

Spec of DS-4000HCI Series Card

Introduction

DS-4000HCI series cards are top-quality hardware compression cards with the most advanced H.264 video compression algorithm and OggVorbis audio compression technology. These cards support real-time preview & recording for each channel, and recording and playback video with QCIF / CIF / 2CIF / DCIF / 4CIF resolution.

DS-4000HCI series cards utilize a fully optimized algorithm based on DSP technology to implement video & audio real-time encoding and motion detection, significantly saving computer processor resources. As a result, one normal PC can support up to 64 channels Video and audio input, parameters of each channel can be configured independently.

Models

DS-4004HCI: 4-ch video & audio input, 100 F/S (PAL) or 120F/S (NTSC)

Support resolution: 4-ch CIF (real-time), or 2-ch D1 (real-time), or 2-ch 2CIF (real-time), or 1-ch D1 (real-time) & 3-ch CIF (real-time), or 4-ch D1 (not real-time)

DS-4008HCI: 8-ch video & audio input, 200 F/S (PAL) or 240F/S (NTSC)

Support resolution: 8-ch CIF (real-time), or 4-ch D1 (real-time), or 8-ch 2CIF (real-time), or 2-ch D1 (real-time) & 6-ch CIF (real-time), 8-ch D1 (not real-time)

DS-4016HCI: 16-ch video & audio input, 400 F/S (PAL) or 480F/S (NTSC)

Support resolution: 16-ch CIF (real-time), or 16-ch 2CIF (real-time), or 8-ch D1 (real-time), or 16-ch D1 (not real-time)



DS-4004HCI



DS-4008HCI

Outstanding features

- Support up to 64 channels real-time preview & recording in one PC
- With advanced H.264 technology, experience 40% higher image quality and over 60% of saving on recording storage space

Main functions

- Each video channel can be compressed independently in 25F/S (PAL) or 30F/S (NTSC). Both variable bit-rate and variable frame rate are supported
- Each audio channel can be compressed independently, using an OggVorbis audio standard. The output bit-rate is 16 kbps
- The output video and audio streams are integrated to generate the synchronized H.264 stream. Video and audio coincide with each other from beginning to end when the stream is played back
- Supports following resolution:
PAL:4CIF (704x576), DCIF(528x384), 2CIF(704x288),CIF(352x288), QCIF(176x144)
NTSC:4CIF(704x480),DCIF(528x320),2CIF(704x240),CIF(352x240), QCIF(176x120)
- Supports dual stream mode, ensuring fluent remote preview & recording performance
- Supports multi-zone motion detection
- Supports position configurable OSD & LOGO
- Supports digital watermark
- Supports partial zone sheltering
- Supports independent configuration of video quality and frame rate for each channel
- Supports independent configuration of brightness, contrast, saturation and hue of Video signal for each channel

Specification

Model	DS-4004HCI	DS-4008HCI	DS-4016HCI
Video Input	4 (PAL/NTSC)	8 (PAL/NTSC)	16 (PAL/NTSC)
Video Interface	BNC(Vp-p = 1.0V, 75Ω)		
Audio Input	4	8	16
Audio Interface	BNC(Vp-p=2.0V,SNR > 83DB,Linear Electrical Level,1000Ω)		
Encode DSP number	1	2	4
Preview Resolution	Resolution: 704*576(PAL),704*480(NTSC)		
Video Compression	H.264, Support CBR, VBR; Frame rate: 25F/s(PAL),30F/s(NTSC) Output: 32kbps-1000kbps(CIF) or 70kbps-2000kbps(4CIF)		
Compression Resolution	4CIF:704*576(PAL), 704*480(NTSC) DCIF:528*384(PAL), 528*320(NTSC) 2CIF:704*288(PAL), 704*240(NTSC) CIF:352*288(PAL), 352*240(NTSC) QCIF:176*144(PAL), 176*120(NTSC)		
Audio Compression	OggVorbis, Sample ratio is 16KHz, Output ratio is 16kbps		
Power Consumption	Less than 3.5W	Less than 7W	Less than 22W
Working Temperature	-10°C--+50°C		
Working Humidity	10%-90%		
Dimension	155mm*95mm	185mm*107mm	250mm*106mm

System Requirements	OS: Windows 2000/XP/Server 2003, Redhat 9.0, Fedora 3, Fedora 4 CPU: Intel Series Motherboard: based on Intel 845 / 865 /915/925/945/965 Chipset Memory: 256MB or above Display Adapter: Nvidia Geforce Mx400/420/440 serials, FX 5200/5600 GeForce 6600 ATI Radeon 7000/7500/8500/9000/9200/9550/9600 ATI X300/X550/X700/X1300/X1600 Intel 845G/865G/915G integrated Graphics Controller
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