



**DS-7108HI-S Series Net DVR**  
**Technical Manual**

## Notices

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## 1. Overview

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DS-7108HI-S series network digital video recorder is a new generation digital surveillance product applies Linux OS and the latest TI DaVinci DSP, along with the most advanced technology in the information industry, such as video and audio encoding/decoding, hard disk recording and TCP/IP. The firmware is burned into the flash, making the product more stable and reliable.

DS-7108HI-S series devices combine the advantages of both a digital video recorder (DVR) and a digital video server (DVS). It can be used as a standalone video surveillance product, as well as to build up a powerful surveillance network. DS-7108HI-S Net DVR can be widely used in the verticals of banking, telecommunications, transportation sectors, and manufacturing.



**DS-7108HI-S Front Panel**



**DS-7108HI-S Rear Panel**

## 2. Model Description

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**DS-7108HI-S:** 8-ch video input and 4-ch audio input. 1 VGA interface. 2 SATA HDDs supported. 1-ch composited video output and 1-ch spot video output. Ch1-8 Loop Out interface. 1 RS-232 Port.

**Note: 1. The default DVRs are without HDD.**

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

## **3. Features**

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### **3.1 Compression**

- H.264 video compression in real-time (PAL: 25FPS, NTSC: 30FPS).
- 4-ch audio input and one channel output. Each channel is independent with OggVorbis compression at a bit rate of 16Kbps.
- Multi-area motion detection.
- On-screen display (OSD) and changeable OSD position.
- Support both variable bit rate and frame rate.
- Support dual-stream, and the sub stream can support CIF/QCIF resolution.
- 2 stream types, including video & audio, and video-only. Either composited stream or video-only stream can be selected

### **3.2 Local Functions**

#### **3.2.1 Recording**

- Support 2 SATA HDDs, each can support up to 2000GB memory.
- HDD S.M.A.R.T. technology
- Support FAT32 file system
- Multiple record types, including schedule recording, all time, motion detection, alarm, motion & alarm, motion or alarm, command and manual recording.
- Cycle and none cycle recording mode.
- Backup recorded files and clips with USB flash disk, USB hard disk or USB CD/DVD-RW.

#### **3.2.2 Preview & Playback**

- Support one composited video output and one spot video output
- DS-7108HI-S can support one VGA output and ch1-8 Loop Out interface.
- Support Privacy Mask
- Support view tampering alert.
- Support video signal loss alert.
- Support play forward, backward, pause, frame-by-frame, etc
- User-defined preview layout.
- Support one playback channel.
- Playback by files or by time.
- Display local recording status.

**3.2.3 PTZ**

- Several PTZ protocols supported
- Preset, sequence and cruise

**3.2.4 Alarms**

- Exception alarm, motion detection alarm, external alarm, etc.

**3.3 Network**

- Support TCP, UTP, Multicast, DHCP, etc
- PPPoE for ADSL dialup.
- Remote parameters setup
- Remote download and playback the recorded files in DVR.
- Remote upgrade the DVR firmware
- Network PTZ control
- IE to preview and configure DVR.
- View and search log

**3.4 Others**

- Support network voice talk.
- IR remote control
- Multi-level user management.
- Automatically recovery from abnormal conditions.
- Network SDK and client demo source code available

## 4. Specifications

<b>Model</b>	DS-7108HI-S
<b>Compression standard</b>	H.264
<b>Preview resolution</b>	PAL: 704*576 (4CIF) NTSC: 704*480 (4CIF)
<b>Recording resolution</b>	CIF/QCIF
<b>Video input</b>	8 channels BNC ( 1.0Vp-p ,75 Ohm)
<b>Video out</b>	1 channel BNC (1.0Vp-p ,75 Ohm)
<b>Video spot out</b>	1 channel BNC (1.0Vp-p ,75 Ohm)
<b>Video loop out</b>	8 channels
<b>Frame rate(per channel)</b>	CIF: 25(P)/30(N)
<b>Audio compression standard</b>	OggVorbis, 16Kbps
<b>Audio in</b>	4 channels RCA (2Vp-p ,1KOhm)
<b>Audio out</b>	1 channel RCA (Linear electrical level, 600 Ohm)
<b>Voice talk</b>	1 channel (Using 1st channel of Audio IN)
<b>Stream type</b>	Video/Video & Audio
<b>Support dual stream</b>	Yes
<b>Bit rate</b>	32Kbps~2Mbps, or user-defined (Max. 8Mbps)
<b>SATA interface</b>	2 SATA interface , support 2 SATA HDDs. Each supports up to 2TB.
<b>Network port</b>	10M/100M adaptive Ethernet interface
<b>RS-232 port</b>	1 DB9 port
<b>RS485 port</b>	1, T+T- R+R-
<b>USB</b>	1 USB 2.0 interface, support USB mouse, support USB disk, USB HDD, USB CD/DVD-R/W
<b>VGA Interface</b>	1VGA resolution: 800*600/60Hz 800*600/75Hz 1024*768/60Hz
<b>Alarm in</b>	16 channels
<b>Alarm out</b>	4 channels
<b>Power supply</b>	DC 12V
<b>Power consumption</b>	≤30W(without HDDs)
<b>Working</b>	-10°C~+55°C



<b>temperature</b>	
<b>Working humidity</b>	10%~90%
<b>Size</b>	445mm(W)*290mm(D)*44mm(H)
<b>Weight</b>	≤3.28Kg(without HDDs)

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).