

PAN TILT TS-MPT-U SERIES

It is designed for use in land and sea vehicles thanks to its fast movement and precise positioning capability. The torque and speed of selected variations can be changed according to the customer's requests.

Two things suffice to best explain this series; compactness and power. Its applications include fixed and mobile border surveillance, coastal surveillance, port and shipping control, customs and coastguard, vehicle mounted surveillance and maritime applications.

FEATURES

- Robust and compact design
- Long service life
- 100% CNC Machined from high strength 6000 series aluminium and stainless steel.



Payload Capacity up to 45 kg



Rated Torque at Tilt Axis 50 Nm



Position Accuracy 0,02°



Position Repeatability 0,02°



Zero backlash



TECHNICAL DATA / TS-MPT-U SERIES

Product Code	TS-MPT-U-1	TS-MPT-U-2
Payload Capacity	35 kg	45 kg
Rated Torque at Tilt Axis	30 Nm	50 Nm
	Power Consumption	
Max. Power Consumption	80 W	120 W
Standby Power Consumption	10 W	25 W
Heater Power	40 W	60 W
Operating Voltage Range *	18-32 V	44-52 V
	Pan	
Range of travel *	n × 360° (Continuous Rotation)	n × 360° (Continuous Rotation)
Max. Speed	30 °/s	60 °/s
Min. Speed	0.005°/s	0.005°/s
	Tilt	
Range of travel *	90° (+45°/-45°)	90° (+45°/-45°)
Max. Speed	24 °/s	60°/s
Min. Speed	0.005°/s	0.005°/s
	Position Accuracy and Repeatability	
Position Accuracy	0.02°	0.02°
Position Repeatability	0.02°	0.02°
Backlash	None	None
	Rotation Limits	
Software Limits	Available	Available
Mechanical Limits	Available at Tilt Axis	Available at Tilt Axis
	Encoder Type and Position Feedback	
Encoder Type *	Absolute Encoder	Absolute Encoder
Position Feedback	0.005°	0.005°
	Operating Temperature	
Working Temperature	-32°C to +55°C	-32°C to +55°C
Storage Temperature	-40°C to +60°C	-40°C to +60°C
	Drive Systems	
Drive System (Pan)	Stepper Motor	BLDC Motor
Drive System (Tilt)	Stepper Motor	BLDC Motor
Brake	Magnetic Brake	Magnetic Brake
	Construction	
Exterior Finish	Powder Coat Black (Default), Special Finishes Available	
Weight *** Dimensions ***	20.6 kg 487.5x540x170 mm	20.6 kg
	487.55540x170 mm Ambient Conditions and EMI/EMC Compatibility	487.5x540x170 mm
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-U SERIES

Control of Positioner Unit			
Command and Control	GUI-Joysitck-Software		
Protocol	TS-MPT Protocol and Pelco-D		
Power Outputs to Payload *			
24 VDC - user on/off switchable	Opti	onal	
12 VDC - user on/off switchable	Opti	onal	
5 VDC - user on/off switchable	Opti	onal	
Instantly Monitoring			
Power On and Run Time Monitoring	Avail	Available	
Voltage Monitoring	Available		
Current Monitoring	Avail	able	
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	D38999/20WD35PN	
Payload Connector	D38999/20WD35SN	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.

