

Satellite Controller Introduction

Single-speed Integrated Antenna Control System

Integrate Antenna Control Unit, Drive Unit and Beacon Tracking Receiver Unit;

- Real-time accurate display of antenna azimuth, elevation, polarization angle and AGC voltage;
- Preset and modify complete parameter information of 10 satellites, which is convenient for one-key guidance;
- With constellation guidance, automatic tracking, scanning, position guidance, manual operation and other functions;
- Large, high-resolution industrial-grade touch color screen;
- New system menu design and operation experience;
- Provides comprehensive prompts, alarm messages and mechanisms.



- Structural form: single-speed integrated;
- Applicable antenna: 3.0meters to 7.3 meters;
- Operation mode: manual, automatic;
- Working temperature:-10℃ ~40℃;
- Standard configuration: antenna control unit, antenna drive unit, beacon tracking receiving unit, photoelectric encoder, flame retardant cable and connectors;
- Optional: remote control system.

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Main functions:

- RF signal, angle signal, antenna limit signal collection.
- Display of antenna, control mode, beacon signal voltage, antenna position and other information.
- System control in automatic and manual operation mode.
- Operation of functions such as antenna satellite position guidance, automatic tracking, position guidance and system settings.



Function Description

- **Sat Guide:** Guide the antenna to the target position according to the user's selection of satellites.
- **Scan/Track:** Automatic tracking is to automatically control the rotation of the antenna in all directions according to the strength of the satellite beacon, so that the antenna can locate at the position with the strongest signal; Scanning is based on the range of azimuth and elevation set by the user to scan the whole range according to the set step distance and mode within this range, and finds the maximum signal point within this range.
- **Manual:** Through the button operation in each direction to control the movement of antenna in all directions.
- **Position guide:** Lead antenna to the specified position based on the selected offset direction and the input angle value.
- **System setting:** Set the encoder calibration, local longitude and latitude, tracking parameters, software limit, satellite information, system time, password management and other functions.

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System specifications

Item	Description
Applicable antenna	2.4m, 3.7m, 4.5m, 6.2m, 7.3m
Structure type	Integrated
Drive speed	Constant speed
System power consumption	3000W
Angle display range	0~360°
Angle display resolution	0.01°
Encoder accuracy	AZ/ EL axis: 0.04° (optional: 0.01°) POL axis: 0.08° (optional: 0.04°)
Tracking accuracy	1/10 reception beamwidth
Preset satellite	10 satellites
Remote interface	RJ-45 network
Working environment	Working temperature: 0℃~40℃; cable working temperature: -10℃~60℃;(optional: low-temperature cable: -30℃~90℃)
Power supply	AC 380V±10% 50/60Hz
Dimension	19inch/3U
Safety	1.Soft and hard limits provide guarantee for the safe operation of the antenna;2.The cables are all flame retardant series cables -10℃~50℃; (optional low temperature cables -30℃~90℃)