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Find the *Cognex MVS-8110/CVM1-32* at our website: ***Click HERE***

High Performance, Multichannel PCI Bus Frame Grabber

The Cognex MVS-8110™ is a modular PCI bus frame grabber that combines MMX-optimized host-based processing and Cognex's comprehensive library of vision tools to provide a cost-effective, high performance vision solution. Its configurable acquisition system allows users to choose between acquisition/display modules for multiple cameras, color cameras, and large format digital cameras.

The MVS-8110, which features our revolutionary *PatMax*™ object location technology, is designed for demanding guidance, alignment, inspection, and gauging applications.

MMX-Accelerated Vision Tool Library

The MVS-8110's software library is based on Cognex vision technology deployed in over 75,000 vision systems worldwide. The library includes not only low-level host-based image processing functions, but also the broadest range of high level host-based image analysis tools in the industry. These tools are designed to locate objects or patterns, measure geometric properties, and read characters and codes — with reliable, accurate, and repeatable results. The tools are optimized to take advantage of the processing power of the MMX host CPU to deliver the results needed to address today's machine vision applications. For a complete description of the software available for the MVS-8110, consult the *MVS-8000 Product Family Software Overview.*

Advantages

- MMX accelerated grey-scale image processing and image analysis tools provide the highest performance host-based machine vision software available
- Modular image acquisition architecture accommodates a variety of cameras including progressive scan, digital, and RGB color
- Cognex video modules allow quick and easy configuration of the MVS-8110 camera input
- Graphical tool library interface and support for Microsoft Visual Basic and Visual C/C++ compilers under Windows NT provide fast application prototyping and development



The MVS-8110 with Cognex Video Module (CVM) support is a moderate cost frame grabber that supports multichannel, color, and large format acquisition.

Fast Prototyping and Development

The MVS-8110 provides a powerful development interface that allows the user to quickly prototype an application while maintaining access to industry standard Windows NT development tools such as Microsoft Developer's Studio.

This interface, called the Cognex Object Manager Interface, or OMI, is designed with today's object oriented software developers in mind. Using OMI, developers can quickly prototype their application graphically, then integrate the application with their control program or create a custom man-machine interface using Microsoft Visual Basic or Visual C/C++.

The OMI provides a graphical interface to each tool in the library. Every function accessible through the graphical interface is also available as a DLL call. The developer is able to set up each tool graphically, save the system configuration, and write a simple script or use the host application to call the functions through a DLL interface.

A common tool library and development environment enables applications developed on the MVS-8110 to be easily ported to other products in the Cognex MVS-8000 family.

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Modular Image Acquisition Capabilities

Through the use of flexible Cognex Video Modules (CVMs), the MVS-8110 can be configured to meet your application specific acquisition requirements. Individual CVM daughter cards are available for multichannel RS-170 and CCIR analog acquisition, color acquisition, and large format camera support. The system also offers tightly integrated TTL triggering and opto-isolated strobe support.

PCI Bus Machine Vision Frame Grabber

The Cognex MVS-8110 PCI bus machine vision frame grabber is a high performance imaging platform for your host PC. The board is a PCI bus master that provides the industry's fastest image transfer to the host for processing and display. This enables fast vision application operation and a single-monitor man-machine interface.



The MVS-8110's PCI form factor with bus mastering enables high speed image transfer. Cognex video modules support a range of cameras to meet the acquisition requirements of your application.

Hardware Specifications	
Physical Configuration	• Single slot, 32-bit, 5V PCI card - full size (PCI long card) • 4.22" x 12.05" (106.68 mm x 304.86 mm)
Host PC Requirements	• 133MHz Pentium class CPU or greater (MMX required for PatMax software) • PCI VGA display adapter operating in minimum 256 color mode, with support for Direct Draw • One open +5V/32-bit PCI expansion slot (full length required) • Microsoft Windows 95 or NT 4.0 operating system
Memory	• 32MB video memory
Video Input/Output	• RS-170/CCIR cameras: four independent channels • RS-170/CCIR cameras: two independent channels plus monochrome monitor output • RS-422: two single tap or one dual tap large format camera plus one RS-170/CCIR camera
Host-based Display	• PCI bus master • DMA to PC memory or VGA card in parallel with acquisition
Parallel I/O	With direct baseboard connection • Inputs: four fast triggers and four standard TTL • Bi-directional: eight standard TTL • Outputs: four pairs of opto-isolated strobes and eight standard TTL Baseboard isolated, over voltage, and ESD protection for all I/Os via two ½ size ISA breakout cards (optional)
Power Consumption	• +12V@1A maximum • -12V@0.2A maximum • +5V@4A maximum • Dissipates approximately 25 watts
Environmental	• Operating temperature: 10 to 45 degrees C • Humidity: 10 to 90%, non-condensing

COGNEX
Vision for Industry
Corporate Headquarters: One Vision Drive, Natick, MA 01760-2059 tel: (508) 650-3000 fax: (508) 650-3333 www.cognex.com
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