TRAILER BASED TRACKING SYSTEMS

Kennedy Space Center (KSC) Test Bed for sensor evaluation. High-performance trailer-mounted tracking system for Space Shuttle launch and landing operations, and Delta and Atlas launch operations.

PEDESTAL CHARACTERISTICS:

CHARACTERISTICS	AZIMUTH	ELEVATION
MOTOR (direct drive)	1200 Watts (peak)	1200 Watts (peak)
GEAR RATIO (direct drive)	1:1	1:1
PEAK TORQUE	150 ft-lb	150 ft-lb
RATED CONTINUOUS TORQUE	100 ft-lb	100 ft-lb

Engineering High Performance Tracking Solutions

BACKLASH (Direct drive)	0°	0°
ANGULAR TRAVEL	±180°	-20° to +90°
MAXIMUM VELOCITY	150°/sec	150°/sec
MINIMUM VELOCITY	0.004°/sec	0.004°/sec
MAXIMUM ACCELERATION* (w/ 30 slug-ft^2 load inertia)	150°/sec^2	250°/sec^2
DATA PACKAGE (21 bit absolute encoder)	(0.0002°/bit)	(0.0002°/bit)
LIMIT SWITCH	Primary & Secondary	Primary & Secondary
POWER INPUT	65 VDC, up to 30 amps cont. and 40 amps peak	
ORTHOGONALITY	0.0042° (15 arc seconds)	
WEIGHT	950 lbs (est.)	
TEMPERATURE	-40°C to +130°C Operational -60°C to +150°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 (est)

EO Imaging
ELECTRO-OPTICAL IMAGING, INC.
4300 Fortune Place, Suite C • West Melbourne, FL 32904
phone: 321-435-8722 • fax: 321-435-8723
email: sales@eoimaging.com • website: www.eoimaging.com