



**DS-8000HSI-S Series Net DVR**  
**Technical Manual**

## Notices

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## 1. Overview

DS-8000HSI-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 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-8000HSI-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-8004HSI-S Rear Panel



DS-8008HSI-S Rear Panel



**DS-8016HSI-S Rear Panel**

## 2. Model Description

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**DS-8004HSI-S:** 4-ch video input and 4-ch video loop out. No audio input. Each channel can max support CIF encoding resolution real time. It has 4 SATA interfaces.

**DS-8008HSI-S:** 8-ch video input and 8-ch video loop out. No audio input. Each channel can max support CIF encoding resolution real time. It has 8 SATA interfaces.

**DS-8016HSI-S:** 16-ch video input and 16-ch video loop out. No audio input. Each channel can max support CIF encoding resolution real time. It has 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**

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### **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 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 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 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 multiple live view modes
- Support video loop output.
- Support Privacy Mask
- Support view tampering alert.
- Support video signal loss alert.
- 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 download and playback recorded files from the DVR
- RS-232 supports transparent channel function
- 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-8004HSI-S	DS-8008HSI-S	DS-8016HSI-S
Video standard	H.264		
Preview resolution	4CIF (PAL: 704*576, NTSC: 704*480)		
Playback resolution (PAL/NTSC)	4CIF/DCIF/2CIF/CIF/QCIF	2CIF/CIF/QCIF	
Video input	4	8	16
Video input interface	BNC (1.0Vp-p, 75Ω)		
Video loop output	4	8	16
Video output	1 channel, BNC (1.0Vp-p, 75Ω)		
Frame rate (per channel)	4CIF: 8fps DCIF: 8fps 2CIF: 15fps CIF: 25(P)/30(N) fps	2CIF: 8fps CIF: 25(P)/30(N) fps	
Stream type	Video		
Bit rate	32Kbps~2Mbps, user-defined (Max. 8Mbps)		
Communication interface	1 RJ45 10M/100M Adaptive Ethernet Interface		
RS-232 Port	1 RJ45 RS-232 port		
PTZ control	1 RS-485 port (T+, T-, R+, R-)		
Keyboard interface	2 RJ45 ports	1 port (D+, D-)	
SATA interface	4	8	
E-SATA (optional)	1 <sup>st</sup> internal SATA interface can be extended to be E-SATA		
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: 800x600/60Hz, 1024x768/60Hz, 1280*1024/60Hz		
External alarm in	4	16	
Relay output	2	4	
Power supply	100~240VAC, 6.3A, 50~60Hz		
Power consumption	≤70W (without HDD)		

<b>Working temperature</b>	-10°C ~ +55°C
<b>Working humidity</b>	10% ~ 90%
<b>Size</b>	470mm(D)*441mm(W)*90mm(H)
<b>Weight</b>	≤8Kg (without HDD)

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).