

Product Specifications

1. Product Overview

- 1.1 Product Name: Two-Axis Stabilized Platform
- 1.2 Product Model: RU-STP-15-030-07-SH
- 1.3 Product Description:

Mobile carriers may experience changes in attitude angles due to their own motion or external interference. Precision loads installed on the carrier, which have specific requirements for spatial pointing, struggle to operate normally in such environments. For example, when the mobile carrier is a ship, the ship will sway significantly under the impact of ocean waves during navigation, rendering precision loads such as satellite communication antennas on the ship inoperable. Therefore, a device to stabilize precision loads is required, and the Two-Axis Stabilized Platform has been developed accordingly.

Product Features:

- ✓ Based on the carrier's attitude information, it invokes position control and disturbance compensation control functions to regulate the rotation of the load's roll axis and pitch axis, thereby achieving the function of keeping the antenna horizontal.
- ✓ Equipped with real-time turntable status monitoring and safety protection functions.

Application Scenarios: This stabilized platform can be applied in marine satellite communication. It is compatible with flat-panel antennas, featuring a lightweight turntable and flexible deployment.

2. Technical Parameters

2.1 Parameter Table

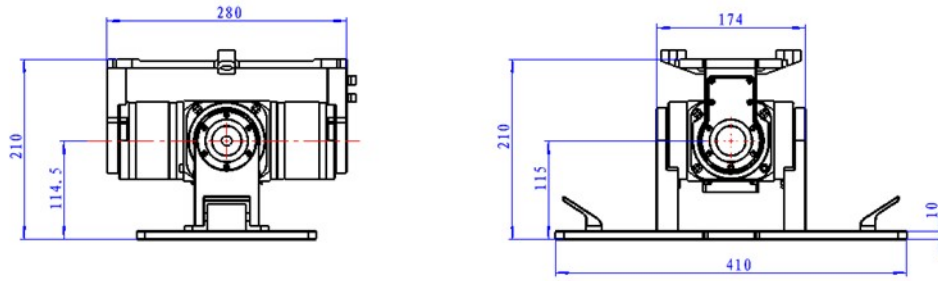
Technical Indicators			
Category	Item	Parameters	Remarks
Performance Parameters	Stabilization Accuracy	0.3° (RMS)	
	Maximum Load	15KG	
	Sway Range	±30°	
	Swing Period	Roll and pitch axes swing ±25° respectively with a period of 5s	Time to rotate from +25° to -25°
Mechanical Parameters	Weight	7.2KG	
	Dimensions	280 * 180 * 210 (L*W*H*, mm)	
Electrical Parameters	Rated Supply Voltage	DC48v	
	Rated Power	200W	
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	PW01	4	DC48V/100W	

3. Overall Dimensions

3.1 Dimension Drawing



3.2 Appearance Photos

