TEK-380 VIPerVision
Multimedia Video Module

teknor
a p p l i c o m
A Kontron Company
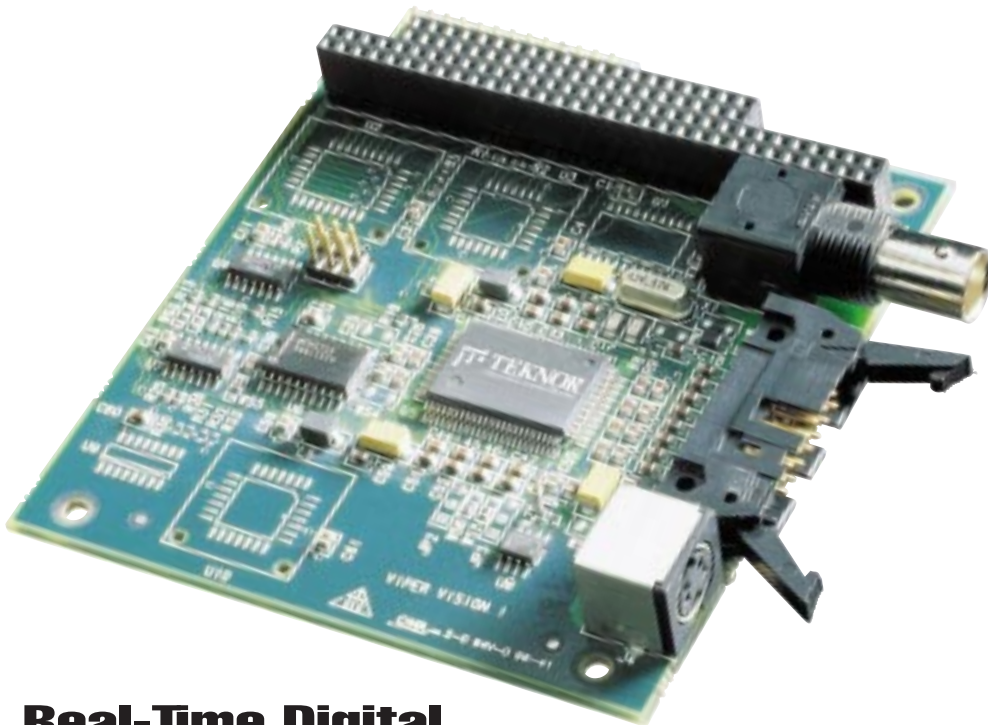
Real-Time Digital
Video Image Processing

The TEK-380 VIPerVision interfaces automatically to various video standards, with stunning quality, for noise-free video display and capture applications. You get up to 6 composite or 3 S-video inputs, NTSC, PAL and SECAM compatibility; hue, saturation, brightness and contrast control; real-time image re-sizing, on-screen positioning and more – all on industry-standard PC/104 form factor.

Best of all, the TEK-380 VIPerVision uses Teknor's VIPer industrial single board computers' internal video circuitry to produce full real-time video without

burdening the system bus for additional bandwidth. So the entire system runs at maximum capacity all the time. No other video system in its class does that!

