

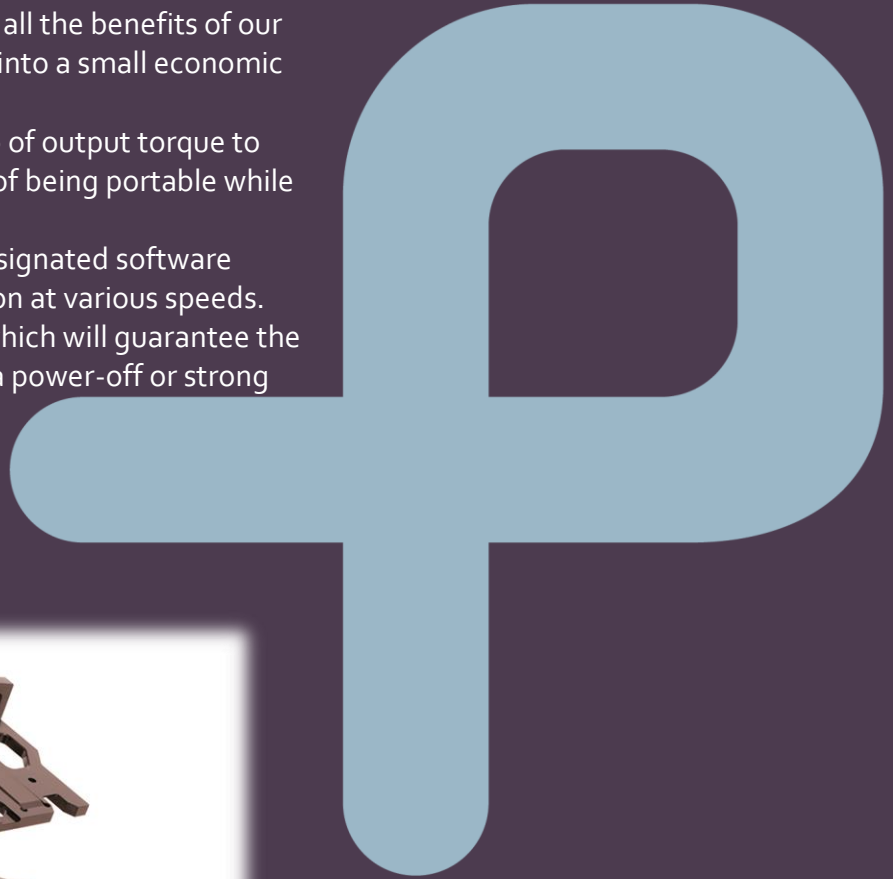
LYNX PAN & TILT SYSTEM

LYNX,

This small & robust pedestal packs all the benefits of our precision positioning mechanisms into a small economic package.

LYNX system introduces high ratio of output torque to self-weight, giving the advantage of being portable while keeping its robustness.

Built-in control electronics with designated software provides precise and smooth motion at various speeds. LYNX has a self-lock mechanism which will guarantee the pedestals position even in case of a power-off or strong winds.



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LYNX PAN & TILT SYSTEM, General Specification

Product Line: LYNX		
Type	L- Shape	
Payload Type	Antenna / Camera / Radar / Satellite	
Azimuth / Pan movement	Nx360° or up to 345°	
Elevation / Tilt movement	can move up to 360°	
Self-Weight [kg]	~10.5	
Control mode	Speed / Position	
Communication	Ethernet TCP / RS232 / RS422 / RS485	
Environmental protection	IP65 , Temperatures, Vibration, icing & more	
Version Type	<u>Standard</u>	<u>High-Performance</u>
Power consumption [V] [A]	24V & 4Amp	36V & 6Amp
max Payload (balanced) [kg]	40	25
Max Acceleration [°/Sec ²]	100	100
Speed (balanced) [°/Sec]	0.01-20	0.01-40
Position Accuracy [°]	±0.1	±0.01
Position Sensor Encoder	Incremental	Incremental
Resolution [°]	0.0007	0.000036
Stabilization systems		
Stabilization Accuracy [°]	±1	±0.5 / ±0.1
Stabilization Sensor	IMU / FOG	
Tracker systems		
GPS Stabilization by Datum point	±1	±0.5 / ±0.1
GPS Units	LLA / UTM	

LYNX 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

LYNX PAN & TILT SYSTEM, Stabilized Version

Product Line: LYNX - Stabilized	
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

LYNX PAN & TILT SYSTEM, Tracker Version

Product Line: LYNX - Tracker	
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

LYNX 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	
Targets	Up to 15 saved GPS targets	Tracker only
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	

LYNX PAN & TILT SYSTEM, MICD

