

Product Specification

1. Product Overview

1.1 Product Name: Servo Pan-Tilt Controller

1.2 Product Model: RU-MOCTL-2A-MIL

1.3 Product Description:

Our company has independently developed a general-purpose servo pan-tilt controller, achieving fully domestic components. It is compact, lightweight, easy to use, and powerful, with integrated common control algorithms.

- High performance, small size, lightweight, and low power consumption
- Fully domestic components, independently controllable
- Operates stably within the -40°C~65°C range
- Compatible with a wide variety of sensors and servo driver types
- Built-in configuration host application with visualized parameters, enabling rapid pan-tilt commissioning
- Open communication protocol settings — users can define their own communication data.
- Built-in multiple motion control algorithms (data processing, motion decoupling, motion compensation, closed-loop control, etc.)

2. Technical Specifications

2.1 Parameter Table

Item	Specification	Remarks
Power Supply	12~60VDC	
Dimensions	105mm*80mm*25mm	
System	Real-time system	
Interfaces	RS485*2	2.5Mbps
	RS422*2	2.5Mbps
	RS232	
	CAN*2	
	SPI*3	
	100M Ethernet *2	
	SD card slot	
	Input*8	5V/24V
	Output*6	24V
Host Application	Built-in web-based configuration host application	
	External serial-port host application	
Functions	Closed-loop speed control	
	Closed-loop position control	
	Sector scanning	
	Volume scanning	
	Conical scanning	
	Step motion	
	Guided tracking	
	Program tracking	

	Preset positions	
	Dual-motor synchronization	
	Dual-motor anti-backlash	
	Attitude stabilization	
Built-in Algorithms	Data processing	
	Motion decoupling	
	Motion compensation	
	Closed-loop control	

3. Appearance

