

PT-065-2W

Direct-drive dual-axis tracking turntable

This product is a high-precision servo-tracked turntable, comprising azimuth and elevation drive mechanisms, an absolute encoder and a control system. As a mounting platform, it provides stable and rapid pointing and tracking movements for systems such as optoelectronic detection and radar-linked systems.



Product Features

- High-precision servo tracking
- Wide azimuth range of $\pm 170^\circ$
- Elevation range: -10° to $+90^\circ$
- Load capacity: >65 kg
- Maximum azimuth speed: $180^\circ/\text{s}$
- Tracking accuracy: 0.1 mrad

Suitable scenarios

Suitable for the low-altitude security sector, it can serve as a tracking and motion control unit for systems such as radar linkage, spectrum direction-finding, optoelectronic detection and countermeasures.

Technical Specifications

Parameter categories	Parameter items	Parameter values
Accuracy Performance	Angular position accuracy	0.05° (≈0.87 mrad)
	Angular position repeatability	±0.02° (≈0.35 mrad)
	Tracking/pointing accuracy	0.1 mrad (RMS)
	Rate stability	1%
Dynamic Performance	Maximum angular velocity	Azimuth: 180°/s Elevation: 60°/s
	Maximum angular acceleration	Azimuth: 120°/s² Elevation: 60°/s²
Range of Motion	Azimuth/elevation range of motion	Azimuth: ±170° Elevation: -10° to +90°
Mechanical Specifications	Load capacity	>65 kg
Environmental Protection	Protection rating	Ip54
	Operating temperature	-20°C to +55°C
Power and Communication	Power supply requirements	220V AC / 48V DC
	Control interface	Ethernet / RS422 / digital interface for photoelectric tracking