VisioWave Power Plus

Professional Digital Video Equipments for security applications

Flexible and modular Digital Video Equipment for video security applications over IP or ATM networks. Up to ten simultaneous, high quality and independent analog video ports.

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 networks, intelligent storage features, support for telemetry, alarm management and high level graphic user interfaces.

VisioWave Power Plus Digital Video Equipment is a professional rack-mounted video encoder/decoder designed for the VisioWave PCI-1 Video Codec Boards, providing PAL or NTSC professional quality video. Offering up to 10 video ports, Power Plus fits any appropriate number of video ports and video networked architecture.

Running the VisioWave Video Operating System™, VisioWave Power Plus is the most cost effective professional solutions for any security applications.

Product highlights

VisioWave Power Plus

- Industrial 4U-19" rack-mounted enclosure
- Up to ten slots for VisioWave PCI-1 video codec boards or optional modules
- Front access to all video ports and connectors
- Powerful CPU motherboard with Ethernet 10/100 base TX ports
- Support for Ethernet/IP or ATM networks Quality of Service
- Integrated serial ports for PTZ camera remote control
- EIDE interface for embedded storage hard disk
- Mouse, keyboard, VGA and double USB port
- Remote web based administration tools
- Integrated security through login and password
- Total compatibility with VisioWave Surveillance SoftwareModules
- Optional ATM 155, serial, and digital I/O modules
- Optional SCSI interface for connection to VisioWave HQI RAID Storage Module

VisioWave PCI-1 Video Codec Board

- Composite and Y/C (S-VHS) video interfaces for one video port
- Wavelet based compression for low bandwidth and latency
- Field independent compression
- Real-time compression/decompression of CCIR-601 full motion analog video
- PAL, NTSC full field and frame resolutions
- Visually loss-less compression at 4 Mbps
- Compression ratios from 4:1 to 250:1
- Flexible and dynamic bandwidth control
- User selectable compression ratio
- Precise compressed bit rate control

VisioWave
Security Solutions

Physical

Industrial PCI standard with front access to video ports. Anti-vibration and clamping

Power supply
- Standard AT/ATX

Cooling device
- 3 hot-removing fans

Dimensions
- 19"-4U with 10 PCI slots
- 431 (W) x 176(H) x 454,7 (D) mm
- Weight: 16 kg

Temperature
- Operating: 0°C - 35°C
- Storage: -20°C - 60°C

Conformity
- EMC 89/336/EEC
- Low Voltage 72/23/EEC
- Safety EN60950 - IEC950
- FCC Class A – Subpart B of part 15

MTBF 100.000 hours @ 25°C

System administration

Administration software
- Web based remote administration application, password protected.
- Total compatibility with VisioWave Security Software Modules and SDKs (See product brief)

CPU Control Board

- Intel® Pentium III processor
- Microsoft® Windows 2000
- Ethernet 100 BaseTX ports
- EIDE interfaces for local disks
- RS232 serial port for PTZ camera remote control functions
- Double USB port
- SVGA output for display
- Mouse and keyboard connectors
- Rear I/O board for CPU board

VisioWave PCI-1 Video Board

Video format and resolution
- Full motion CCIR-601analog 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 / 33MHz @ 5V
- 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

Networking - Quality of Service

- Embedded Ethernet 10/100 BaseTX ports
  • IP multicast and UDP unicast support
  • Ethernet/IP Class of Service support (802.1p, RSVP and DiffServ)
- ATM 155 OC-3 optional module (MMF or UTP)
  • ATM SVC multicast UBR/CBR
  • SVC unicast UBR/CBR/VBR-nrt

Hardware optional modules

ATM 155 OC-3 (MMF or UTP)

Serial RS232/RS422 and RS485 board

I/O board for alarm handling with 8 opto-isolated inputs and 8 relays output

EIDE embedded storage hard disk (one disk max.)

SCSI-RAID storage unit up to 8 hard disks

Contact and ordering information

VisioWave®

VisioWave Headquarters

Victoria House
Route de la Pierre, 22
1024 Ecublens
Switzerland
Tel. +41 (0)21 695 00 00
Fax +41 (0)21 695 00 01

Internet
www.visiowave.com

E-Mail
info@visiowave.com