

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-80-005-25-R
- 1.3 Product Description:

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

Product Features:

- ✓ Capable of realizing circular scanning, sector scanning, and tracking sector scanning of the radar, and providing power supply and signal transmission channels for the upper and lower equipment of the servo unit.
- ✓ Capable of controlling the azimuth to point to the target airspace according to control commands.
- ✓ Equipped with real-time angle information display and reporting functions.
- ✓ Equipped with real-time turntable status monitoring and safety protection functions.
- ✓

2. Technical Parameters

2.1 Parameter Table

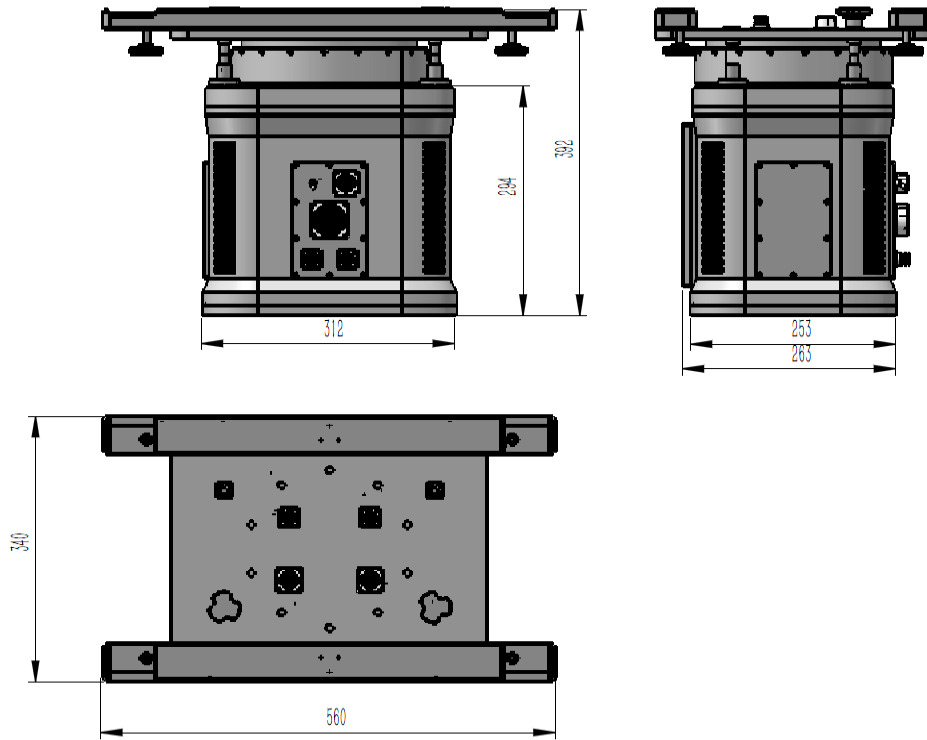
Technical Indicators			
Category	Item	Parameters	Remarks
Performance Parameters	Positioning Accuracy	±0.05°	
	Maximum Load	80KG	
	Rated Rotational Speed	Azimuth: 120°/s	
	Rotational Acceleration	Azimuth: 60°/s ²	
	Rotational Range	Azimuth: 0~360°	
Mechanical Parameters	Weight	25KG	
	Dimensions	560*260*392 (L*W*H*, mm)	
Electrical Parameters	Rated Supply Voltage	AC220v	
	Rated Power	300W	
Environmental Parameters	Operating Temperature	-40°~+85°	
	Storage Temperature	-60°~+85°	
	Protection Class	IP65	
	Wind Resistance Class	Level 6 Wind	

2.2 Interface Information Table

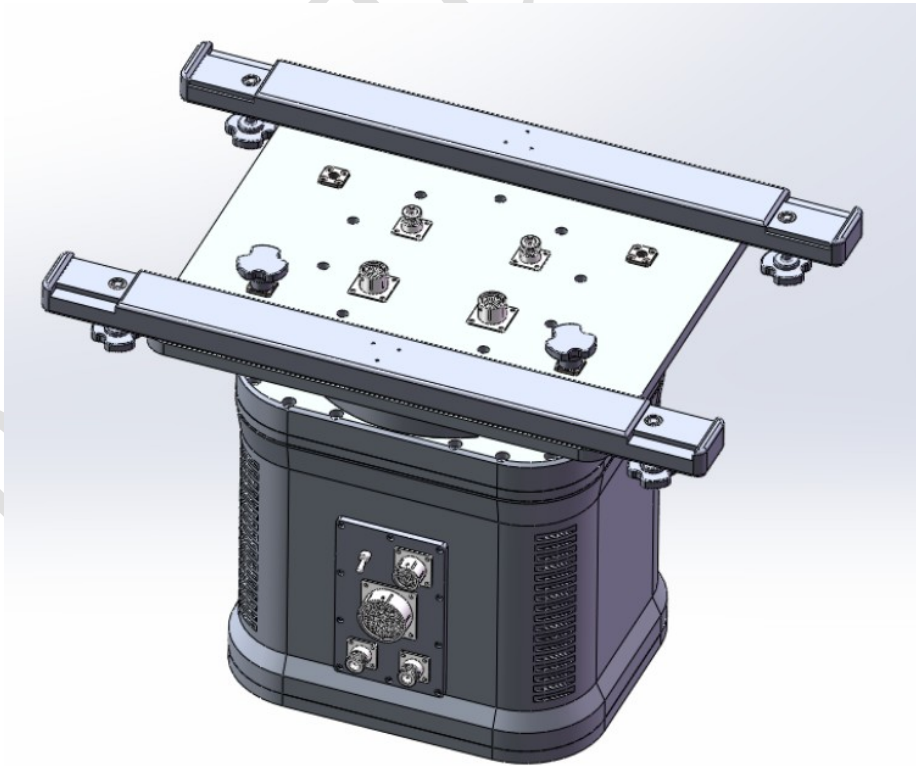
Category	Interface ID	Cores Qty.	Interface Definition	Remarks
Power Interface	PW01	3	AC220V/300W	
Communication Interface	CM01	8	RS422	
	CM02	8	RJ45/100M Ethernet	

3. Overall Dimensions

3.1 Dimension Drawing



3.2 Appearance Photos



4. Product Connection Schematic Diagram

