



PAN TILT

TS-MPT T SERIES

The MPT-T Series Motorized Pan-Tilt Units by TRIYOSYS deliver exceptional performance for surveillance, monitoring, and targeting systems.

Designed with robust materials and advanced technology, the MPT-T Series ensures precision and reliability in even the most demanding environments.

FEATURES

- Robust and compact design.
- High torque and performance.
- Precise positioning.
- High duty cycles.
- Suitable for fixed and mobile environments.
- 100% CNC Machined from high strength 6000 series aluminium and stainless steel.



Payload Capacity
up to 45 kg



Rated Torque at Tilt Axis
64 Nm



Position Accuracy
0,02°



Position Repeatability
0,02°



Zero backlash

TECHNICAL DATA / TS-MPT-T SERIES

Product Code	TS-MPT-T-1	TS-MPT-T-2
Payload Capacity	30 kg	45 kg
Rated Torque at Tilt Axis	51 Nm	64 Nm
Power Consumption		
Max. Power Consumption	120 W	160 W
Standby Power Consumption	20 W	20 W
Operating Voltage Range *	20-32 V	20-32 V
Pan		
Range of travel *	n × 360° (Continuous Rotation)	n × 360° (Continuous Rotation)
Max. Speed	60°/s	60°/s
Min. Speed	0.005°/s	0.005°/s
Tilt		
Range of travel *	180° (+90°/-90°)	180° (+90°/-90°)
Max. Speed	60°/s	60°/s
Min. Speed	0.005°/s	0.005°/s
Position Accuracy and Repeatability		
Position Accuracy	0.02°	
Position Repeatability	0.02°	
Backlash	None	
Rotation Limits		
Software Limits	Available	
Encoder Type and Position Feedback		
Encoder Type *	Absolute Encoder	
Position Feedback	0.005°	
Operating Temperature		
Working Temperature	-32°C to +55°C	
Storage Temperature	-40°C to +60°C	
Drive Systems		
Drive System (Pan)	BLDC Motor	
Drive System (Tilt)	BLDC Motor	
Brake	Magnetic Brake	
Construction		
Exterior Finish	Powder Coat Black (Default), Special Finishes Available	
Weight	7.5 kg	10kg
Dimensions	272x201x135 mm	292x221x150
Payload Mounting Type	Top and Side Mount	
Ambient Conditions and EMI/EMC Compatibility		
Electromagnetic Compatibility	MIL-STD-461G (CE102, CS101, CS114, CS115, CS116, CS118, RE102 and RS103)	
Min. Operating and Storage Temperature	MIL-STD-810G, Method 502.6 Procedure II and Procedure I	
Max Operating and Storage Temperature	MIL-STD-810G, Method 501.6 Procedure II and Procedure I	
Thermal Shock	MIL-STD 810G, Method 503.6 Procedure I-C	
Moisture Resistance	MIL-STD 810G, Method 507.6 Procedure II	
Rain Resistance	MIL-STD-810G, Method 506.6 Procedure I	
Dust and Sand Resistance	MIL-STD-810G, Method 510.6 Procedure I and Procedure II	
Vibration Compatibility	MIL-STD-810G, Method 514.7 Procedure I	
Shock Compatibility	MIL-STD-810G Method 516.6 Procedure IV	
Icing and Freezing Rain Resistance	MIL-STD-810G, Method 521.3 Procedure I	
Protection / IP rating	IP67	

TECHNICAL DATA / TS-MPT-T SERIES

Control of Positioner Unit	
Command and Control	GUI-Joystick-Software
Protocol	TS-MPT Protocol and Pelco-D
Power Outputs to Payload *	
24 VDC - user on/off switchable	Optional
12 VDC - user on/off switchable	Optional
5 VDC - user on/off switchable	Optional
Instantly Monitoring	
Power On and Run Time Monitoring	Available
Voltage Monitoring	Available
Current Monitoring	Available
Communication Interfaces to Payload *	
Serial	RS232, RS422, RS485 (2 Channel Configurable)
TTL	1 Channel
IP	1 Channel Gigabit Ethernet
Communication Interfaces to Pantilt**	
Serial	RS232 or RS422/RS485
IP	Optional
Connectors *	
Main Connector	D38999/20WD35PN
Payload Connector	D38999/20WD35SN

* If you have other requirements or need further assistance, please reach out to us.

** Configuration is available for particular lines including RF, SDI, HD-SDI, Fiber, etc.

*** The specified values apply to top mount setups.

Please note: Accessories such as cables and power supplies are not included in the package.