

Product Specifications

1. Product Overview

1.1 Product Name: Portable Tracking Radar Servo Pan-Tilt System

1.2 Product Model: RU-PTU-35-005-30-PT

1.3 Product Description:

This product is used to carry and drive the portable tracking radar. Based on external servo control information or ephemeris data, combined with sensor data such as inertial navigation combination and level instrument, it controls the horizontal (azimuth) and vertical (pitch) rotation of the antenna, realizing the radar's accurate, rapid, and reliable target tracking capability.

Product Features:

- ✓ Capable of receiving ephemeris information (or servo control information) sent from external sources and controlling the antenna pointing.
- ✓ Capable of moving in azimuth and pitch directions according to control commands to point to the target airspace.
- ✓ Tracking mode: Equipped with program tracking and other functions.
- ✓ Capable of reporting north angle, positioning, and turntable main disk inclination angles (roll angle, pitch angle).
- ✓ Capable of real-time display and reporting of azimuth and pitch angle information.
- ✓ Equipped with real-time turntable status monitoring and safety protection functions.
- ✓ Capable of self-positioning and timing and synchronizing with other servo control systems for satellite tracking.
- ✓ Equipped with quick deployment and retrieval capabilities, detachable and movable by two people.

2. Technical Parameters

2.1 Parameter Table

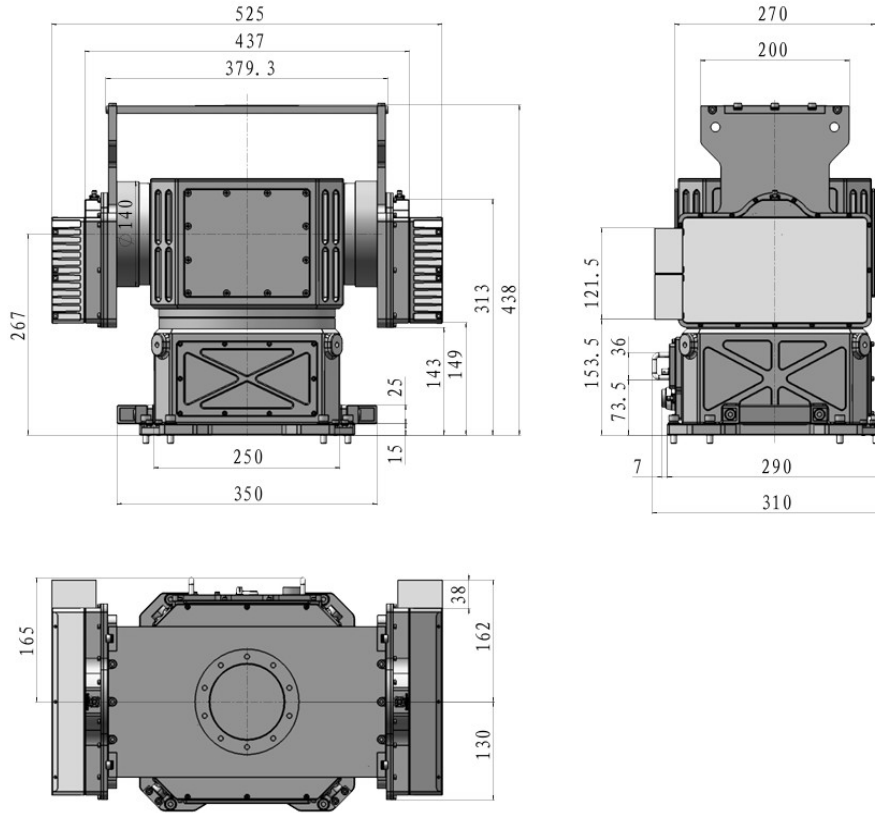
| Technical Indicators | | | |
|--------------------------|-------------------------|--|---------|
| Category | Item | Parameters | Remarks |
| Performance Parameters | Positioning Accuracy | ±0.05° | |
| | Maximum Load | 35KG | |
| | Rated Rotational Speed | Azimuth: 50°/s; Pitch: 50°/s | |
| | Rotational Acceleration | Azimuth: 120°/s ² ; Pitch: 90°/s ² | |
| | Rotational Range | Azimuth: ±180°; Pitch: 0°~90° | |
| Mechanical Parameters | Weight | 30KG | |
| | Dimensions | 525*310*438 (L*W*H*, mm) | |
| Electrical Parameters | Rated Supply Voltage | AC220v | |
| | Rated Power | 200W | |
| 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/50W | |
| | PW02 | 2 | DC28V/1.3KW | |
| Communication Interface | CM01 | 1 | RJ45/1000M | |

3. Overall Dimensions

3.1 Dimension Drawing



3.2 Appearance Photos

