

AR-300-2PW

Servo turntable

This servo turntable comprises a high-precision mechanical turntable, a BeiDou/GPS positioning and orientation module, and a servo control system. It is designed to provide continuous 360° horizontal rotation and high-precision positioning and pointing within a pitch range of -10° to 85° .



Product Features

- Lightweight yet heavy-duty, with a load capacity of ≥ 150 kg
- Wide-range speed control, with an angular velocity of $0-50^{\circ}/s$
- Dual-axis stabilisation, resistant to roll and pitch disturbances
- Sub-degree accuracy, with an azimuth error of $\leq 0.1^{\circ}$
- Built-in BeiDou/GPS for autonomous positioning and north alignment
- Millisecond-level response, with a data refresh rate of ≤ 10 ms

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	Angular Positioning Accuracy	$\leq 0.1^{\circ}$
	Tracking/Pointing Accuracy	$\leq 0.1^{\circ}$
Dynamic Performance	Maximum Angular Velocity	$50^{\circ}/s$
	Maximum Angular Acceleration	$\geq 60^{\circ}/s^2$
	Range of Motion	Azimuth: 360° continuous Elevation: -10° to 85°
Mechanical Specifications	Load Capacity	$\geq 150kg$
	Table Diameter/Dimensions	300mm
Power and Communications	Control Interface	RS-232/422/485