



CONTINUOUS ROTATION PAN & TILT

The Pathfinder is a state-of-the-art high torque continuous rotation in air positioner. It is designed for Ethernet communication using Helios protocol. It has been configured for pass through Ethernet communications and power to a second housing connector supplying power and communications for the convenience of mounting external hardware

- Ground Base, UAV Tracking Applications
- Air filled
- Continuous rotation
- ROS GUI controls
- **Contact ROS Sales for Availability**

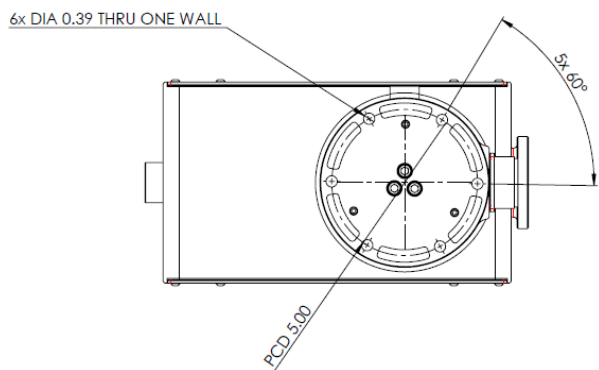
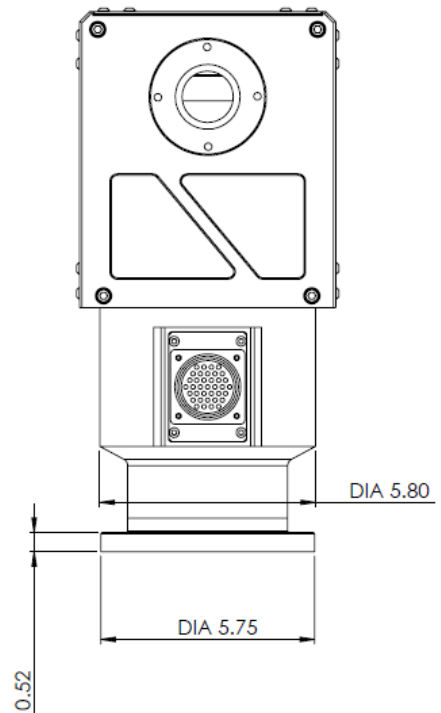
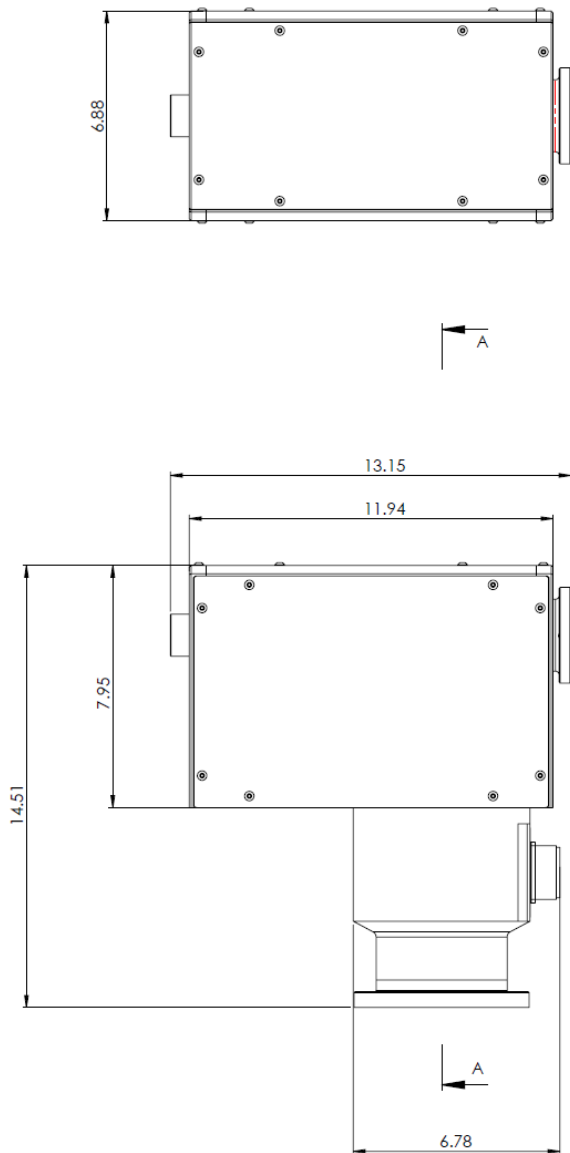
Payload	100 lbs (45Kg)
Torque	See Speed Torque Curve (P. 3)
Accuracy Encoders	+/- 0.1 degree
Backlash	0°
Scan Range	360° continuous pan axis
Rotation Speed	See speed torque curve
Power	48 VDC, 10A max for pan/tilt 50A for external load
Control	ETHERNET using Helios Independent ethernet for external load
Ethernet	Less than 2ms latency. 2 Separate 10/100Mbps channels
Motors	Brushless Stepper
Acceleration	30° per sec/sec

Housing Material	Aluminum
Dimensions	See Page 2
Weight	Approx 36.5 lbs w/o Bracket
Operating Temperature	Up to 122° F (50° C)
Storage Temperature	-4° to 140° F (-20 to 60°C)
Cable Management Slip Ring	Al Slip Ring 48V 100Mbps 48V @ 50A for Customer Devices
AUX Connector	Rotates w/tilt axis
Limit Switches	Manual & Software Set able
Tilt Bracket	Other Configurations available
Connectors	Amphenol – other options available – contact sales

PATHFINDER

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SPECIFICATIONS



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Revised 11/25/2025. Specifications subject to change without notice

Pathfinder Speed Torque Curves

