



ELECTRO-OPTICAL IMAGING, INC.

Engineering High Performance Tracking Solutions

Automatic Video Trackers

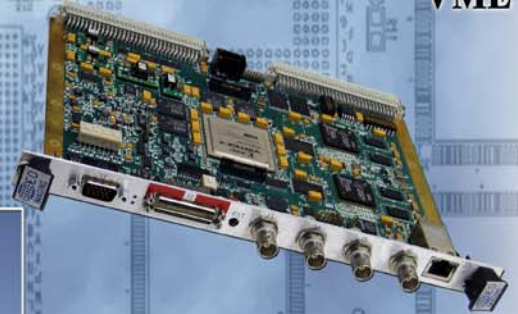
**CAMERA LINK
7005-CL
VME**



**6007
PCI**



**HIGH DEFINITION
7005-HD
VME**



**6010
cPCI**



**7100M
CUSTOM**



**6005
VME**

Features

- Embedded Target Simulator
- Embedded Image Processor
- Supports 2K x 2K Sensor Arrays
- Multi-Target Tracking
- Gigabit Ethernet
- Camera Link Full Capability
 - 1K x 1K @ 120 Hz
- (4) Analog Video Inputs
 - NTSC / RS170 / PAL / CCIR / RS343
- (2) HD-SDI Video
 - 480p, 720p, 1080i, 1080p

Options

- Non-Standard Video Formats
- Trajectory Simulation Capability
- Operator Training Capability
- Advanced Clutter Rejection
- Custom Designs
 - Packaging
 - Algorithms
 - Alphanumerics / Graphics
 - Turnkey Systems

VME PCI cPCI Custom

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.

Models 6005/6006 VME-Based Video Trackers

The Models 6005/6006 VME-based video Trackers provide the user a suite of algorithms allowing the trackers to be easily adapted to the diverse requirements encountered in surveillance, range and tactical environments. The devices can be interfaced to a wide variety of sensors, including analog (RS-170, NTSC, PAL, CCIR, RS-343, both single end and differential) and digital sensors (e.g., Camera Link). All VME trackers are provided with extended temperature range operation and all are conformal coated. The trackers provide multiple interfaces including VME, serial, analog and digital. A user-friendly GUI provides a straightforward interface for configuring the tracker to the user's requirements.

Models 6007/6008 PCI-Based Trackers

The Models 6007/6008 PCI-based Trackers were designed to provide the user a friendly, easily integrated and highly adaptable video-object tracking capability. In creating the PCI Tracker, E-O Imaging migrated its proven VME-based video tracker products into a family of PCI-based trackers with improved performance and expanded capabilities. In the course of the design process, a number of added capabilities and enhancements were incorporated into the tracker's architecture. These added features include an expanded analog video interface, an enhanced PID filter, and optional packaging configurations, including an extended temperature range version.

Models 6010/6011 cPCI-Based Video Trackers

The Models 6010/6011 cPCI-based video Trackers incorporate all of the features found in E-O Imaging's VME and PCI Tracker Products. The Models 6010/6011 Trackers support both analog and Camera Link video cameras as standard features. The trackers support sensor arrays of up to 1K X 1K at video bandwidths of 40 MHz. The tracker is supplied with all required interface cabling, a Software Development Kit (SDK) including driver, API and sample code. A GUI provides a user-friendly interface for configuring the tracker.

Models 7005/7006 VME-Based Automatic Video Trackers

The Model 7005/7006 VMEbus Automatic Video Tracker (AVT) defines the latest tracker product family in E-O Imaging's continued commitment to product innovation and improvement and is available in either a High Definition (HD) configuration or a Camera Link (CL) version. This single board tracker provides the user a system easily adapted to a wide range of target and tracking environments through the incorporation of the latest in digital signal processing (DSP) and field programmable gate array (FPGA) technology (providing a flexible architecture for customization). The Model 7005 interfaces with both analog and digital video sources, providing ease in interfacing with a wide variety of sensor systems. The analog video interface provides full 12-bit, 4096 gray level capability supporting an array size up to 1024 x 1024, while the HD video interface supports 480i, 480p, 720p, 1080i and 1080p resolutions, SMPTE 259M / SMPTE 344M / SMPTE 292M. The tracker design incorporates a multiple DSP implementation allowing concurrent operation of algorithms in realtime. The system is structured with an open architecture allowing easy incorporation of specialized features and algorithms. The Model 7005's standard features and options permit easy adaptation to even the most complex and demanding test range, tactical, surveillance and industrial applications. A dual target version of this tracker with the same superior performance and features is available in the Model 7006 product.

Models 7007/7008 PCI-Based Automatic Video Trackers

The Model 7007 PCI Automatic Video Tracker (AVT) provides the same degree of performance and equivalent features to the Model 7007/7008 but in a PCI configuration. A dual target version of this tracker is available in the Model 7008 product.

Models 7010/7011 PCI-Express Automatic Video Trackers

The Model 7010 PCI-Express Automatic Video Tracker (AVT) provides the same degree of performance and equivalent features to the Model 7007/7008 but in a PCI configuration. A dual target version of this tracker with the same superior performance and features is available in the Model 7011 product.

Model 7100M Miniature Automatic Video Tracker

The Model 7100M Automatic Video Tracker (AVT) provides the same degree of performance and equivalent features offered in all products from the 7000 Series trackers. This tracker has the additional advantage of supporting full customization to the user's signal and mechanical interfaces.



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