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Find the *EO Imaging 6007* at our website: ***Click HERE***

ELECTRO-OPTICAL IMAGING, INC.

Model 6007

PCI Multi-Mode Video Tracker (MMVT)



The system design provides the user a flexible architecture, allowing the MMVT the ability to track a target over a broad range of tracking environments. The system design incorporates the latest in digital signal processing (DSP) and field programmable gate array (FPGA) technology and interfaces with both analog and digital video inputs, providing easy interfacing with a wide variety of sensor systems. The analog video interface provides a 12-bit, 4096 gray level capability, supporting both standard and non-standard video formats. The digital video interface provides a full 16-bit, 65536 gray level capability. The MMVT design permits easy adaptation to laboratory, surveillance, robotics, inspection, test range and tactical requirement.

The Model 6007 is a true single board tracker, with all stated features implemented on a single PCI card, requiring no additional daughter boards or modules.

Standard Features

- Algorithm Processing (5)
  - Selectable Edge, Mass/Intensity Centroid, Vector* and Correlation** Modes
- RS232/422 Serial Communication Ports (8)
- PCI Interface
- RS170/RS170A/NTSC/PAL/CCIR/RS343 Differential/Single-ended Video Inputs (4), 12-bit Resolution
- Analog Video Outputs (3), 2 with Symbology and 1 Without
- 16-bit LVDS Digital Video Input
- Interlaced and Sequential Video Format Capability
- 1024x1024 Sensor Array Capability
- Analog Inputs (8), 16-bit Resolution
- Analog Error Outputs, 16-bit Resolution
- Analog Outputs (2), 16-bit Resolution
- Sophisticated Intrusion Detection Algorithms
- Auto Acquisition and Target Detection
- Auto/Manual Gate Position Capability
- Adaptive and Manual Gate Size Capability
- Adaptive and Manual Threshold Functions
- Automatic Coast and Target Reacquisition
- Advanced PID Servo Compensation Filter
- Embedded MATS or Generic Pedestal Controller
- Interface to 701 or 702 Remote Controllers

Description

The Multi-Mode Video Tracker System incorporates five (5) tracking algorithms to determine the target's spatial coordinates; Mass Centroid, allows both binary and multi-gray level target tracking; Intensity Centroid, provides high accuracy subpixel positioning for stellar and point source targets; Selectable Edge, provides the ability to track a specific edge of the target; Vector*, provides the ability to track the leading edge of a target; and Correlation**, provides high accuracy subpixel positioning for tracking complex scenes and target features.

The MMVT design incorporates a multiple DSP implementation allowing concurrent operation of algorithms in real-time. The system is structured with an open architecture allowing easy incorporation of additional tracking gates and specialized features.

* Vector track mode is only available with mount position feedback
** Correlation is optional, when ordering specify Model 6007-2

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