

## EAR-1000 Elevation over Azimuth Rotating System:

The EAR-1000 consists of the Elevation-over-Azimuth Rotator (EAR), controller (ACU-3D-24) and cables required for power and control of the positioner. The EAR rotator is designed with an azimuth slip-ring to allow continuous motion. A riser (up to 8 feet tall) and counter weights are included. See Photos.

The load capacity of the system is 1000 lbs with a 10g vertical shock rating.

The positioner designed for reliable operation in outdoor environments, and is designed to meet MIL-STD-810E.

The control unit can be remotely located to facilitate integration with the end user's system. It can be controlled locally using front panel controls or remotely via serial Interface (RS-232) using simple, well defined commands. The control unit is suitable for mounting in an equipment rack or on a table. The controller is designed to meet MIL-STD-810E for indoor operation.

### RANGE of MOTION

Azimuth: Continuous  
Elevation:  $-10^{\circ}$  to  $190^{\circ}$

### POSITIONING ACCURACY

Azimuth:  $\pm 0.1^{\circ}$   
Elevation:  $\pm 0.1^{\circ}$

### CONTINUOUS TORQUE

Azimuth: 18,000 in lbs (1,500 ft lbs)  
Elevation: 123,000 in lbs (10,260 ft lbs)

### VELOCITY:

Azimuth: 1 - 6 deg/sec  
Elevation: 1 - 6 deg/sec

### ACCELERATION:

Azimuth: 6 deg/sec<sup>2</sup>  
Elevation: 6 deg/sec<sup>2</sup>

### POWER INPUT:

Controller 120VAC/60Hz

### WEIGHT:

Positioner: 720 lbs (327 kg)  
Controller: 50 lbs (23 kg)

### POSITIONER:

Operational Temperature:  $0^{\circ}$ - $131^{\circ}$ F  
 $(-20^{\circ}$  to  $55^{\circ}$ C)  
Relative Humidity: 0 to 100%





