

# LEOPARD

## Pan & System

LEOPARD is a state of the art 3-in-1 unit for video and communication. Leopard is an evolution of the Caracal unit, providing a smart, compact solution that can support high weights.

The unit allows mounting day & night video cameras, satellite communication and ground antennas.

Built-in control electronics and software provides a precise, smooth motion at all speeds.



### PAYLOAD

Y(40), P(40), S(100) kg



### POSITION ACCURACY

$\pm 0.05^\circ$



### SPEED

0.01 - 20/40 °/Sec

## | General Specifications

Type	L-Shape
Payload Type	Antenna / Camera / Satellite
Azimuth / Pan movement	345°
Elevation / Tilt movement	Up to 360°
Self-Weight	~10.5 kg
Control mode	Speed / Position
Communication	Ethernet TCP / RS232
Environmental protection	IP65, Temperatures, Vibration, icing & more

Version Type	STANDARD	HIGH-PERFORMANCE
Power consumption	48V & 8Amp	48V & 8Amp
Max Payload (balanced)	Y(40), P(40), S(100) kg	Y(40), P(40), S(100) kg
Max Acceleration	100 °/Sec <sup>2</sup>	100 °/Sec <sup>2</sup>
Speed (balanced)	0.01-20 °/Sec	0.01-40 °/Sec
Position Accuracy	±0.05 °	±0.05 °
Position Sensor Encoder	Absolute	Absolute
Resolution	0.0001 °	0.0001 °

## | Stabilization systems

Version Type	STANDARD	HIGH-PERFORMANCE
Stabilization Accuracy	±1 °	±0.5 °
Stabilization Sensor	IMU / FOG	IMU / FOG

## | Tracker systems

Version Type	STANDARD	HIGH-PERFORMANCE
GPS Stabilization by Datum point	-	-
GPS Units	-	-



**Contact us at:**

CAPTURE SYSTEMS LTD,  
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## | 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 <sup>2</sup> /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 <sup>2</sup>
Cycles	3

## | Blowing Dust

Wind Velocity	8.9 m/sec
Dust Concentration	10.6±7 g/m <sup>2</sup>
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 <sup>3</sup>
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

## | Stabilized Version

Stabilization Accuracy	±0.5 ° (*payload & mechanics dependent)
Stabilization Sensor	IMU: - Gyro range: ±2,000°/Sec - Accelerometer range: ±16g - Magnetometer range: ±2.5Gauss

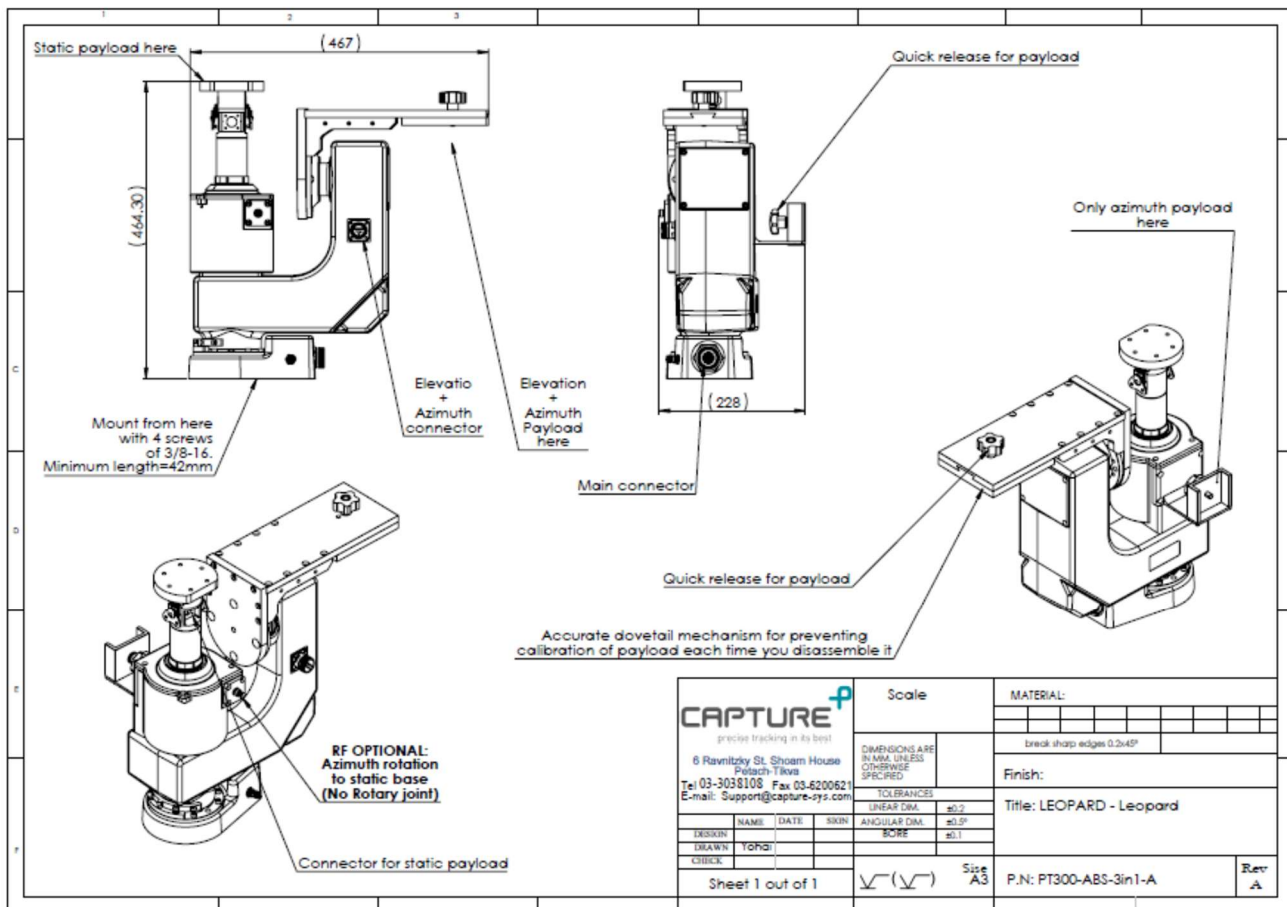


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## | GUI Pannell

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
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

## | MICD



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