Product Specifications

1. Product Overview

1.1 Product Name: Optical Tracking Servo Pan-Tilt System

1.2 Product Model: RU-PTU-45-001-120-O

1.3 Product Description:

This product receives control commands sent by the radar array via the RS422 serial port, controls the turntable's rotation, stop, homing, positioning, speed control, etc., and outputs azimuth angle information, turntable status information, and heartbeat information to the radar array through the RS422 serial port.

Product Features:

- ✓ Capable of realizing circular scanning, sector scanning, and tracking 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.

Application scenarios: This turntable can be applied in optical tracking radars. It supports various loading methods and can be used with multiple types of payloads. The turntable is lightweight and flexible to set up.

2. Technical Parameters

2.1 Parameter Table

Technical Indicators			
Category	Item	Parameters	Remarks
Performance Parameters	Positioning Accuracy	±0.01°	
	Maximum Load	45KG	
	Rated Rotational Speed	Azimuth: 60°/s; Pitch: 60°/s	
	Rotational Acceleration	Azimuth: 60°/s²; Pitch: 60°/s²	
	Rotational Range	Azimuth: ±150°; Pitch: -10°~60°	
Mechanical Parameters	Weight	120KG	
	Dimensions	680*680*880 (L*W*H*, mm)	
Electrical Parameters	Rated Supply Voltage	AC220v	
	Rated Power	400W	
Environmental Parameters	Operating Temperature	-40°~+85°	
	Storage Temperature	-50°~+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	XS01	4	AC220v/50A	
Communication Interface	XS02	8	RS422	

3. Product Drawing & Photo