

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:

CHARACTERISTICS

MOTOR SIZE (Dual Opposed Drive)

AZIMUTH

250 Watt (each)

ELEVATION

250 Watt (each)

GEAR RATIO

445:1

445:1

Engineering High Performance Tracking Solutions

This document contains information which is proprietary to Electro-Optical Imaging, Inc. The information in this document shall not be disclosed, duplicated or used in whole or in part without permission. The information subject to this restriction is contained in all pages of this document.

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°/s ²	>25°/s ²
DATA PACKAGE	19-Bit Resolution (17 Bit Driven 4x)	19-Bit Resolution (17 Bit Driven 4x)
LIMIT SWITCH	(1) CW Limit (1) CCW Limit	(1) Up Limit (1) Down Limit (1) Interlock
POWER REQUIRED	Powered by DE-20XX Controller	
WEIGHT:	Pedestal Counterweights Tracking Platform	350 lbs (est., w/o counterweights) 500 lbs 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.
Feedback	Position, Position Offset, System Status (Interlock, Servo mode, Servo On/Off, Servo Status), 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

