



DS-8000HCI-S Series Net DVR Technical Manual



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1. Overview

DS-8000HCI-S series Network Digital video Recorder is an excellent digital surveillance product adopts embedded MCU (Microprocessor Control Unit) and an embedded Real-Time Operating System (RTOS), along with the most advanced technology in the Information technology Industry such as video and audio encoding/decoding, hard disk recording and TCP/IP transmission. The firmware is burned into the flash, making it more stable and reliable than software programs running from a standard disk drive.

DS-8000HCI-S series combines the advantages of Digital Video Recorder (DVR) and Digital Video Server (DVS). It is widely applied as a stand-alone unit or a part of a powerful surveillance system.



Front Panel

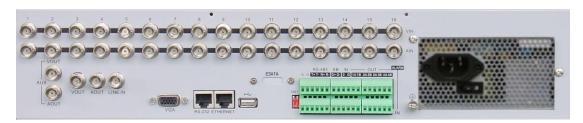


DS-8004HCI-S Rear Panel



DS-8008HCI-S Rear Panel





DS-8016HCI-S Rear Panel



2. Model Description

DS-8004HCI-S: 4-ch video input and 4-ch audio input. Each channel can max support CIF encoding resolution real time. It supports 4 SATA interfaces, no aux video/audio output

DS-8008HCI-S: 8-ch video input and 8-ch audio input. Each channel can max support CIF encoding resolution real time. It supports 8 SATA interfaces

DS-8016HCI-S: 16-ch video input and 16-ch audio input. Each channel can max support CIF encoding resolution real time. It supports 8 SATA interfaces

Note: 1. The default DVRs are without HDD or CD-R/W.

2. A factory recommended HDD should be used for this device.



3. Features

3.1 Compression:

- Support up to 16 video channels (NTSC/PAL). Each channel is independent with H.264 hardware compression in real time (NTSC: 30FPS, PAL: 25FPS).
- Support both variable bit rate and frame rate
- Support up to 16 channels audio input channels. Each channel is independent with OggVorbis at a bit rate of 16Kbps
- Compressed video and audio are synchronous. Either composited stream (video and audio) or video-only can be selected.
- Support 4CIF, DCIF, 2CIF, CIF and QCIF resolution.
- Support multi-area motion detection
- Support OSD and changeable OSD position

3.2 Local functions:

3.2.1 Recording:

- Support multiple recording types, including schedule recording, manual recording, motion detection, external alarm, motion & alarm and motion | alarm, etc.
- Support up to 8 HDDs. Each HDD can support 2000GB maximum.
- Support FAT32 file system
- Support NAS Recording.
- Support Event Recording Para. Setup.
- Support HDD S.M.A.R.T technology
- Support continuous (overwrite) and linear (stop when full) record modes
- Support backup recorded files and video/audio clips with USB memory stick (thumb drive), USB HDD, USB CD-R/W, USB DVD-R/W or SATA HDD.

3.2.2 Preview and playback:

- Support BNC analog monitor and VGA output for main output
- Support one spot video and spot audio output
- Support multiple live view modes
- Support Privacy Mask
- Support camera block alert.
- Support video signal loss alert.
- Support 2-ch synchronous playback.
- Support play forward, backward, pause, frame-by-frame, etc.
- Support play back by files or by time/date
- Displays local record status



3.2.3 PTZ:

- Support multiple PTZ protocols
- Support preset, sequence and cruise

3.2.4 Alarms:

• Support exception alarm, motion detection alarm, external alarm, etc

3.3 Miscellaneous:

- Support IR Remote control
- Support RS-485 keyboard
- Support multi-level user management
- Support Mouse Operation Menu.
- Support multiple upgrade modes, including FTP, USB and CD.

3.4 Network:

- Support Advanced Network Function: NTP, DDNS and E-mail.
- Support TCP, UDP, RTP, Multicast for network viewing
- Support PPPoE for broad band dialup
- Support PSTN for standard dialup
- Support remote parameters setup
- Alarm information can be sent to remote center
- Network control PTZ
- Network video/audio recording
- Network download and playback recorded files from the DVR
- Remote upgrading DVR firmware
- RS-232 supports transparent channel function
- Support bi-directional audio or one-way audio broadcast
- Support IE preview and configuration
- Support SADP protocol
- Support remote log query

3.5 Development support:

- Provide network SDK (Software Development Kit)
- Provide client demo source code



4. Specifications

Model	DS-8004HCI-S	DS-8008HCI-S	DS-8016HCI-S	
Video				
compression	H.264			
Preview	4CIF (DAL : 704*F7C NTCC: 704*400)			
resolution	4CIF (PAL: 704*576, NTSC: 704*480)			
Playback	QCIF/CIF/2CIF/DCIF/4CIF			
resolution	QCII/CII/2CII/DCII/4CII			
Synchronous	2-ch	2-ch 1-ch		
playback	2 3			
Video input	4	8	16	
Video input	BNC (1.0Vp-p, 75Ω)			
interface	2.10 (1.01p p) +011)			
Main video	1 channel, BNC (1.0Vp-p, 75Ω)			
output			•	
Aux video	No	1 channel, BNC	(1.0Vp-p, 75Ω)	
output				
	4CIF: 6fps DCIF: 8fps 2CIF: 12fps			
Frame rate (per				
channel)				
Strong turns	CIF: 25(P)/30(N) fps			
Stream type	Video/ Video&Audio			
Support dual stream	Yes			
Bit rate	32Kbps~2Mbps, user-defined (Max 8Mbps)			
Audio input	4	8	16	
Audio input			10	
interface	BNC (2.0Vp-p, $1k\Omega$)			
Main audio				
output	1 channel, BNC (Linear Electrical Level, 600Ω)			
Aux audio	NI-	1 channel, BNC (Lin	channel, BNC (Linear Electrical Level,	
output	Νο 600Ω)		ΟΩ)	
Audio				
compression	OggVorbis, 16Kbps			
Voice talk	1 channel, BNC (2.0Vp-p, 1KΩ)			
Communication	1 RJ45 10M/100M Adaptive Ethernet Interface			
interface	1 RJ45 RS-232 Port			
RS-485 Port	1 Port (T+, T-, R+, R-)			
Keyboard	2 RJ45	1 Port (D+, D-)	



interface			
іптегтасе			
SATA interface	4 SATA interfaces,	8 SATA interfaces, max support 8 SATA	
	max support 4 SATA	HDDs, or 4 SATA HDDs with 1 SATA	
	HDDs. Each HDD	DVD-R/W. Each HDD can max support	
	can max support	2000GB	
	2000GB		
USB interface	1 USB interface, can support USB disk, USB HDD, USB		
	DVD-R/W and CD-R/W		
VGA interface	1 VGA interface, support resolution: 800*600/60Hz,		
	1024*768/60Hz, 1280×1024/60Hz		
External alarm	4.		
in	4	16	
Relay output	2	4	
Power supply	100~240VAC, 6.3A, 50~60Hz		
Power	(70W ('II		
consumption	≤70W (without HDD or DVD-R/W)		
Working	-10℃ ~ +55℃		
temperature			
Working	10% ~ 90%		
humidity			
Size	470mm(D)*441mm(W)*90mm(H)		
Weight	≤ 8Kg (without HDD or DVD-R/W)		

PAL: 176×144(QCIF), 352×288(CIF), 704×288(2CIF), 528×384(DCIF), 704×576(4CIF); NTSC: 176×120(QCIF), 352×240(CIF), 704×240(2CIF), 528×320(DCIF), 704×480(4CIF).