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Find the *Cognex MVS-8100* at our website: ***Click HERE***

Products

PC Vision

- Overview
- VisionPro
- ProofRead
- MVS-8000
  - MVS-8100
  - MVS-8100C
  - MVS-8100L
  - MVS-8120
  - MVS-82400VME
  - MVS-82400/CPCI
  - MVS-82400/PCI
  - MVS-8501
  - MVS-8504
  - MVS-8600
  - FireWire
  - MVS-8000 Software
  - Video Modules (CVMs)
- FiberInspect
- BGA II
- DisplayInspect
- Fiducial Finder II
- SMD4
- PatMax / Vision Tools

Application Evaluation

Have a Cognex Engineer evaluate your machine vision application!

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Library of PDF Downloads!

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MVS-8100

High-Performance PCI Frame Grabber for PC-based Processing

The Cognex MVS-8100 ™ is a PC-based machine vision hardware and software package that combines the power of Intel's MMX instruction set with Cognex's industry leading machine vision software to provide unmatched price and performance in machine vision.

The MVS-8100 is ideally suited for OEMs,system integrators, and advanced manufacturing engineers looking to solve demanding applications in guidance, alignment, inspection, and gauging with a cost effective vision system.

ADVANTAGES

- Features fast image transfer, pipelined processing, and on-board display port
- Provides on-board, automatic light control
- MMX accelerated suite of vision tools provide the highest performance PC-based machine vision software available
- Choice of software development environments

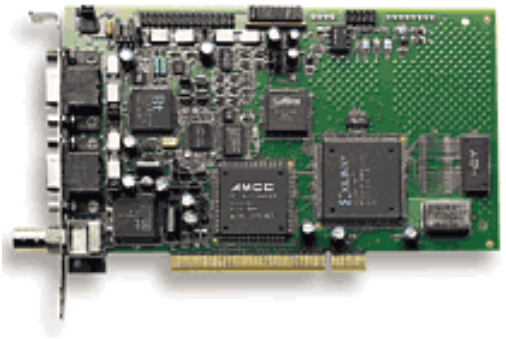
High Speed Image Transfer

The Cognex MVS-8100 PCI frame grabber is a high performance imaging platform for your PC. As a PCI bus master, it provides high-speed image transfer for processing and display, enabling fast vision application operation and a single-monitor operator interface.

The MVS-8100 frame grabber is designed to capture and transfer high-quality grey-scale images from up to four multiplexed RS-170 or CCIR cameras with image formats of up to 640 x 480 (RS-170) and 760 x 570 (CCIR). The board supports rapid reset cameras for high acquisition rates of rapidly moving parts, and non-interlaced progressive scan acquisition of arbitrary numbers of video lines. These enable your application to achieve significantly higher throughput. And, the system provides a high speed opto-isolated triggering and strobe firing interface.

OTHER FEATURES INCLUDE:

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The Cognex MVS-8100 includes a PCI frame grabber and a MMX-accelerated vision software library for high performance PC-based machine vision

Fast image transfer in parallel with acquisition

The 8100 has a unique image transfer control system that ensures that the image captured by the camera is transferred to the PC for analysis as soon as the acquisition is complete. There is no need to wait for transfer of the image from frame grabber memory to the PC. Each acquisition is also stored in the frame grabber's image memory buffer and can be accessed by the PC in the event of image data loss during the transfer operation across the bus.

Direct memory access for acquisition

The 8100 can acquire images directly to multiple pre-allocated buffers in PC memory. One advantage of this feature is the ability to buffer several images in memory prior to processing.

On-board light optimization

The 8100 provides on-board circuitry to control the image formation system. Light type selection and intensity can be automatically controlled in order to optimize the performance of the vision application.

Pipelined processing

For high speed applications, the 8100 provides pipelined processing, whereby an image can be processed at the same time the system is acquiring another image. This feature is essential in time critical applications.

High Performance Vision Tool Library

The MVS-8100's software tools are based on Cognex vision technology deployed in over 200,000 vision systems worldwide. These tools are designed to locate objects or patterns, measure their geometric properties, detect defects, and read characters and codes — with reliable, accurate, and repeatable results. Additionally, these tools have been optimized to take advantage of the processing power of the MMX host CPU. For a complete description of the software available for the MVS-8100, consult the MVS-8000 ™ Product Family Software Overview.

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Software Development Environments

Because there are a wide range of experience levels and development preferences among machine vision developers, Cognex offers a range of software development environments with which to build vision applications.

VisionPro Machine Vision Software Suite

VisionPro ™ is a suite of COM/ActiveX-based machine vision software tools for the Cognex MVS-8100. It combines the power and flexibility of advanced programming, and the ease of development provided by graphical programming environments such as Visual Basic. This enables OEMs and system integrators to quickly develop and deploy powerful machine vision applications. Additionally, the COM/ActiveX-based architecture enables VisionPro applications to easily include third-party components for process control, I/O, and machine control.

CVL Software Developer's Kit

The CVL ® (Cognex Vision Library) Software Developer's Kit enables users to develop powerful, fully customized C++ solutions for a variety of machine vision applications. With CVL, users can modify the sequence of vision processing operations, define custom tools, and link vision tools together. The Developer's Kit also enables users to perform a variety of specialized vision functions such as pixel-level processing and complex image buffering.

Download Data Sheet (124 KB)

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