

PT-U/US

Heavy Duty Pan Tilt Unit



PT-U/US Series

Heavy duty and high performance PT unit with U shape arm. Specially designed TCIDA Series, a great unit for vehicles and other demanding installations. PT-US Series include multiple level gyro-stabilization for critical image stabilization in vehicles or marine applications.

PT-U/US Series provide torque up to 45Nm. and including serial and network communication for control. Through the GUI user interface the system can be configured and managed efficiently.

A very robust unit manufactured in aluminum 6060 and stainless steel.

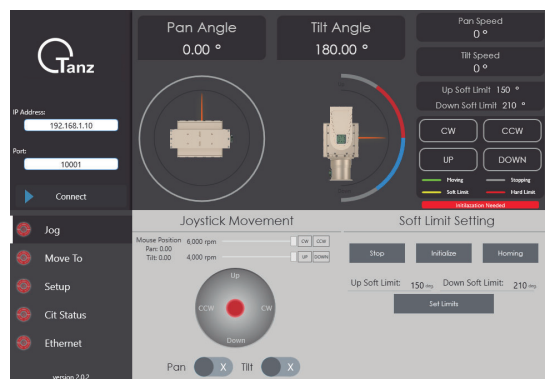
Model	PT-U/US A	PT-U/US B
Max. payload	35Kg.	45Kg.
Torque at tilt axis	30Nm.	50Nm.
Peak power demand	80W.	120W.
Standby power demand	10W.	25W.
Heater power	40W.	60W.
Working voltage range*	18-32v.	44-52v.
Azimuth travel*	n×360° (Continuous rotation)	n×360° (Continuous rotation)
Azimuth Max. speed	30°/s.	60°/s.
Azimuth minimum speed	0.005°/s.	0.005°/s.
Tilt travel*	+45°/-45°	+45°/-45°
Tilt Max. speed	24°/s.	60°/s.
Tilt minimum speed	0.005°/s.	0.005°/s.
Position accuracy	0.02°	0.02°
Position repeatability	0.02°	0.02°
Backlash	No	No
Rotation software limits	Available	Available
Rotation hardware limits	In tilt axis	In tilt axis
Encoder type	Absolute encoder	Absolute encoder
Encoder position resolution	0.005°	0.005°
Drive system (pan/tilt)	BLDC	BLDC
Brake	Magnetic brake	Magnetic brake
Serial communication	RS485	RS485
Serial baud-rate	2,400-115,200	2,400-115,200
Serial protocol	TZ protocol and Pelco D	TZ protocol and Pelco D
Network	Giga LAN	Giga LAN
Control interface	Yes	Yes

External finishes	Powder coating	Powder coating
Production material	Aluminum 6060 / Stainless steel	Aluminum 6060 / Stainless steel
Voltage/current network monitoring	Yes, through control software	Yes, through control software
System temp. network monitoring	Yes, through control software	Yes, through control software
Connectors	Military	Military
Weight	20.6Kg.	20.6Kg.
Dimensions	487.5x540x170mm.	487.5x540x170mm.
Waterproof	IP66 or IP67*	IP66 or IP67*
System working temperature	-32/55°C.	-32/55°C.
Options	Various working voltages Sand, Gray, Green, Black color Marine coating Gyro-stabilization (PT-US Series)	
Electromagnetic compatibility	MIL-STD-461G (CE102, CS101, CS114, CS115, CS116, CS118, RE102 and RS103)	
Min. operating / storage temperature	MIL-STD-810G, Method 502.6 Procedure II and Procedure I	
Max. operating / 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 resistance	MIL-STD-810G, Method 514.7 Procedure I	
Shock resistance	MIL-STD-810G, Method 516.6 Procedure IV	
Icing and freezing rain resistance	MIL-STD-810G, Method 521.3 Procedure I	

* Tanz Security reserves the right to change products or specifications without notice.

* IP67 nitrogen pressurized optional.

* Tanz Security brand and logo are registered trade marks.



Control and management interface.