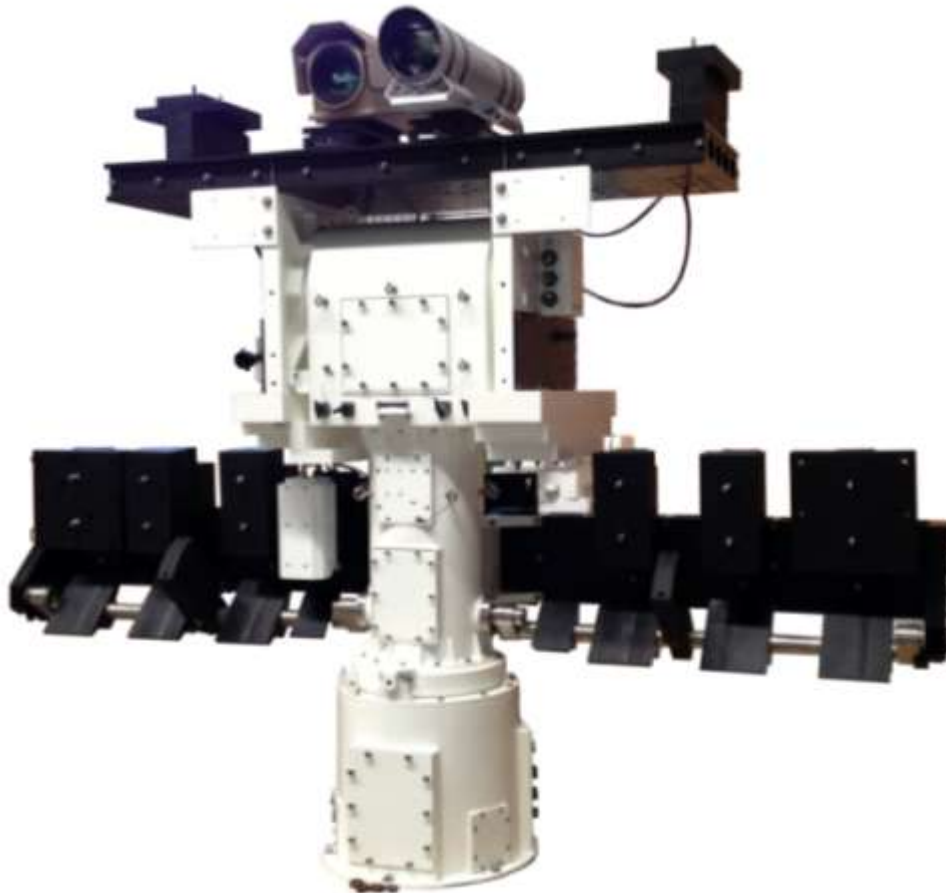


E-O TRACKING SENSOR TEST BED

Large Tracking Mount (LTM) System used in the evaluation of IR countermeasure systems.



PAYLOADS:

- E-O Sensor System (12)
- Model 901 35x Zoom Optical System
- MWIR 12.5X Zoom Optical System
- Laser Rangefinder
- Test Article Stations (6)
- MWIR Boresight Camera
- Visible Boresight Camera
- Boresight Fixtures

LARGE TRACKING MOUNT SYSTEM:

- 3-axis tracking system
- System supports up to twelve (12) E-O sensor packages
- Six (6) test article stations
- Third axis – mirror axis
- Easily configurable to mission requirements
- Max payload > 3500 lbs (1600 kg)
- Operator's Station
- Servo Controller on Pedestal
- Simultaneous bus Interfaces (Serial/Ethernet/bus)

PEDESTAL CHARACTERISTICS:

<u>CHARACTERISTICS</u>	<u>AZIMUTH</u>	<u>ELEVATION</u>	<u>MIRROR</u>
MOTOR (Dual Opposed Drive)	1.5 HP (2x)	1.5 HP (2x)	3.5 HP (Rated)
GEAR RATIO	510:1	486:1	1:1

Engineering High Performance Tracking Solutions

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<u>CHARACTERISTICS</u>	<u>AZIMUTH</u>	<u>ELEVATION</u>	<u>MIRROR</u>
RATED TORQUE	1,000 ft-lb	1,000 ft-lb	13 ft-lb (Continuous) 40 ft-lb (Peak)
RATED GEAR STRENGTH	4,000 ft-lb	4,000 ft-lb	N/A
BACKLASH	0° (Dual Opposed)	0° (Dual Opposed)	0° (Direct Drive)
ANGULAR TRAVEL (Electrical)	>±100°	-5° to +91°	360° Continuous
ANGULAR TRAVEL (Mechanical)	>±110°	-10° to +95°	360° Continuous (bumper contact)
STOW POSITION	0°	0°	+90°
MAXIMUM VELOCITY	>40°/sec	>40°/sec	>20°/sec
MAXIMUM ACCELERATION*	>60°/sec ²	>60°/sec ²	>30°/sec ²
DATA PACKAGE (On axis, direct coupled) (17 bit Accuracy Device)	23 bit Resolution	23 bit Resolution	23 bit Resolution
LIMIT SWITCH	Primary & Secondary	Primary & Secondary	None
POWER INPUT	240 VAC / 50 Hz / 15 amps (max) (TBR)		
ORTHOGONALITY	0.0042° (15 arc seconds)		
WEIGHT	1,500 lbs (est.)		
TEMPERATURE	-5°C to +50°C Operational -20°C to +60°C Non-operational		

SERVO CONTROLLER CHARACTERISTICS:

LOCAL DISPLAYS	Power ON/Interlock Indicator (One LED for AZ/EL and one LED for Mirror Axis)
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 (est)

