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Find the *Cognex MVS-8100L* 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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MVS-8100L

Low-Cost PCI Frame Grabber for PC-based Processing



The MVS-8100L is a low-cost PCI frame grabber for PC-based machine vision.

The Cognex MVS-8100L ™ is a low-cost 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.

With the MVS-8100L, you get a high performance PCI bus machine vision frame grabber and a comprehensive vision software library that runs on the host PC's MMX processor. The vision tool library, which includes our revolutionary PatMax ® technology, gives you the broadest choice of object location technology available from any company in the world.

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

High-Speed Image Transfer

The Cognex MVS-8100L PCI frame grabber is a high-performance imaging platform for your host computer. The board is a PCI bus master that provides high speed image transfer to the host for processing and display, enabling fast vision application operation and a single-monitor user interface.

The MVS-8100L 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 574(CCIR).

ADVANTAGES

- PCI bus frame grabber includes unique image transfer control system for tranferring images directly to the host PC in parallel with acquisition.
- MMX acclerated suite of vision tools provide the highest performance host-based machine vision software available.

Other Features Include

Fast image transfer in parallel with acquisition - The 8100L has a unique image transfer control system that ensures that the image captured by the camera is transferred to the host PC for analysis as soon as the acquisition is complete. This way, there is no need to wait for transfer of the image from frame grabber memory to the PC.

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Direct Memory Access for Acquisition - The MVS-8100L can acquire images directly to multiple buffers in PC memory. One advantage of this feature is the ability to buffer several images in memory prior to processing.

Pipelined Processing - For high speed applications, the 8100L 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-Speed Image Transfer

- The MVS-8100L's software tool library is based on Cognex vision technology deployed in over 100,000 vision systems worldwide. The library includes a range of industry-leading image processing and high-level PC-based image analysis tools. These tools are designed to locate objects or patterns, measure their geometric properties, 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 softare available for the MVS-8100L, consult the MVS-8000 ™ Product Family Software Overview.

Interface Provides an Open Development Environment - The MVS-8100L is available with the Cognex Vision Library (CVL) interface, which was designed to offer flexible, low-level Visual C++ access to Cognex vision tools. Vision applications written in C++ and created using the CVL interface are transportable across all members of the MVS-8000 Product Family.

Download Data Sheet (67 KB)

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