

TIGER

Pan & System

The TIGER is a stable and sophisticated pedestal adapted to immobile vantage points and extreme weather conditions.

TTIGER is a single heavy-duty unit, capable of supporting payloads up to 150kg without losing precision and designed to be a true REAL-TIME long range observation system.



PAYLOAD
150 kg



POSITION ACCURACY
 $\pm 0.001^\circ$



SPEED
0.01 - 360 $^\circ$ /Sec



OPERATIONAL TEMPERATURE
-40 $^\circ$ C ~ +55 $^\circ$ C

| General Specifications

Type	U-Shape
Payload Type	Camera
Azimuth / Pan movement	Nx360° or up to 345° (no slip-ring)
Elevation / Tilt movement	Up to 360°
Self-Weight	~110 kg
Control mode	Speed / Position
Communication	Ethernet TCP / RS232 / RS422 / RS485
Environmental protection	IP65, Humidity, Temperatures & more...
Power consumption	48V & 8Amp
Max Payload (balanced)	150 kg
Max Acceleration	150 °/Sec ²
Speed (balanced)	0.01-360 °/Sec
Position Accuracy	±0.001°
Position Sensor Encoder	Absolute / Incremental
Resolution	0.000005° / 0.0013°

| Stabilization systems

Stabilization Accuracy	Payload dependent
Stabilization Sensor	IMU / FOG

| Tracker systems

GPS Stabilization by Datum point	Payload dependent
GPS Units	LLA/UTM



Contact us at:

CAPTURE SYSTEMS LTD,
Ravnitzky St.6, Petach Tikva, Israel
Phone: +972-3-3038108
Fax: +972-3-6200621
sales@capture-sys.com
www.capture-sys.com

| Environmental Specification

Storage Temperature	-40°C ~ +70°C
Operational Temperature	-40°C ~ +55°C
Humidity	+32°C to +55°C @ 95 ±4 %RH

| Salt Fog Exposure

Salt Solution Concentration	5±1 %
Salt Fog PH	6.5 to 7.2
Salt Fog Fallout Rate	1-3 ml/80cm ² /hr
Duration	48 hr
Temperature	+35°C ±2°C

| Salt Fog Drying Period

Temperature	+25°C ±10°C
Duration	48 hr
Humidity	<50 %RH

| Solar Radiation

Temperature	+32°C to +49°C
Max Intensity	1120 W/m ²
Cycles	3

| Blowing Dust

Wind Velocity	8.9 m/sec
Dust Concentration	10.6±7 g/m ²
Relative Humidity	<30 %
Temperature	TEST 1: 25 °C TEST 2: 70 °C

| Blowing Rain

Wind Velocity	18 m/sec
Rain Rate	>1.7 mm/min
Droplet Size Dia.	0.5 to 4.5 mm
Duration	30 min/face
No. of Faces	4

Pictures are for illustration purposes only.



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| Icing

Temperature	-10 °C
Ice Thickness	37 mm

| Vibration

Axes	3 (X, Y, Z)		
Vibration Level	X = 2.4 grms	Y = 1.3 grms	Z = 3.6 grms
Frequency Range	5 – 500 Hz		
Vibration Time per Axis	60 min		

| Blowing Sand

Wind Velocity	18 m/sec
Sand Concentration	1.1 ± 0.3 g/m ³
Humidity	<30 %RH
Temperature	+55 ± 2 °C
No. of Faces	1
Duration	90 min/face

| Mechanical Shock

Axes	3 (±X, ±Y, ±Z)
Shock Form	Saw-Tooth
Shocks per Axis	6 (3 each direction)
Pulse Duration	11 mSec
Total Shocks	18
Shock Amplitude	40 g

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| Stabilized Version

Stabilization Accuracy	±0.1 ° - ±1 ° (*payload & mechanics dependent)
Stabilization Sensor	<p>IMU:</p> <ul style="list-style-type: none"> - Gyro range: ±2,000°/Sec - Accelerometer range: ±16g - Magnetometer range: ±2.5Gauss <p>FOG:</p> <ul style="list-style-type: none"> - Gyro range: ±490°/Sec - Accelerometer range: ±10g

| Tracker Version

GPS Stabilization Accuracy	±0.1 ° - ±1 ° (*mechanics and antenna spread dependent)
GPS Sensor	<ul style="list-style-type: none"> - Updates Rate: 5Hz - Receiver Type: GNSS - Static Accuracy (Heading): 0.3° RMS - Static Accuracy (Pitch / Roll): 0.5° RMS - Dynamic Accuracy (Heading): 0.3° RMS - Dynamic Accuracy (Pitch / Roll): 0.1° RMS

