

# **VisioWave PCI-1 Video Board**



## **Professional PCI Video Codec Board**

*PCI video codec board providing real-time capture, processing, encoding or decoding of high quality full rate and full resolution video.*

*VisioWave is offering complete and integrated security solutions including centralized configuration and management, high quality and high performance distributed video switching through an effective and optimized usage of any IP or ATM network, intelligent storage features, support for telemetry, alarm management and high level graphic user interfaces.*

*Designed for digital video networking applications and OEMs, the VisioWave PCI-1 Video Codec Board delivers real-time capture, compression and playback of video signals with remarkably high quality at all compression ratios.*

*Based on new generation wavelets video compression technology, block pixelisation and artifacts are eliminated. Image storage and bandwidth requirements are three to ten times more efficient than other compression technologies.*

*It is an ideal solution for professional cost sensitive applications requiring ease of use, precision, scalability and error tolerance of compressed data.*

## **Product highlights**

- Ultra-short size 32-bit PCI local bus
- Plug-n-Play compliant
- Real-time capture or playback of analog video streams
- On board compression/decompression of CCIR-601 full motion video
- Composite and Y/C (S-VHS) video interfaces
- Video port can be configured as video input or video output
- PAL, NTSC full field and frame resolutions
- Wavelet based compression technology with low latency and bandwidth
- Flexible and dynamic bandwidth control to adapt and fit any criteria
- Compression ratios from 4:1 to 250:1
- Visually loss-less compression at 4 Mbps
- Field independent compression
- Precise compressed bit rate control
- User selectable compression ratio
- Constant bit rate or constant quality video
- Total compatibility with VisioWave Security Software Modules

### Wavelets compression technology

VisioWave's wavelets compression technology allows to compress full-format color video streams in real-time. Wavelets compression scheme is one of the latest discoveries in mathematics for signal processing. It has proved to be the best method for compression of still images and motion video. Wavelets compress video with higher quality and less bandwidth than any other compression technology.

### System requirements

Total compatibility with VisioWave Power Plus Digital Video Equipment and Security SDK (see product brief).

#### For OEMs, engineering developments or consumer use :

- IBM® compatible PC
- Pentium III 300 MHz processor or higher
- 128 Mbytes RAM or more
- Driver for Microsoft® Windows 2000
- PCI or AGP video board and SVGA monitor
- 100 or 1000 Mbps Ethernet network adapter board
- 155 or 622 Mbps ATM Network adapter board
- Hard disk drive
- CD-ROM drive

### Technical specifications

#### Video format and resolution

- Full motion CCIR-601 analog video
- PAL (720x576 @ 50fps)
- NTSC (720x486 @ 60fps)

#### Input/Output

- 2 composite video BNCs - 75 Ω
- 2 Mini-DIN connectors for S-VHS

#### Bus

- PCI-32 bits
- Ultra-short PCI form factor  
125mm x 106mm (5"x6,6")
- Power 5V @1.2A

#### Video compression

- Wavelet compression
- Low latency less than 100 ms
- Adjustable bandwidth: 1 - 25 Mbps
- Visually loss-less at 4 Mbps

### Electromagnetic compatibility (EMC) notices

#### USA

This equipment has been tested and found to comply with the limits for Class A computing device pursuant to Subpart B of part 15 of FCC rules.

#### Europe CE

This digital equipment fulfils the requirements for radiated emission according to limit B of EN55022/1987, and the requirements for immunity according to EN50082-1/1992 residential, commercial, and industry.



## Contact and ordering information



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