

AR-300-2W-03

U-shaped dual-axis satellite tracking turntable

This U-shaped dual-axis satellite tracking gimbal comprises an azimuth axis and an elevation axis, offering two degrees of freedom of motion, and is used to drive a payload (such as a camera) to track satellites.



Product Features

- U-shaped dual-axis structure
- Azimuth rotation of $\pm 180^\circ$
- Elevation range: -10° to 90°
- Pointing accuracy: $\pm 10''$
- Maximum load: 25 kg
- Dual mechanical and electronic limit switches

Suitable scenarios

Suitable for use in the satellite communications and telemetry sectors, either as ground-based satellite tracking equipment or as an antenna pointing servo system.

Technical Specifications

Parameter categories	Parameter items	Parameter values
Accuracy Performance	Tracking/pointing accuracy	$\pm 10''$ (3σ)
Dynamic Performance	Maximum angular velocity	$\geq 30^\circ/\text{s}$
	Maximum angular acceleration	$\geq 30^\circ/\text{s}^2$
Range of Motion	Azimuth/elevation range	Azimuth: -180° to $+180^\circ$ Elevation: -10° to $+90^\circ$
Mechanical Specifications	Load capacity	25 kg
	Table diameter/dimensions	300 mm
Environmental Protection	Protection rating	IP54
	Operating temperature	-20°C to $+55^\circ\text{C}$
Power and Communications	Power supply requirements	AC 220 V / 50 Hz
	Control interface	Ethernet / Rs422