



ELECTRO-OPTICAL IMAGING, INC.

Engineering High Performance Tracking Solutions

Tracking Systems

Configurations

- *Man Portable (MATS)*
- *Trailer Mounted*
- *Fix Site*
- *Master / Slave*



PRODUCT OVERVIEW

Electro-Optical Imaging, Inc., is a leader in the development and manufacture of high performance Video Trackers and Tracking Systems with a legacy of over forty years of providing quality products. From board level tracker products to fully integrated turnkey systems, quality products and customer support are our number one priority. We offer a diverse line of off-the-shelf video tracker products easily adapted to the most complex and demanding test range, tactical and surveillance applications. E-O Imaging is committed to providing customers with innovative, cost-effective solutions for the most stringent requirements.

Mobile Automatic Tracking System (MATS)

The MATS was developed to provide a reliable, easily deployable, cost-effective solution for fielding electro-optical instrumentation in support of weapon, aircraft and missile testing. The system can be controlled from a laptop computer or from a remote location over an RS-232/422 serial interface or a TCP/IP Ethernet port. The MATS is comprised of four (4) subsystems, the System Computer, Sensor Suite, Operator's Consoles and the Positioner. The system design allows both automatic and manual operations with both local and remote control capability. The MATS architecture allows E-O Imaging the flexibility to furnish the user a system optimized for their specific needs, from a simple single camera payload to complex multi-instrument imaging and data collection systems.

Master Slave Tracking System (MSTS)

The Master Slave Tracking System provides the user a fully integrated tracking system comprised of a master tracking station and up to six (6) slave stations. The system's master processor incorporates a dual Xeon-based[®] Dell PowerServer capable of storing up to half of a terabyte of realtime video information. The processor calculates latitude/longitude of the slave stations. Pointing vectors are provided over Ethernet, fiber optic or RF links. The processor also time-tags and logs mission critical parameters. Standard features include GPS/IRIG-B capability, laser rangefinder, and IR and visible camera systems. The pedestal's systems are capable of positioning payloads of up to 150 lbs. at velocities of 100 deg/sec and accelerations of up to 100 deg/sec². The system is man-portable for easy deployment with all subsystem components housed in ruggedized shipping cases.

Weapons Scoring System (WSS)

The Weapons Scoring System provides the user a highly adaptable man-portable system for developing realtime or post mission Time Space Position Information in support of weapons system evaluation. The WSS System can be used for trajectory determination or measurement of a weapon system's accuracy against land, air and sea targets. The system architecture is based on E-O Imaging's Mobile Automatic Tracking System (MATS) and can be easily configured to meet specialized user requirements.

Advanced Countermeasures Test-bed System (ACTS)

The Advanced Countermeasures Test-bed System (ACTS) was developed and fielded by E-O Imaging as a high performance test-bed for the evaluation of countermeasures and their effectiveness against a wide variety of airborne targets. The system design allows easy interchange-ability of both the countermeasure and sensor systems based on mission requirements to satisfy potential safety considerations. The ACTS is configurable for operation from either a local operator's station or from remote locations at maximum distances greater than 4 kilometers using either RF or fiber optic communication links. Payloads of up to 400 lbs. can be slewed at angular velocities up to 100 deg/sec and at angular accelerations up to 100 deg/sec², providing pointing accuracies satisfying the requirement for precision tracking of airborne targets. The ACTS provides the ability to record and store mission data for playback and post mission analysis with video storage provided for both analog and digital format sensors. The system has successfully demonstrated its capabilities with directed energy countermeasures against both supersonic and "slow mover" airborne targets.



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