EW TRACKING SYSTEMS

Training and Simulation system used to support both EO and EW countermeasure testing. The system is configurable to support a wide variety of EO and RF payloads and is capable of operation from fixed or mobile sites.

PAYLOADS:
- 35x Zoom Optical System
- MWIR Camera System
- Laser Rangefinder
- Dual 4-ft Antenna Systems
- Transportation/Tracking Base
- Counterweights

SYSTEM CONFIGURATION:
- Remote Operator's Station
- Dell Server
- Series 7000 PCI-express Video Tracker
- Data Logging
- Remote Designate
- Fiber Optic Interface
- High Frame Rate 100Hz
- Servo Controller on Pedestal

PEDESTAL CHARACTERISTICS:

<table>
<thead>
<tr>
<th>CHARACTERISTICS</th>
<th>AZIMUTH</th>
<th>ELEVATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOTOR SIZE (Dual Opposed Drive)</td>
<td>250 Watt (each)</td>
<td>250 Watt (each)</td>
</tr>
<tr>
<td>GEAR RATIO</td>
<td>445:1</td>
<td>445:1</td>
</tr>
</tbody>
</table>
RATED TORQUE 400 ft-lb (total) 400 ft-lb (total)
RATED GEAR STRENGTH 1,000 ft-lb (total) 1,000 ft-lb (total)
BACKLASH 0.0° 0.0°
ANGULAR TRAVEL (Operational) ±380° -35° to +90°
ANGULAR TRAVEL (Mechanical) ±410° -40° to +95°
VELOCITY (max.) >35/s >35/s
ACCELERATION (max.) >25/s² >25/s²
DATA PACKAGE 19-Bit Resolution (17 Bit Driven 4x)
LIMIT SWITCH (1) CW Limit (1) Up Limit
(1) CCW Limit (1) Down Limit
(1) Interlock
POWER REQUIRED Powered by DE-20XX Controller
WEIGHT: Pedestal 350 lbs (est., w/o counterweights)
Counterweights 500 lbs
Tracking Platform Provides a stable base for remote location
TEMPERATURE -20°C to +55°C Operational
-30°C to +60°C Non-operational

SERVO CONTROLLER CHARACTERISTICS:

LOCAL DISPLAYS Power ON/Interlock Indicator
REMOTE CONTROLS Ethernet, UDP/IP
Controls Position Mode, Velocity Mode, Analog Velocity Mode, Standby Mode, Servo On/Off, Position Offset, Max Position Velocity, Max Acceleration.
INPUT DATA FORMATS Ethernet and Serial Digital Interface
DATA OUTPUT FORMATS Ethernet and Serial Digital Interface
SERVO DRIVE OUTPUT 340 Volts DC
INPUT POWER 240 VAC, 50/60 Hz, 20 Amps
SIZE 19-in W × 10.5-in H RETMA Chassis
WEIGHT 60 lbs
LOCATION On Pedestal Base