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EU-40 Challenger

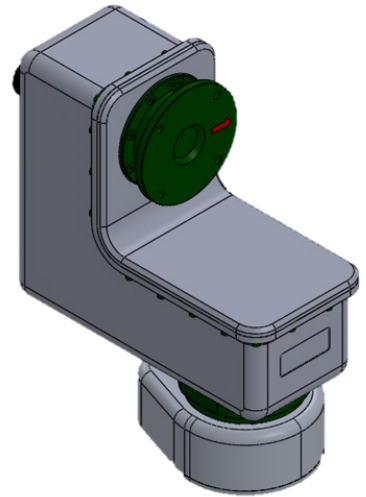
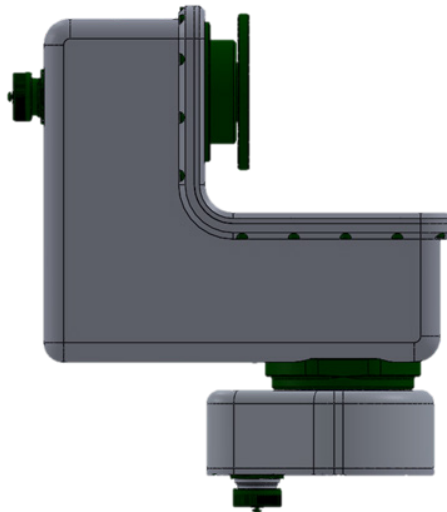
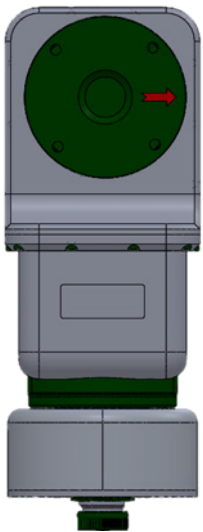
The Challenger dual axis positioner is a first range, high performance Elevation over Azimuth Unit.

Azimuth axis has continuous rotation using slip-rings with Ethernet, Signals & Power lines.

The Challenger has high stiffness and low backlash with a payload in motion and it is easy to integrate with other system's modules.

The Challenger can be modified according to customer requirements including the unit interfaces and software communications.

The Challenger positioner can also be supplied with Euclid's Tracking Controller (MCU) to provide progressive control modes and target's tracking algorithms.



KEY FEATURES

- > EII: Euclid Intuitive Integration for easy
- > Dual axis Positioner
- > Ethernet and Serial communication
- > Qualifying for harsh environment
- > 360° Continuous azimuth travel
- > Supplied with Euclid's MCU Unit

EU-40 Challenger



Specifications

Parameter	EU-40 Challenger
Payload	20 Kg / 44 Lbs
Max. Operation torque	40 Nm / 29.5 Lb Ft
Weight	9.9 Kg / 21.8 Lbs
Pointing accuracy	< 0.3°
Control resolution	< 0.01°
Dimensions	360 x 150 x 320 mm
Elevation travel range	-5 to 185 Degrees (Adjustable Limits)
Azimuth travel	360° continuous
Slip Ring Signals (golden)	Ethernet line & 20 signals @ 2Amp & 2 Power @ 10 Amp . Option to add second Ethernet line, signals and Power lines
Speed	25 deg/sec. Optional up to 50 deg/sec
Operating voltage	24 VDC (18-30V) / optional: 12-80 VDC
Control	Direct control over position/speed/torque closed loops / optional via internal MCU (high-level ETH protocol)
Operating temperature	-10 - 60°C / optional: -30 - 60°C
Storage temperature	-30 - 70°C
Environment sealing	IP 66
Internal protection	Over/Under-voltage, Over-temperature, Over-current, I2t, Short-circuit