



# MPS-100

## Motorized Pan&Tilt System

High Torque  
Ultra Performance  
Precise Positioning

MPS is a Pan&Tilt unit with Stabilization Feature that enables target tracking electro-optical payloads to perform precise positioning and repeating tasks perfectly.



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The purpose of the MPS Series Pan&Tilt Unit is to precisely position different sensor units. Up to 45 kg (with side mounts) of payload can be accommodated by it. With a small design and military-grade construction.

MPS Pan&Tilt units can withstand a wide range of challenging conditions. It provides integration to meet your stabilization needs. Expanded velocity control offers the MPT finer resolution of speed and acceleration control, ultimately improving tracking and scaling applications.

#### Technical Specifications

Payload Rated Load Torque (Elevation)	70 Nm
PowerConsumption Max (P&T move) / In-Rush / Standby	120 W / 40 W / 15 W
Operating Voltage Range	24-36 VDC
Azimuth(Pan) -> Range of Travel - Speed	n x 360° (Continuous Rotation) - 120 °/s
Elevation(Tilt) -> Range of Travel - Speed	180° (+90°/-90°) - 18 °/s
Minimum Incremental Move (Az and/or El)	0.005°/s
Encoder Type / Position Feedback	Absolute / 0.005°
Position Resolution	500 µrad (0.028°)
Construction	100% CNC Machined Materials (Al6000,SS)
Drive System	BLDC Motors
Exterior Finish	Powder Coat Black (Default), Special Finishes Available
Weight	8 kg -
Dimensions	300 x 355 x 210 mm
Operating Temperature	-35°C to +55°C
Storage Temperature	40°C to +60°C

Specifications are subject to change without any notice. | All tolerances are within ±10%.

#### Application Areas

- Surveillance and Security
- Radar Systems
- Land Weapons Systems
- Robotics

#### Qualifications

- MIL-STD-810G
- MIL-STD-461G
- IP67



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