

Manuals
- ASI BPU Back Pressure Unit Operating Instructions
- ASI CRISP Control
- ASIs Drive Electronics(ADEPT) for 3rd Party Piezo Actuators
- Assembly Instructions for the RAMM
- CRISP : Continuous Autofocus System
- CRISP Ninja (Standalone CRISP GUI)
- DCMS Instruction Manual
- Detailed Pictorial MS-2000 Cable Connection Instructions

- Epi-Illumination Options and Laser Coupling
- FTP Controller
- FTP-2000 Setup & Alignment
- FW-1000 Filter Wheel Manual
- Heidenhain, Renishaw and MicroE XY Linear Encoder Installation
- Installing Inserts Into an ASI XY Stage
- Low Level Command Set
- LX2 Standalone Operation
- MicroMirror Drive Card User Guide
- MIM, RAMM and VTS-2100 Systems Instruction Manual
- MIMPH-MPIP Kit
- MPPI Kit
- MPPI-3 Pressure Injector
- MS2000, MFC2000, and RM2000 OPERATION
- Nikon FN1 Installation Instructions for ASI FTP-2100-XYZLE System
- Objective Turret & Slider Operation
- Optical and Mechanical Alignment of Epi-widefield and objective-TIRF on RAMM/MIM
- Optomechanical alignment of transillumination condenser
- Phototrack Control Panel
- PhotoTrack Instruction Manual
- Piezo-Z Top-Plate Installation and Handling
- Quick Start on Serial Commands
- Solenoid Lock Insert (I-3020-MLLAC)
- TG-1000 and MS-2000's Instruction Set Differences
- TG-1000 General Information
- TG-1000 Phototargeting
- TGADEPT & ADEPT: Drive Electronics for Piezo Top-Plate
- TGDAC4 / TGGALVO (4 Channel DAC card)
- TGLED and LLED-xxx-yz User Guide
- TGPMT / PMT-200
- Tiger Piezo DAC Card
- Tiger Programmable Logic Card (TGPLC)
- Tiger Tunable Lens Card (TGTLC)
- TIRF Install and Alignment
- Video AUTO-FOCUS
- Video Auto-Focus Card: Standalone Operation Manual
- Zeiss AxioExaminer FTP-2100 installation

Technical Notes

- Adding RS232 Connector to Tiger Controller
- Adjusting LS50 Crossed Roller Rail Bearing Preload
- Basic CRISP alignment for OEM systems
- C-60 Slider Cover Instructions
- Camera Post Mount Kit Setup

- Changing Piezo Drive Card's Fast Slow Compensation
- Changing the Joypod header in a RM-2000
- Changing Z Linear Encoder Headers on the MS-2000
- Comparison of ASI's Closed-loop DC Servomotor Stages and Control Electronics with Competing Products
- Connection differences for Mad City Piezo to Adept Piezo upgrades
- CRISP Error Calculation Algorithm
- Error Codes for MS2000 and TG1000 Diagnostics
- Flashing Firmware
- Four-Axis Joystick and Wheel Operation
- FW-1000 move times
- FW-1000 Optical Encoder Adjustment
- How to Reorient a FW-1000 Connector.
- How to Swap ADEPT(Piezo Drive cards) in a TG-1000 Controller
- I-3020 MLLAC
- Improving Piezo based Stages/Actuators Lifetime and Reliability
- Infinity Microscope Basics
- Inserting Pipette into Pipette Holder
- Installing and Configuring Linear Encoder Buffer Card on Tiger/TG-1000
- Joystick Connector Check
- Joystick lubrication instructions
- Lead Screw Pitch Options for ASI XY Stages: Speed, Resolution, and Repeatability
- Micro-Manager 1.4 and Filter Wheel
- Mintron HDMI Color Camera Startup Settings
- Mounting FW-1000s on RAMMs for large size cameras
- MS-2000 Controller Optimal Alignment Procedures
- Olympus SZ61 to VTS-2000 Installation Note
- Phototrack Manual Quad Setup Procedure
- Phototrack Tracking Theory
- Proper Termination for ASIs Autofocus Card
- Quick Start on Serial Commands
- Remote Refocus Microscopes
- Removing the Optical Tubes from the RAMM
- Removing the RF(capacitor) modification
- Repairing the FW-1000-4-40mm Filter Wheel Encoder Head
- Repeatability Performance of ASI Stages
- Replacing LED boards in ASIs LED Illuminator(MIM-LED-LAMP)
- Replacing the 5Volt power supply on TG-8 and TG-16 controllers
- Replacing the filter on the MPPI-3
- Resetting the Pulse Duration knob on MPPI
- Resolution Limits of Optical Microscopes and Related Requirements for Mechanical Stages
- RS-232 Communication
- SLAVE_F_TO_Z Module Operation (FTP firmware)
- Slow Speed Considerations

- [Stage Accuracy and Settling Time for ASI Stages](#)
- [Swapping Adept Piezo Boards in MS-2000 and RM-2000 controllers](#)
- [Swapping Lids on the MS-2000](#)
- [TG-1000 and MS-2000's Instruction Set Differences](#)
- [TG-1000 Controller Troubleshoot](#)
- [TN150: Removing the Red Shipping Bracket from the RAMM](#)
- [Trouble Shooting ASI Z-axis drives](#)
- [Tuning Your 40 TPI Lead screw Stage for Small Moves](#)
- [Two-axis Control with Command Knob](#)
- [Using ASI Console to query PZINFO](#)
- [Wishbone/Low Level Commands for TG1000](#)
- [ZF LOCK (FTP firmware) module Operation](#)

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