

An integrated tracking system, including pedestal, tracker, dual IR stimulator and payload structure for EW evaluation and training.



PAYLOADS:

- 35x Zoom Optical System
- Dual IR Stimulator Systems
- Laser Rangefinder
- Jam Beam Radiometer
- Portable

SYSTEM CONFIGURATION:

- Remote Operator's Station
- Dell Server
- Series 6000 Video Tracker
- Data Storage
- Remote Designate

PEDESTAL CHARACTERISTICS:

CHARACTERISTICS

AZIMUTH

ELEVATION

MOTOR SIZE (with integral tach)

100 watts (continuous)
200 watts (peak)

100 watts (continuous)
200 watts (peak)

GEAR RATIO

445:1

445:1

CONTINUOUS DRIVE TORQUE

90 ft-lb

90 ft-lb

PEAK DRIVE TORQUE (1.5 sec)

180 ft-lb

180 ft-lb

Engineering High Performance Tracking Solutions

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RATED GEAR STRENGTH	500 ft-lb	500 ft-lb
ANGULAR TRAVEL (Electrical)	> $\pm 190^\circ$	-10° to +85°
ANGULAR TRAVEL (Mechanical)	$\pm 240^\circ$	-20° to +95°
STOW POSITION	0°	-5°
MAXIMUM VELOCITY	30°/sec	30°/sec
MAXIMUM ACCELERATION	30°/sec ²	30°/sec ²
COMPLIANCE	6 x 10 ⁻⁶ rad/ft-lb	6 x 10 ⁻⁶ rad/ft-lb
DATA PACKAGE (absolute M/T encoder)	15 Bit Resolution (13 Bit Driven 4x)	15 Bit Resolution (13 Bit Driven 4x)
LIMIT SWITCH	CW, CCW, INTLK	UP, DOWN, INTLK
BACKLASH	< 0.03°	< 0.03°
WEIGHT	< 275 lbs 0 lbs (Counterweights) < 525 lbs (Payload)	
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 x 10.5-in H RETMA Chassis
WEIGHT	60 lbs (est)

