ELECTRO-OPTICAL IMAGING, INC.

Incorporating E-O Imaging's Advanced Real-Time VME, PCI, or cPCI Based Video Tracker

PRECISION REAL-TIME TRACKING

MOBILE AUTOMATIC TRACKING SYSTEM (MATS)

E-O Imaging has developed an affordable automatic video tracking system derived from 30 years of video tracking experience. This system meets the need for a low-cost, high-performance tracking system for range and surveillance applications.

Features

- Compact
- Lightweight
- Manual or Automatic Operation
- Accurate and Reliable
- Self-Contained
- Easy to Setup and Use
- Single/Multiple Sensors Configurations
- Slave and Designate Modes
- Programmable Scan Modes
- Data Logging

Performance Specifications*

• Payloads	(MATS-L):	75 lbs. (max.) balanced
	(MATS-H):	200 lbs. (max.) balanced
• Velocity	Maximum:	60^{o} per second
	Minimum:	0.01^{o} per second
• Acceleration	Azimuth:	60^{o} per second^2
	Elevation:	60^{o} per second^2
• Encoder Resolution	(MATS-L):	16 bits
	(MATS-H):	17 bits
• Tracking Accuracy	0.1 degrees	
• Repeatability	36 arc sec	
• Azimuth Travel	$\pm 180^{o}$	
• Elevation Travel	$+85^{o}$ - 30^{o} (payload dependent)	
• Power	120/240 Vac, 50/60 Hz, 3 amps	
• Operation Temperature	-20^{o}C to $+60^{o}$C	

Applications

- Surveillance
- Manual and Automatic Video Tracking
- Scientific Investigation
- Test and Evaluation
- Simulation and Training
- Time Space and Position Information

Basic System Configuration

- Tripod
- Pan and Tilt Assembly
- Controller
- Joystick (2 axis)
- E-O Imaging Series 6000 Automatic Video Tracker*
- RS-422 Interface with 50 feet of Cable
- System Software and Graphical User Interface (GUI)
- CCD Tracking Camera with 14-385mm Zoom Lens
- Power Supply
- Operator's Manual
- Control Computer

Options

- Laser Rangefinder
- Remote Operation
- Sensor Packages
- Zoom/Fixed Optics
- VME or PCI Intel Based Computer
- IR Camera
- GPS and IRIG B Time
- Alternate Pedestal Configurations (Post or Yoke)
- Velocity >100^{o}/sec.
- Acceleration >100^{o}/sec^2.

** Consult factory for latest specifications and options.*

Engineering High Performance Tracking Solutions

System Level Products

Series 3000 Automatic Tracking System (ATS)

The Series 3000 ATS is designed to meet the need for a low cost, high performance turnkey tracking system for use in a broad range of applications and environments. The system design uses proven off-the-shelf hardware for enhanced reliability and maintainability. The system is easily adapted for shipboard, airborne, vehicle-mounted, surveillance and tracking applications. The payload can be configured to handle a broad range of sensors, including TV, FLIR, MMW Radar, Laser Rangefinder, LIDAR and RF Systems.

The system is available in various configurations, including man-portable, fixed site and transportable systems.

Features and Options

- Local/Remote Control
- Microprocessor Control
- Payload Mounting Structure
- Direct Drive DC Motors for Precision
- Single Station TSPI Solution
- Integration of Customer Furnished Equipment (CFM)
- Payload Instruments (Video/FLIR/MMW Radar/LIDAR/LRF) (option)
- Gyro Stabilization (option)
- Optical Encoder Packages (option)
- Velocity >100 Degrees/Sec (option)
- Acceleration >100 Degrees/Sec2 (option)
- Operator's Console (option)
  - Video Monitors
  - Video Tracker
  - Video Annotator
  - Video Recorder

Services and Capabilities

- Depot Level Repair - E-O Imaging provides depot level repair for the following DBA Systems/Titan Corporation Video Tracker Products:
  - Model 606-3, 606-3A, 606-3M/C, 606-3M/4 Trackers
  - Model 606-4M/C, 606-4M/R, 607-4M/C, 607-4M/R Trackers
  - Series 6000 VME Trackers
- Equipment Lease - for customers with short term needs or limited budgets, E-O Imaging has Video Trackers andTracking Systems available for lease. Consult the factory for details and availability.
- Refurbished Equipment - E-O Imaging has a number of reconditioned trackers and card sets. Contact the factory for available models and price.
- Capabilities - E-O Imaging offers its customers a broad array of technical capabilities including:
  - Embedded DSP Hardware/Software Development
  - System Engineering
  - Mechanical Design and Packaging
  - Custom Systems and Products
  - Servo Control
  - Custom FPGA Design
  - Unix® and Windows® Software Development
  - Engineering Support and Training

Retrofit Kits

E-O Imaging has available Retrofit Kits for the Model 606-3/3A and 606-4M/C that allow the user to incorporate the latest tracker technology in their existing rack mount trackers. Retrofit Kits can be structured around E-O Imaging's PCI or VME-based trackers.*

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