If you design next generation automated shop floor equipment, video surveillance systems, electronic kiosks, or video conferencing equipment, you simply can't do without the TEK-380 VIPerVision image processing solution. It's the only high-quality real-time digital video interface for multimedia-rich applications.
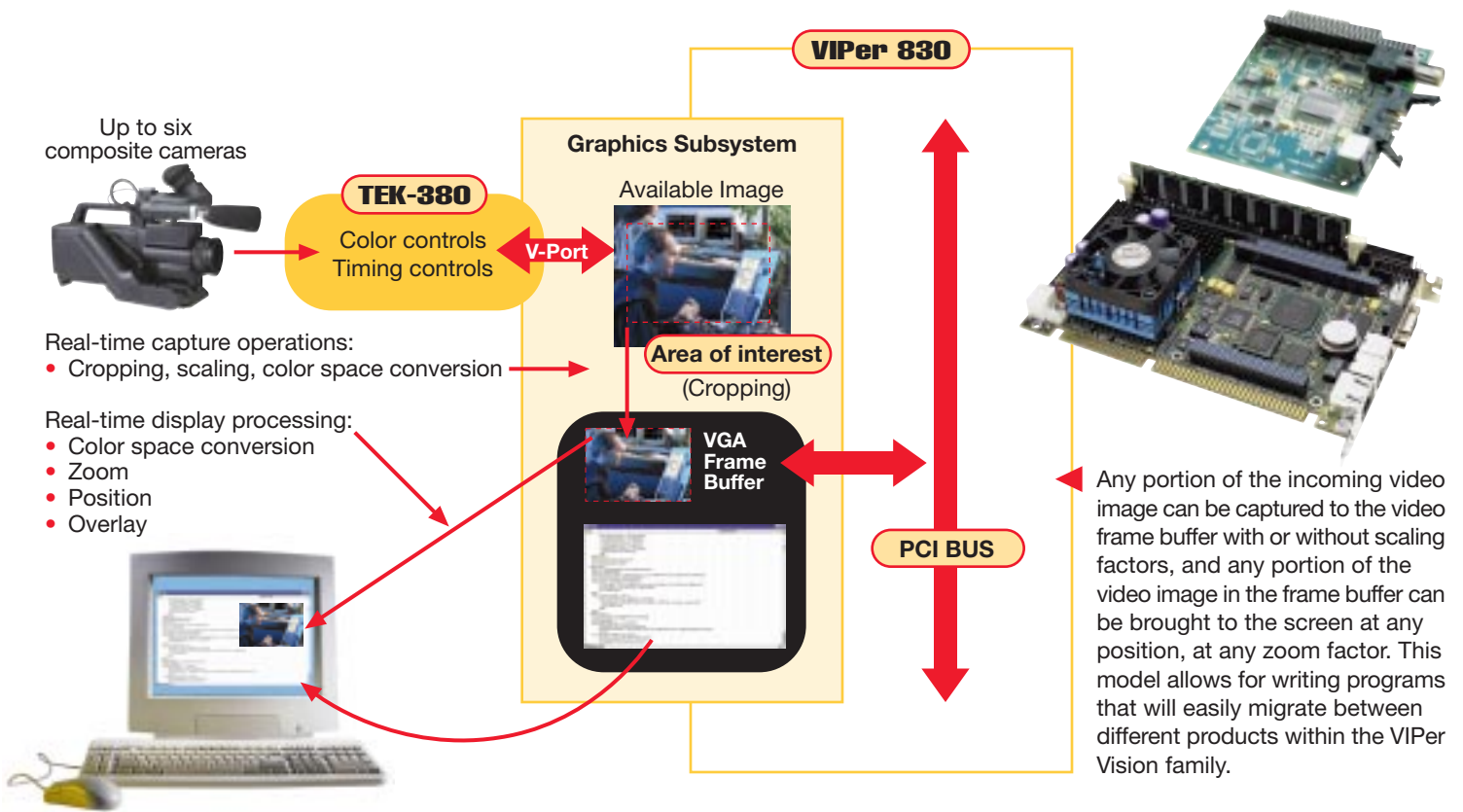
The TEK-380 VIPerVision from Teknor delivers the most complete and compact real-time digital imaging solution for today's demanding applied computing applications.

Features include:

- **Real-time video imaging and video capture**
- **High-quality video output to LCDs and CRTs**
- **Off-loads CPU in real-time video mode to maximize system performance**
- **6 composite or 3 S-video input multiplexer**
- **Full graphics and video overlay capabilities are available with specific boards**
- **NTSC, PAL & SECAM compatible formats**
- **CCIR or square pixels for easier image processing**
- **Full display controls: saturation, hue, brightness and contrast**
- **Real-time on-screen image resizing and positioning across all resolutions and color depths**
- **Linear zooming with interpolation for smoother edges**
- **Full cropping control prior to capture**
- **Ability to save captured images to disk**
- **Teknor software drivers available for DOS and Windows.**
- **Compact PC/104 footprint for embedded applications**
- **Vertical sync interrupts are available for noise-free parameter changes**

TEK-380 VIPerVision

Real-Time Digital Video Image Processing

VIPer 830

Up to six composite cameras

TEK-380
Color controls
Timing controls

V-Port

Graphics Subsystem

Available Image

Area of interest
(Cropping)

VGA Frame Buffer

PCI BUS

Real-time capture operations:
• Cropping, scaling, color space conversion

Real-time display processing:
• Color space conversion
• Zoom
• Position
• Overlay

Any portion of the incoming video image can be captured to the video frame buffer with or without scaling factors, and any portion of the video image in the frame buffer can be brought to the screen at any position, at any zoom factor. This model allows for writing programs that will easily migrate between different products within the VIPer Vision family.

TEK-380 VIPerVision - Technical Spacifications

Free-air Operating Temperature
• 0 to 70ºC

Storage Temperature
• -62 to +100ºC

Non Condensing Relative Humidity
• 0% to 95%

Electrical
• 5 volts ± 5% at 450 mA max

BUS Interface
• CCIR-656 Digital video bus, PC for control

Power
• Available through PC/104 header

Video Inputs
• One BNC for composite and one, 4-pin mini DIN for S-Video inputs
• One 16-pin header for multiple video sources

Video Outputs
• 26-pin female socket header (to mate with VIPer SBCs)

Mechanical
• 90.17mm by 103.37mm
• 3.550in. by 4.070in.

MTBF
• > 276,000 hours

Warranty Period
• 2 years

PICMG PCI INDUSTRIAL COMPUTERS

PC/104-Plus EMBEDDED-PC MODULES

Intel® **Applied Computing Platform Provider**

ISO 9000 CERTIFIED

CE

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Teknor Applicom helps customers speed to market with applied computing solutions featuring single board computers, integrated systems and software specifically designed for Telecommunications, Internet, Industrial Automation, Mobile Computing and all types of high speed, high availability applications.

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