



Euclid

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EU-25-1 Explorer One Axis

The EXPLORER positioner is a small size & weight, Single axis positioning system, which can deliver an impressive torque (25Nm) with excellent cost-effectiveness.

The EXPLORER is an Elevation over 360° continuous Azimuth axis positioner, equipped with Ethernet supported slip-rings and cutting edge motion drivers and DC brushless motors.

The EXPLORER positioner can be easily integrated with various types of payloads to provide accurate motion, low backlash, and high reliability dual axis positioning.

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



KEY FEATURES

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

EU-25-1 Explorer One Axis



Specifications

Parameter	EU-25-1 Explorer One Axis
Directional Antenna XT conf.	S-Band: 23dBi (typ.) parabolic grid; C-Band: 27dBi (typ.) flat panel
Directional Antenna XTR conf.	S-Band: 26dBi (typ.) parabolic grid ; C-Band: 28-29dBi (typ.) dish antenna
Omni Antenna	2dBi dipole, 6dBi is optional
GDT Weight	25Kg (w/o tripod)
General Dimensions	95 x 90 x 50cm (H x W x D, w/o tripod)
Tripod	Euclid 3rd Element heavy duty tripod (payload up to 50kg, Self-weight: 6.8kg, Max height: 140cm)
Power	<u>Input voltage:</u> 28Vdc (16 – 50V) ; <u>Power consumption:</u> 200W nominal (< 300W peak)
Azimuth Travel	360° continuous
Elevation Travel	-5° to 50°
Elevation Axis Limits	Software limits, electrical limits and hard stops
Speeds	<u>Azimuth:</u> up to 40°/sec ; <u>Elevation:</u> up to 20°/sec
Software Interface	TCP/UDP Ethernet (Euclid MCU protocol)
Tracking / Pointing	Dual Axis RSSI tracking (based on DL RSSI input from host) / GPS pointing (based on target's location input from host)
Search Modes	Automatic SEARCH mode for target's re-acquisition upon track loss; sectorial SCAN mode for RSSI tracking initial target's acquisition
Orientation Sensors	Built-in Compass, tilt sensor and GPS module (automatic north finding and positioning during GDT BIT)
Temperatures	<u>Operation:</u> -34°C to 60°C ; <u>Storage:</u> -40°C to 71°C
Environmental	IP-67