

RM-2000 Rack Mount Stage Controller



Features

- 2U 19" Rack Mount Control Unit: 22.8 cm D x 48.3 cm W x 8.1 cm H (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 upgradable 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 filter wheel 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
- Bare boards and custom firmware are available for OEM applications

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				
Filter Wheel Switching Time	< 40 ms				
Shutter Switching Time	≤ 8 ms				
Power Requirements	<table border="1"> <tbody> <tr> <td>Voltage</td> <td>100 – 240 Vac 50/60 Hz</td> </tr> <tr> <td>Current</td> <td>2.3 Amp (max)</td> </tr> </tbody> </table>	Voltage	100 – 240 Vac 50/60 Hz	Current	2.3 Amp (max)
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