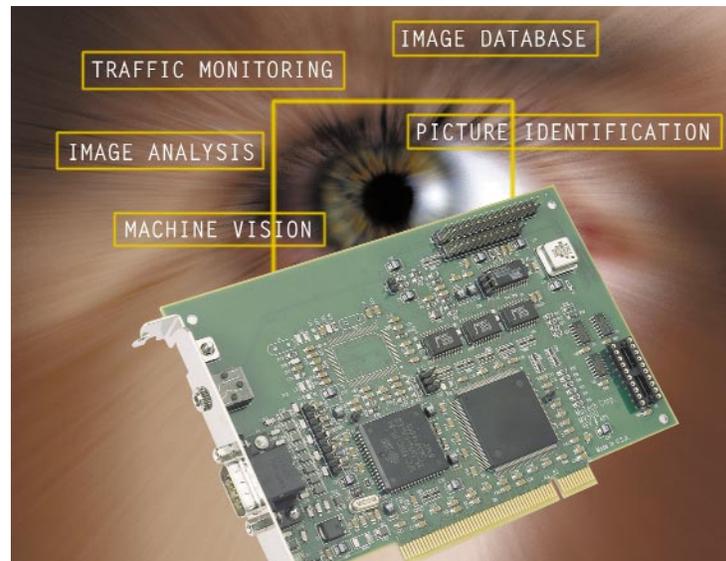


MV-500

M-Vision 500



M-Vision 500 PCI Video Frame Grabber

The M-Vision 500 is a high quality, color/monochrome frame grabber, capable of digitizing video and transferring the digital data to system memory or the VGA display in real time. The M-Vision 500 is a surface mount 1/3 size (160mm) PCI card that captures composite NTSC/PAL, Y/C, or RS-170/CCIR video, as well as, non-interlaced video from progressive scan cameras. A trigger input allows detection of an event and generates an interrupt to grab the video. Video is captured at 30 frames per second (NTSC) or 25 frames per second (PAL).

Host Interface: The M-Vision 500 is PCI 2.1 compliant and transfers data at 132 Mbytes/second over the PCI bus either to system memory or directly to the VGA card. Either way, real time display of the video is shown on the VGA monitor. The M-Vision 500 supports scatter/gather under Windows so that addresses can be generated and stored and one interrupt per field/frame is serviced.

Video Interface Port: The M-Vision 500 has a VESA standard Video Interface Port (VIP) that can connect to a compatible VGA card via a ribbon cable. Video is then passed over the VIP and displayed on the VGA without burdening either the processor or the PCI bus.

Applications

- Security
- Image Data Base
- Identification Systems
- Traffic Monitoring
- Machine Vision
- Image Analysis

Features

- Low Cost
- 132 Mbytes/second master mode transfer
- Scatter/Gather DMA
- 1/3 Size PCI 2.1 compliant board
- Comb filter for high quality color
- NTSC/PAL, S-Video, RS-170/CCIR
- Image mirroring
- Locks to VCRs
- VIP interface to VGA
- I/O trigger, event, strobe
- Software Developers Kit
- TWAIN, MCI Drivers
- CE Compliant
- Interpolated non-integer ratio scaling
- +12V camera power

MIV-500

M-Vision 500

Display Video and Graphics Mixing: Real time video can be displayed on the computers VGA screen at 30 fps (25 fps for PAL) or 60 fields per second (50 fields/second for PAL) either by transferring to system memory and then moving the data to the VGA, or by moving the data over the PCI bus directly to the VGA, or by sending the data over the Video Interface Port. Non-destructive graphic overlays can be done using Direct Draw or by using the VIP directly to the VGA in real time.

External I/O: The M-Vision 500 accepts two TTL level signals for trigger and event, generates an interrupt and immediately grabs the next field/frame. A programmable TTL output can be used to control a strobe or camera integration.

Software: All boards come with a software utility under DOS, Win 3.x, Win 95/98, Win NT allowing the user to grab, display, freeze, save (as .tif, .tga, or .bmp), or recall images. TWAIN and MCI drivers are provided for Win 95/98 and NT. A Software Developer's Kit is available allowing control of all board functions. DirectDraw is fully supported for display and overlay of text and graphics.

SPECIFICATIONS: M-Vision 500

Video Input

- NTSC/PAL, RS-170/CCIR, S-Video (Y/C)
- 3 composite, 1 S-Video, software selectable
- Locks to VCRs
- Square pixel 640x480 or 768x576
- Interlaced/Progressive scan
- Programmable Gain, Offset
- DB-15 HD male connector

I/O Controls

- Two TTL inputs (Event/Trigger) w/interrupts
- One software controlled TTL output for strobe/camera control
- Power: + 12V @ 500 ma provided

Host Interface

- PCI 2.1 compliant
- 132 Mbytes/second transfer to system memory or VGA
- Scatter/gather DMA
- Video Format: RGB 555, RGB 565, RGB 888, YUV 4:2:2, Y8 monochrome
- I2C interface
- Interrupts for end of frame/field, trigger, and event inputs
- Interpolated scaling in x and/or y directions
- Cropping for ROI processing

Video and Graphics

- VIP(VPE) interface to VGA
- Real time display with VGA card
- DirectDraw fully supported

Specifications subject to change without notice

