

LEOPARD PAN & TILT SYSTEM

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



LEOPARD PAN & TILT SYSTEM, General Specification

Product Line: LEOPARD		
Type	L- Shape	
Payload Type	Antenna / Camera / Satellite	
Azimuth / PAN movement	345°	
Elevation / Tilt movement	can move up to 360°	
Self-Weight [kg]	~10.5	
Control mode	Speed / Position	
Communication	Ethernet TCP / RS232	
Environmental protection	IP65 , Temperatures, Vibration, icing & more	
Version Type	<u>Standard</u>	<u>High-Performance</u>
Power consumption [V] [A]	48V & 8Amp	48V & 8Amp
max Payload (balanced) [kg]	Y(40), P(40), S(100)	Y(40), P(40), S(100)
Max Acceleration [°/Sec ²]	100	100
Speed (balanced) [°/Sec]	0.01-20	0.01-40
Position Accuracy [°]	±0.05	±0.05
Position Sensor Encoder	Absolute	Absolute
Resolution [°]	0.0001°	0.0001°
Stabilization systems		
Stabilization Accuracy [°]	±1	±0.5
Stabilization Sensor	IMU / FOG	
Tracker systems		
GPS Stabilization by Datum point	-	-
GPS Units	-	

LEOPARD PAN & TILT SYSTEM, Environmental Specification

Storage Temperature [°C]	-40 ~ +70		
Operational Temperature [°C]	-40 ~ +55		
Humidity [°C @ %RH]	+32 to +55 @ 95±4		
Salt Fog Exposure			
Salt Solution Concentration [%]	5±1		
Salt Fog PH	6.5 to 7.2		
Salt Fog Fallout Rate [ml/80cm ² /hr]	1-3		
Duration [hr]	48		
Temperature [°C]	+35±2		
Salt Fog Drying Period			
Temperature [°C]	+25±10		
Duration [hr]	48		
Humidity [%RH]	<50		
Solar Radiation			
Temperature [°C]	+32 to +49		
Max Intensity [W/m ²]	1120		
Cycles	3		
Blowing Dust			
Wind Velocity [m/sec]	8.9		
Dust Concentration [g/m ²]	10.6±7		
Relative Humidity [%]	<30		
Temperature [°C] [*test 1 & test 2]	25	70	
Blowing Rain			
Wind Velocity [m/sec]	18		
Rain Rate [mm/min]	>1.7		
Droplet Size Dia. [mm]	0.5 to 4.5		
Duration [min/face]	30		
No. of Faces	4		
Vibration			
Axes	3 (X,Y,Z)		
Vibration Level [grms]	X=2.4	Y=1.3	Z=3.6
Frequency Range [Hz]	5-500		
Vibration Time per Axis [min]	60		

Icing	
Ice Thickness [mm]	Ice Thickness [mm]
Temperature [°C]	Temperature [°C]
Blowing Sand	
Wind Velocity [m/sec]	18
Sand Concentration [g/m ³]	1.1±0.3
Humidity [%RH]	<30
Temperature [°C]	+55±2
No. of Faces	1
Duration [min/face]	90
Mechanical Shock	
Axes	3 (±X, ±Y, ±Z)
Shock Form	Saw-Tooth
Shocks per Axis	6 (3 each direction)
Pulse Duration [mSec]	11
Total Shocks	18
Shock Amplitude [g]	40

LEOPARD PAN & TILT SYSTEM, Stabilized Version

Product Line: LYNX - Stabilized	
Stabilization Accuracy [°]	±0.5 (*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

LEOPARD PAN & TILT SYSTEM, GUI Pannell

Parameter	Specification	Notes
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	

LEOPARD PAN & TILT SYSTEM, MICD

