

JDS-7108HI-S Series NetDVR Technical Manual

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1. Overview

JDS-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.

JDS-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. JDS-7108HI-S Net DVR can be widely used in the verticals of banking, telecommunications, transportation sectors, and manufacturing.



JDS-7108HI-S Front Panel



JDS-7108HI-S Rear Panel

2. Model Description

JDS-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: The default DVRs are without HDD.

3. Features

3.1 Compression

- H.264 video compression in real-time (PAL: 25FPS, NTSC: 30FPS).
- 4 channel audio inputs 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
- JDS-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.

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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

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4. Specifications

Model	JDS-7108HI-S
Compression standard	H.264
Preview resolution	PAL: 704*576 (4CIF) NTSC: 704*480 (4CIF)
Recording resolution	CIF/QCIF
Video input	8 channels BNC (1.0Vp-p ,75 Ohm)
Video out	1 channel BNC (1.0Vp-p ,75 Ohm)
Video spot out	1 channel BNC (1.0Vp-p ,75 Ohm)
Video loop out	8 channels
Frame rate(per channel)	CIF: 25(P)/30(N)
Audio compression standard	OggVorbis
Audio in	4 channels RCA (2Vp-p ,1KOhm)
Audio out	1 channel RCA (Linear electrical level, 600 Ohm)
Voice talk	1 channel (Using 1st channel of Audio IN)
Stream type	Video/Video & Audio
Support dual stream	Yes
Bit rate	32Kbps~2Mbps (user-defined)
SATA interface	2 SATA interface , support 2 SATA HDDs
Network port	10M/100M adaptive Ethernet port
RS-232 port	1
RS485 port	T+T- R+R-
USB	1 USB 2.0 interface, support USB mouse, support USB disk, USB HDD, USB CD/DVD-R/W
VGA Interface	1VGA resolution: 800*600/60Hz 1024*768/60Hz 1280*1024/60Hz
Alarm in	16 channels
Alarm out	4 channels
Power supply	DC 12V
Power consumption	≤40W(without HDD)
Working	-10℃~+55℃

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temperature	
Working humidity	10%~90%
Size	445mm(W)*290mm(D)*44mm(H)
Weight	≤3.28Kg

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).

[Join Computer & Control Australia Pty, Ltd.](#)
[Unit B13, 2A Westall Road , Clayton Vic 3168 Australia](#)
[Tel: +61 3 95400708](#)
[Fax: +61 3 95400707](#)
[Email:DVRSALES@joincc.com.au](#)
[www.joincc.com.au](#)