

CHASE 8™

Precision Pan & Tilt Positioner



Rugged Sensor Stacking Positioner – Shaft Ends PoE – 4KW to Payload
PATENTS PENDING





Precision Camera/Illuminator High Torque Geo-Pointing
Vertical & Horizontal Stacking – Radar, Cameras, Lasers, Audio
Big Power to Payload – Integrated 4 Port Switch, 3 PoE 802.3af

PATENTS PENDING

Positioner Overview

General:

Elegant High Precision & Torque
Integrated 4 Port Switch, 3 PoE
High Power Transfer Pan Slip Ring
Ethernet, RS232, RS422
Low Power – Low Heat

Mechanical:

Dimensions 18cm wide
26cm tall
32cm deep

Weight 5.8Kg

Payload Capacity 20Kg Top Flange
12Kg Right & Left Tilt

Materials Alu 6061-T6
SST 304 & 316
Silicone Seals
Kevlar-Urathane Belt
SST 18-8 Fasteners

Electrical:

MIL X1 Pedestal DOC 700544
MIL T1 Top Flange DOC 700525
MIL C1 Tilt Left DOC 700527
JET Tilt Right DOC 700528

COMM RS232/RS422/Ethernet
Network Switch 4 Port 100BaseT
Layer 2 Managed
3 POE Ports, 802.3af

Environmental:

2 Grms, 10-2,000 Hz, Ran, 3 axis
-30° to +65° C (-40° to +75° Opt)
IP66

Performance Details

Pan Movement Range 360° continuous
Pan Encoder Counts/Rev 1,200,000
Pan Speed (Resolution) 60°/s (.01°)
Pan Accuracy .02° 2σ
Pan Torque 12NM (25NM Opt)

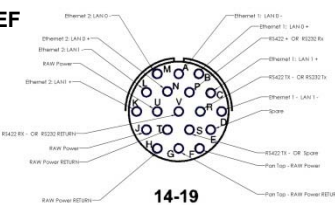
Tilt Movement Range +20° to -40° (±90 Opt)
Tilt Encoder Counts/Deg 3333.3
Tilt Speed (Resolution) 60°/s (.01°)
Tilt Accuracy .02° 2σ
Tilt Torque 12NM (25NM Opt)

Slip Ring Power Transfer 450W (4kW Opt)
Input Power 24VDC ±3VDC
Power Usage 2.5W typical
150W at 12NM (2x)

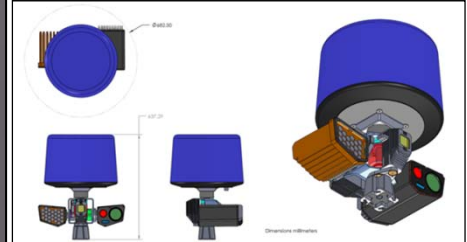
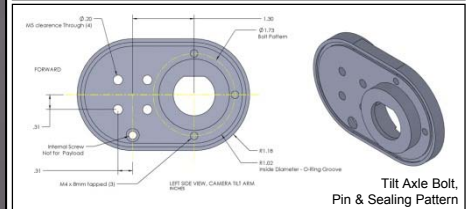
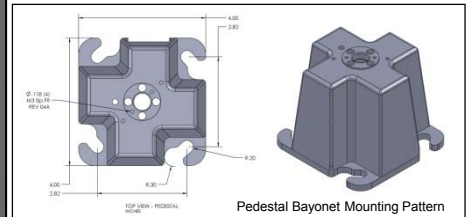
Health Sensors:

Internal Humidity 3% to 80% RH, 12Bit
Internal Pressure 50kPa to 115kPa, 12Bit
Internal Temperature -40° to +125° C, 14Bit
Servo Status 32Bit Assignments

MIL X1 DEF

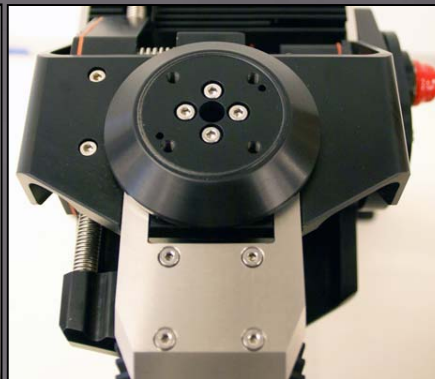


Mounting Details



System Software - Integrator Support:

Open Source ASCII Interface
XML ICD010x Proxy Server
SDK Third Party Support
Chase 8™ API – RS232/RS422



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