| GUI Pannell

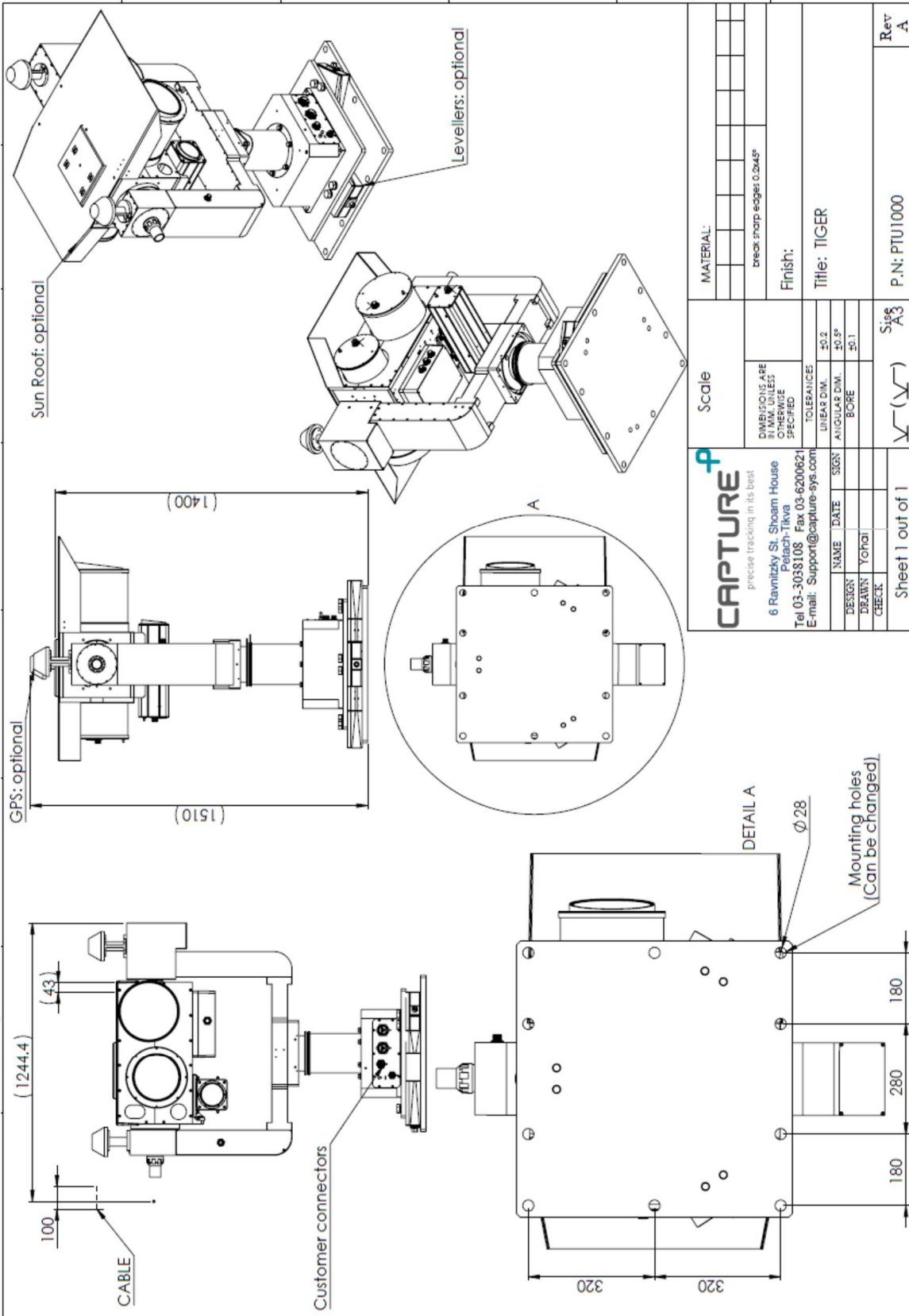
Parameter	Specification
Communication	Ethernet (TCP)
Operation mode	Manual / Stabilized / Tracker
Control mode	Speed / Position
Operation	Manual arrows controlled by user
Presets	Up to 15 saved points
Targets	Up to 15 saved GPS targets
Register Status	Online state of system registers
Software limit switches	User defined software limit switches for both axes
Homing	Homing position declaration
Scanning modes	Zigzag, Square and Snake
IP Setting	Ability changing system IP addresses & port



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| MICD



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