

RM-2000 Rack Mount Stage Controller



Features

- 2U 19" Rack Mount Control Unit: 22.8D x 48.3W x 8.1H cm (9" x 19" x 3.2")
- 100 MHz Microcontroller for Faster Command Processing and Servo Control
- Closed-Loop DC Servo Control of up to Four Motorized Axes
- 0-10 Vdc DAC Output for Additional Analog Control
- Firmware Upgradeable via Serial Connection
- Remembers Last Position on Power Up
- LCD Display Shows Axes Coordinates and Status
- USB or RS-232 Serial Control with Rates to 115200 Baud
- "Zero", "@", and "Home" Buttons on Joystick
- Left- or Right-Hand Joystick Unit

Options Supported

- Z-Drives, with Clutch Switch
- Dual Filterwheel Control
- Dual Shutter Control
- Piezo Z-axis Control
- Linear Encoders (XYZ)
- Hardware Video Autofocus
- Raster and Serpentine Scanning Routines with TTL Synchronization
- Leica Smart Move™ Digital Potentiometers for XY Motion Control
- TTL Control of Moves to Previously Stored Locations
- Multi-output Hardware Sequencer Functions



We Create Solutions

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Specifications

Digital Servo Loop Time	1 millisecond per Axis	
Digital-Closed-Loop Speed Dynamic Range	> 40 dB	
Motor Type	Brushed DC Servo Motors	
Maximum Motor Current	1.5 Amp	
Motor Voltage	6 - 24 Vdc	
Encoder Options	Internal Rotary or External Linear Encoders Supported	
Number of Axes	Up to four Motor Axes, plus DAC Output Channel	
Manual Controls	XY Joystick, Control Wheel, Zero, @, and Home Buttons, Filterwheel Advance to Next, Shutter Toggle, Controller Reset	
Display	4-line by 40-character LCD Display shows Axes Positions and Status	
Computer Interface	RS-232 Serial and USB	
Interface Baud Rate	9600, 19200, 115200	
Filterwheel Switching Time	< 40 ms	
Shutter Switching Time	≤ 8 ms	
Power Requirements	Voltage	100 – 240 Vac 50/60 Hz
	Current	2.3 Amp (max)



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