

# Product Specifications

## 1. Product Overview

- 1.1 Product Name: STOM Servo Pan-Tilt System
- 1.2 Product Model: RU-PTU-20-050-25-S
- 1.3 Product Description:

Based on the guiding position provided by the signal of the beacon, the servo turntable system performs data decomposition and processing. Meanwhile, it conducts comprehensive analysis and calculation based on airborne inertial navigation data and data collected by various sensors of the servo turntable system, controlling the servo drive unit to drive the antenna to automatically reach the target position in azimuth and pitch axes. Ultimately, it realizes the antenna's acquisition and tracking functions for communication targets.

### Product Features:

- ✓ The servo tracking device can carry components provided by the user, and complete circular scanning, sector scanning, and conical scanning functions in the azimuth and pitch planes.
- ✓ Equipped with Dual Beidou B1/GPS, capable of uploading positioning and orientation module data to achieve automatic positioning and attitude determination, and zero-finding function.
- ✓ Equipped with inertial navigation tracking function, capable of maintaining the stability of the antenna's given azimuth and pitch pointing, and inertial navigation parameters can be corrected via Beidou information.
- ✓ Equipped with external guidance follow-up search and tracking functions.
- ✓ Equipped with real-time display and reporting functions for azimuth and pitch angle information.
- ✓ Equipped with real-time turntable status monitoring and safety protection functions.

Application scenarios: This product can be applied in vehicle-mounted and marine radars. It supports various loading methods and can be used with parabolic antennas and flat-panel antennas, featuring flexible deployment.

## 2. Technical Parameters

### 2.1 Parameter Table

Technical Indicators			
Category	Item	Parameters	Remarks
Performance Parameters	Positioning Accuracy	±0.5°(RMS)	
	Maximum Load	20KG	
	Rated Rotational Speed	Azimuth: 120°/s; Pitch: 120°/s	
	Rotational Acceleration	Azimuth: 200°/s <sup>2</sup> ; Pitch: 200°/s <sup>2</sup>	
	Rotational Range	Azimuth: 0°~360°; Pitch: -20°~60°	
Mechanical Parameters	Tracking Capability	Angular velocity ≥ 120°/s, Angular acceleration ≥ 200°/s <sup>2</sup>	
	Weight	25KG	
Electrical Parameters	Dimensions	520*520*364 (L*W*H*, mm)	
	Rated Supply Voltage	DC24v	
Environmental Parameters	Rated Power	200W	
	Operating Temperature	-40°~+85°	
	Storage Temperature	-50°~+85°	
	Protection Class	IP65	
	Wind Resistance Class	Level 8 Wind	

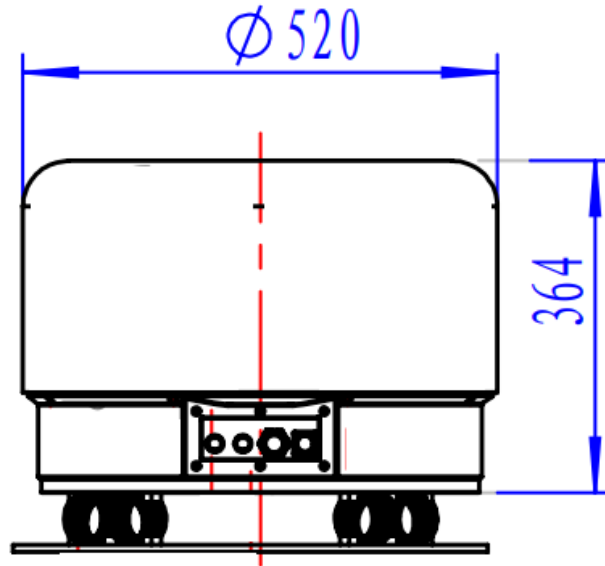
### 2.2 Interface Information Table

Category	Interface ID	Cores Qty.	Interface Definition	Remarks
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Power Interface	PW01	4	DC24V/250W	
Communication Interface	CM01	8	RJ45/1000M	
	CM02	1	Fiber	

### 3. Overall Dimensions

#### 3.1 Dimension Drawing



#### 3.2 Appearance Photos

