

PT-008-2W

Servo-controlled turntable

This servo-controlled tracking turntable comprises an azimuth-elevation turntable structure, a servo control system and an Ethernet communication interface. It is capable of continuous azimuth rotation and elevation movement, and provides high-precision target tracking and positioning capabilities.



Product Features

- Continuous rotation in all directions
- Pitch movement of $\pm 30^\circ$
- Wide speed range (0.01–60°/s)
- Control accuracy of 0.01°
- Tracking accuracy of 0.15 mrad
- Lightweight (≤ 5 kg) with high load capacity (≥ 8 kg)

Suitable scenarios

Suitable for industries such as unmanned systems, security surveillance and aerial surveying, and specifically for equipment requiring precise servo tracking, such as drone ground tracking stations, vehicle-mounted electro-optical pods and robotic vision guidance systems.

Technical Specifications

Parameter categories	Parameter items	Parameter values
Accuracy Performance	Angular position accuracy	0.01°
	Tracking/pointing accuracy	0.15 mrad (1 σ) (approx. 0.0086°)
	Rate stability	≤1%
Dynamic Performance	Maximum angular velocity	60°/s
	Maximum angular acceleration	≥60°/s ²
Range of Motion	Azimuth/elevation range	Azimuth: 0°–360° (continuous rotation) Elevation: -30° to +30°
Mechanical Specifications	Load capacity	≥8 kg
	Table diameter/dimensions	260 mm × 170 mm × 270 mm
Power and Communication	Power supply requirements	20–30 VDC, power consumption ≤60 W
	Control interface	Ethernet