# EAR-1200
# Elevation/Azimuth Positioner

1-27-16

## *EAR-1200 Elevation over Azimuth Positioning System:*

The EAR-1200-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 2250 lbs with a 5g vertical shock rating. It is designed to meet Mil-STD-810E 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-1200 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-810E 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: ±0.1°
- Elevation: ±0.1°

CONTINUOUS TORQUE
- Azimuth: 5,000 ft lbs
- Elevation: 5,000 ft lbs

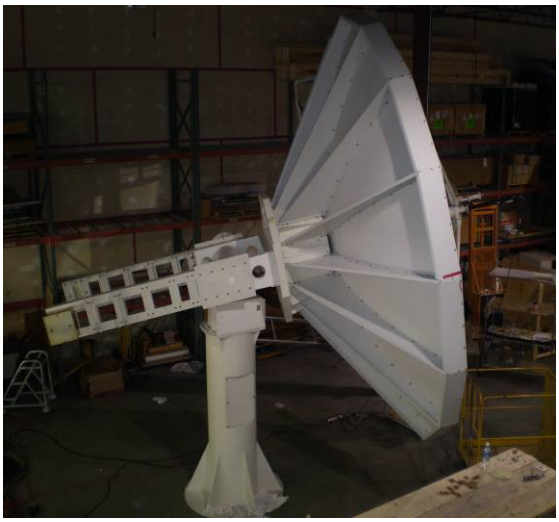
VELOCITY:
- Azimuth: 1 - 36 deg/sec
- Elevation: 1 - 15 deg/sec

ACCELERATION:
- Azimuth: 6 deg/sec²
- Elevation: 6 deg/sec²

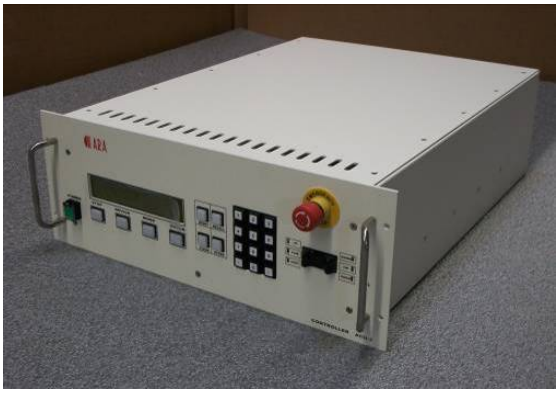
POWER INPUT:
- Controller 220VAC

WEIGHT:
- Positioner: 4000 lbs (680 kg)
- Controller: 40 lbs (23 kg)

POSITIONER:
- Operational Temperature: 0°-131°F (-20° to 55°C)
- Relative Humidity: 0 to 100%



**EAR-1200 w/ 4.3m Antenna**



**ACU-3E-24-CCPR Controller**