

The EAR-1250-SYS consists of the Elevation-over-Azimuth Positioner, controller (ACU-3E-24) and cables required for power and control of the positioner.

The load capacity of the system is 5000 lbs with a 5g vertical shock rating. It is designed to meet MIL-STD-810 and will provide reliable operation in outdoor environments. An azimuth slip ring with a 4" ID allows coaxial or waveguide rotary joints.

Utilizing an advanced digital motion control system, it provides accurate, simultaneous motion in both axis using brushless servo motors with resolvers, 15 bit absolute encoders, high quality gearing and precision mechanical components. Ideally suited for communication, Radar, tracking or EW applications.

The EAR-1250 can be controlled locally using front panel controls or remotely via serial Interface (RS-232, 422, 485 or Ethernet) using simple, well defined commands. The controller is suitable for rack mounting and is designed to meet Mil-STD-810 for indoor operation and MIL-STD-461E depending on the application.

RANGE of MOTION

Azimuth: Continuous
Elevation: -5° to 185°

POSITION DATA RESOLUTION

Both Axis: ±0.011°

POSITIONING ACCURACY

Azimuth: ±0.07°
Elevation: ±0.07°

CONTINUOUS TORQUE

Azimuth: 5,000 ft lbs
Elevation: 5,000 ft lbs

VELOCITY:

Azimuth: 1 - 36 deg/sec
Elevation: 1 - 15 deg/sec

ACCELERATION:

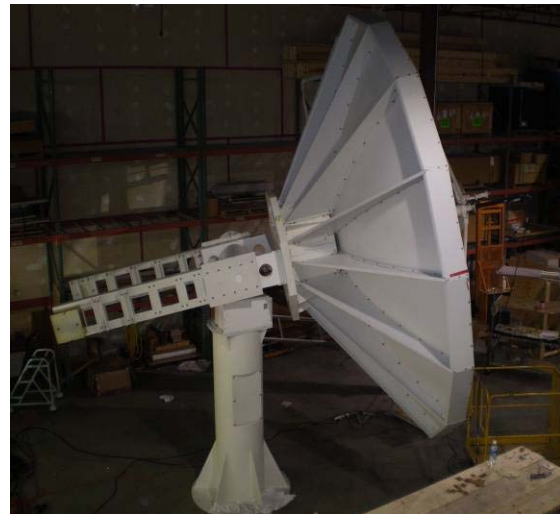
Azimuth: 6 deg/sec²
Elevation: 6 deg/sec²

POWER INPUT:

Controller 120/240 VAC

WEIGHT:

Positioner: 4000 lbs (680 kg)
Controller: 40 lbs (23 kg)
Operational Temperature: -40° to 55°C
Relative Humidity: 0 to 100%



EAR-1200 w/ 4.3m Antenna



ACU-3E-24-CCPR Controller