

PT-030-2W

Direct-drive dual-axis tracking turntable

This direct-drive dual-axis tracking turntable comprises an azimuth axis and an elevation axis; when used in conjunction with the user's software, it can track space targets such as satellites.



Product Features

- Weight ≤ 80 kg, load capacity ≥ 30 kg
- Azimuth rotation $\pm 358^\circ$, elevation -5 to 95°
- Both axes feature a locking mechanism
- Absolute encoder with a resolution of 3 arcseconds
- High open-loop tracking accuracy (10 seconds $< 0.5''$)
- Maximum tracking speed: azimuth $\geq 10^\circ/\text{s}$

Suitable scenarios

Suitable for use in the aerospace or astronomical observation sectors, for satellite tracking or stellar observation equipment.

Technical Specifications

Parameter categories	Parameter items	Parameter values
Accuracy Performance	Angular positioning accuracy	Single-axis open-loop tracking accuracy < 5" (approx. 0.0014°)
	Tracking/pointing accuracy	Open-loop tracking of a star: error < 0.5" within 10 seconds
Dynamic Performance	Maximum angular velocity	Azimuth $\geq 10^\circ/\text{s}$, elevation $\geq 4^\circ/\text{s}$
	Maximum angular acceleration	Azimuth $\geq 1^\circ/\text{s}^2$, elevation $\geq 1^\circ/\text{s}^2$
Range of Motion	Azimuth/elevation range of motion	Azimuth $\pm 358^\circ$, elevation -5° to 95°
Mechanical Specifications	Load capacity	≥ 30 kg
Environmental Protection	Protection rating	Ip66
	Operating temperature	-25°C to $+55^\circ\text{C}$