H.264 Video/Audio Real-Time Compression

VIDEO SECURITY PACKAGE (VSP) VE-4000HCI-VSP

FEATURES

- H.264 (MPEG4 Part 10) hardware video compression
- OggVorbis audio compression with 16KHz sampling and output rate
- Real-time video compression with no loss of frames
- 4CIF preview resolution
- Expandable 4-64 video channels
- Fully configurable recording
- Fully configurable streaming
- Flexible event management system
- Unique video over HTTP facility
- Integrated CD and DVD burning engine
- Support for pan, tilt and zoom
- Integrated web-server
- Biometric security support option (fingerprint authentication)
- Multiple hard disk control
- Streaming of live JPEG

DESCRIPTION

The *Vision-Eye* Video Server Package (VE-4000HCI-VSP) bundles the DS-4000HCI H.264 PCI encoders with the new Video Server Software (VSS), which includes PC-DVR function; flexible event management; video over HTTP; pan, tilt and zoom; remote control; streaming of JPEG and much more.

Powerful, state-of-the-art hardware-based H.264 video encoding, with OggVorbis audio resulting in smaller file sizes, lower network bandwidth usage and better-quality footage than older technologies such as MPEG2 and MPEG4.

Fully-configurable motion-detect recording with multiple detection zones, adjustable sensitivity and day/night motion compensation.

Fully configurable recording and streaming properties. Choose from ultra-low-bandwidth QCIF (176x288) video, right up to high-quality, full-motion (25fps PAL/30fps NTSC), full D1 (704x576) quality video at up to 4Mb/sec. All cameras can be configured to record at one rate, stream across a network at another, and provide motion-jpeg images simultaneously.

A flexible event-management system allows you to configure any number of actions to take place whenever a pre-determined event occurs. Send e-mail containing JPEG snapshots or video/audio footage, play sounds or music files, or run programs whenever a given event occurs.

Integrated biometric support. Log on to the server using fingerprint authentication. USB fingerprint devices from Digent and Suprema are currently supported.

Integrated web-server. Manage your DVR Server remotely from any computer with a web-browser. View live or recorded video from Internet Explorer using ActiveX technology, or view live motion-jpeg video from any platform (Mac OS X, Mozilla Firefox under Windows and Linux, Internet Explorer under Windows).

Unique Video-over-HTTP facility. Using our freely-distributable ActiveX control for Internet Explorer, live video can be streamed over a standard HTTP connection. This allows seamless video transport across the vast majority of corporate firewalls and proxy servers without invoking complex configuration issues.

Integrated CD and DVD burning engine. A CD or DVD can be created with four clicks of the mouse, entirely from within the server application ready for playback on any Windows PC.

Full computer-controlled support for Pan, Tilt and Zoom cameras using standard RS232, RS422 or RS485 protocols.

Control hard disk consumption and storage across up to 8 separate hard disk partitions or network drives. Specify whether to stop
recording, or automatically overwrite oldest stored footage when a disk becomes full or reaches a pre-determined volume.

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HARDWARE SPECIFICATION

Video Input:	DS-4004HCI: 4 channels (PAL/NTSC), BNC, Vp-p=1.0V, 75W
	DS-4008HCI: 8 channels (PAL/NTSC), BNC, Vp-p=1.0V, 75W
	DS-4016HCSI: 16 channels (PAL/NTSC), BNC, Vp-p=1.0V, 75W
Audio Input:	DS-4004HCI: 4 channels, BNC, Vp-p=2.0V, SNR>83db, Linear electrical level, 1000W
	DS-4008HCI: 8 channels, BNC, Vp-p=2.0V, SNR>83db, Linear electrical level, 1000W
	DS-4016HCSI: 16 channels, BNC, Vp-p=2.0V, SNR>83db, Linear electrical level, 1000W
Preview Resolution:	04x576(PAL), 704x480(NTSC)
Video Compression:	H.264. Support CBR and VBR
Video Resolution:	CIF 704x576(PAL)/704x480(NTSC), DCIF 528x384(PAL)/528x320(NTSC), 2CIF 704x288(PAL)/704x240(NTSC), CIF 352x288(PAL)/352x240(NTSC), QCIF 176x144(PAL)/176x120(NTSC)
Record Frame Rate:	DS-4004HCI: 50F/S(PAL), 60F/S(NTSC) in 4CIF 100F/S(PAL), 120/FS(NTSC) in 2CIF/DCIF/CIF/QCIF
	DS-4008HCI: 100F/S(PAL), 120F/S(NTSC) in4CIF 200F/S(PAL), 204/FS(NTSC) in 2CIF/DCIF/CIF/QCIF
	DS-4016HCSI: 25F/S(PAL), 30F/S(NTSC) in QCIF/CIF
Video Bit Rate:	32kbps – 1000 kbps (CIF), 70kbps – 4000kbps (4CIF)
Audio Compression:	OggVorbis, 16KHz sampling rate, 16kbps output bit rate
Power Consumption:	DS-4004HCI: 3.5W
	DS-4008HCI: 7W
	DS-4016HCSI: Less than 18W
Working Temperature:	-10°C to 50°C (14°F to 122°F)
Working Humidity:	10% to 90%
Dimensions:	152mm x 95mm (6.00" x 3.75")
Compliance:	Complies with PCI 2.2 standard

SOFTWARE SPECIFICATION

- H.264 (MPEG4 Part 10) video compression standard leads to a high compression ratio and excellent video quality
- OggVorbis audio compression standard with 16KHz sampling rate and 16kbps output bit rate
- Supports Windows 2000/2003/XP and up to 64 channels in a system
- Adjustable brightness, contrast, saturation and hue of video signal
- Real time video and audio compression with no frame loss
- Record in 4CIF/DCIF/2CIF/CIF resolution
- Adjustable video quality and bit rate
- Adjustable I.B.P. frame sequence
- Fully configurable motion detection
  - multiple zones
  - sensitivity control
  - day/night compensation
- 4CIF preview resolution
- View live or recorded video
- Video-over-HTTP facility
- Integrated web server
- View live JPEG video from any platform
- Remote management using web-browser
- Integrated CD and DVD burning engine
- Fully configurable recording and streaming
- Ultra low bandwidth to full D1 and 4Mb/sec
- Select different parameters for each camera
- Flexible event management system
  - configure multiple actions on predetermined events
  - send emails with JPEG map shots or video/audio footage
  - start other programmes
- Live streaming of video over standard HTTP connection using ActiveX control
  - seamless video transport across most firewalls and proxy servers
- Built in user security using passwords or optional fingerprint authentication
- Computer controlled Pan, Tilt and Zoom using RS232, RS422 or RS485 protocols
- All cameras can be configured to record at one rate, streamed at another and provide motion-jpeg images

ORDERING INFORMATION

VE-4004HCI-VSP: 4 channel PCI Card and Software
VE-4008HCI-VSP: 8 channel PCI Card and Software
VE-4016HCI-VSP: 16 channel PCI Card and Software
VE-4004HCI-VSS: Video Server Software only (4 channel)
VE-4008HCI-VSS: Video Server Software only (8 channel)
VE-4016HCI-VSS: Video Server Software only (16 channel)