

Product Specifications

1. Product Overview

- 1.1 Product Name: Single-Axis Search and Tracking Servo Pan-Tilt System
- 1.2 Product Model: RU-PTU-S-50-005-25-R
- 1.3 Product Description:

This product is used to carry and drive search and tracking radars. According to external servo control information, it controls the horizontal rotation of the antenna to achieve accurate, rapid, and reliable search and tracking capabilities of the radar for targets.

Product Features:

- ✓ Supports circular scanning, sector scanning, and tracking sector scanning of the radar, and provides power supply and signal transmission paths for the upper and lower equipment of the servo unit.
- ✓ Has the function of controlling the azimuth to point to the target airspace according to control commands.
- ✓ Has the function of real-time angle information display and reporting.
- ✓ Has turntable real-time status monitoring and safety protection functions.

2. Technical Parameters

2.1 Parameter Table

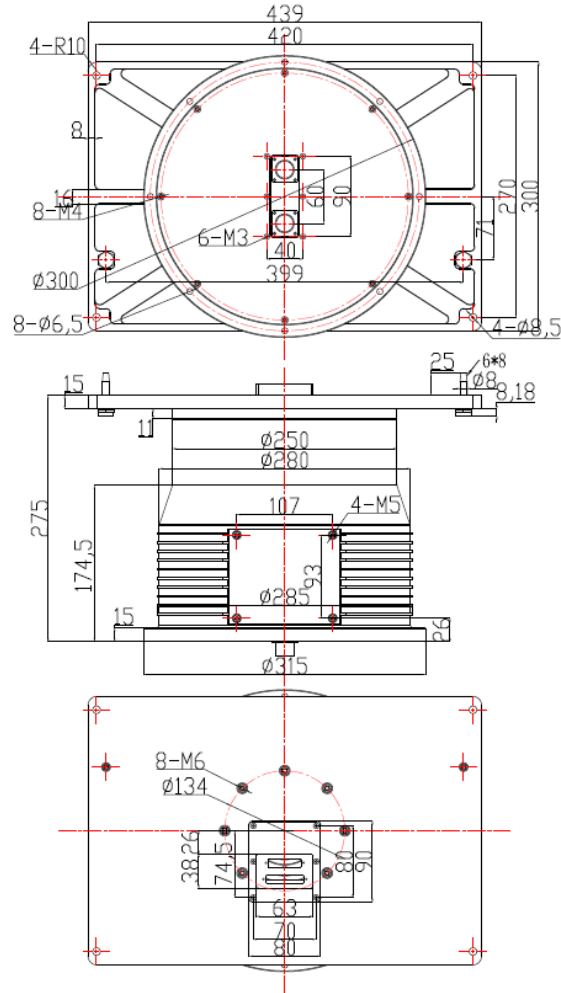
Technical Indicators			
Category	Item	Parameters	Remarks
Performance Parameters	Positioning Accuracy	±0.05°	
	Maximum Load	50KG	
	Rated Rotational Speed	Azimuth: 360°/s	
	Rotational Acceleration	Azimuth: 60°/s ²	
	Rotational Range	Azimuth: 0~360°	
Mechanical Parameters	Weight	25KG	
	Dimensions	440*300*275 (L*W*H*, mm)	
Electrical Parameters	Rated Supply Voltage	DC48v	
	Rated Power	500W	
Environmental Parameters	Operating Temperature	-40°~+85°	
	Storage Temperature	-60°~+85°	
	Protection Class	IP65	
	Wind Resistance Class	Level 6 Wind	

2.2 Interface Information Table

Category	Interface ID	Cores Qty.	Interface Definition	Remarks
Power Interface	PW01	2	DC48v/10A	
Communication Interface	CM01	24	RJ45/100M, RS422, 2 channels of RS232	

3. Overall Dimensions

3.1 Dimension Drawing



3.2 Appearance Photos



4. Product Connection Schematic Diagram

