

AR-600-2W

Dual-axis tracking turntable

This dual-axis tracking turntable is a UO-type two-dimensional turntable comprising azimuth and elevation axes, designed for the precise pointing and continuous tracking of space targets such as satellites.



Product Features

- Dual-axis UO-type structure
- Azimuth angle of rotation: $\pm 280^\circ$
- Elevation angle of rotation: $\pm 90^\circ$
- Positioning accuracy: $\pm 3''$
- Tracking speed: $\geq 1^\circ/\text{s}$
- Open-loop accuracy: $< 1''/60 \text{ min}$

Suitable scenarios

Suitable for use in the satellite communications, data reception and radio astronomy sectors, serving as precision tracking and servo equipment for ground stations to track satellites in orbit.

Technical Specifications

Parameter categories	Parameter items	Parameter values
Accuracy Performance	Angular position accuracy	$\pm 3''$
	Angular position repeatability	$\pm 2''$
	Tracking/pointing accuracy	Single-axis < 5" (for spatial targets) Error < 1" within 60 minutes (open-loop)
	Rate stability	Better than $\pm 1\%$
Dynamic Performance	Maximum angular velocity	Yaw $\geq 10^\circ/\text{s}$ Pitch $\geq 5^\circ/\text{s}$
	Range of azimuth/elevation movement	Azimuth: $\pm 280^\circ$ Elevation: $\pm 90^\circ$
Range of Motion	Load capacity	150 kg
Mechanical Specifications	Work surface diameter/dimensions	600 mm
	Protection rating	Ip65
Environmental Protection	Operating temperature	-20°C to +55°C
Power and Communications	Power supply requirements	AC 220V $\pm 10\%$, 50Hz, $\leq 2\text{kW}$
	Control interface	Ethernet/RS422, supports closed-loop position and speed control