DS-7204HI-S Series Net DVR

Technical Manual

Notices

The information in this documentation is subject to change without notice and does not represent any commitment on behalf of HIKVISION. HIKVISION disclaims any liability whatsoever for incorrect data that may appear in this documentation. The product(s) described in this documentation are furnished subject to a license and may only be used in accordance with the terms and conditions of such license.

Please send any comments regarding the documentation to:
overseabusiness@hikvision.com

Find out more about HIKVISION at www.hikvision.com

Contents

1. Overview

DS-7204HI-S series network digital video recorder is a digital surveillance product applies an embedded MCU and Linux OS, 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-7204HI-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-7204HI-S Net DVR can be widely used in the verticals of banking, telecommunications, transportation sectors, and manufacturing.

DS-7204HI-S/HI-VS Front Panel

DS-7204HI-S Rear Panel

DS-7204HI-VS Rear Panel

2. Model Description

DS-7204HI-S: 4-ch video input and 1-ch audio input. No VGA output. SATA HDD supported. 1-ch composited video output and 1-ch spot video output.

DS-7204HI-VS: 4-ch video input and 1-ch audio input. One VGA output. SATA HDD supported. 1-ch composited video output and 1-ch spot video output.

Note: The default DVRs are without HDD.

3. Features

3.1 Compression

- H.264 video compression in real-time (PAL: 25FPS, NTSC: 30FPS). Each channel is independent.
- One channel audio input and 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 & Logo position.
- Supports both constant bit rate and variable bit rate.
- Supports 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

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

3.2.2 Preview & Playback

- Supports one composited video output and one spot video output
- DS-7204HI-VS can support one VGA output.
- Sensitive area masking.
- View tampering alert.
- Supports video signal loss alert.
- Supports play forward, backward, pause, frame-by-frame, etc.
- User-defined preview layout.
- Supports 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
- Supports 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 through client software

3.4 Others
- Supports 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

Model Item	DS-7204HI-S	DS-7204HI-VS
Video compression	H.264	
Preview resolution	PAL: 352×288 ; NTSC: 352×240	
Playback resolution	QCIF/CIF	
Video input	4	
Video input interface	BNC (Electrical Level: 1.0Vp-p, resistance: 75Ω)	
Composite video output	1 channel, BNC (Electrical Level: 1.0Vp-p, resistance: 75Ω)	
Spot video Output	1 channel, BNC (Electrical Level: 1.0Vp-p, resistance: 75Ω)	
Frame rate	PAL:1/16 to 25FPS, NTSC: 1/16 to 30FPS	
Audio compression	OggVorbis	
Audio compression rate	16Kbps	
Audio input	1	
Audio input interface	RCA (Electrical Level: 2.0Vp-p, Resistance: 1KΩ)	
Audio output	1 channel, RCA (Linear Electrical Level, Resistance: 600Ω)	
Stream type	Video/Video&Audio	
Bit rate	32Kbps to 2Mbps, self-defined	
HDD interface	1 SATA interface can support 1 SATA HDD up to2000GB in total	
Communication interface	1 RJ45 10M/100M self-adaptive Ethernet Interface 1 RS-485 interface	
USB interface	1 USB interface, USB2.0	
VGA interface	Unavailable	1 VGA interface can support resolution: 800×600/60Hz, 1024×768/60Hz, 1280 ×1024/60Hz
External alarm in	4	
Relay output	1	
Voice talk	1 channel, RCA (Electrical Level: 2.0Vp-p, Resistance: 1KΩ)	
Dual stream	Available	
Power supply	12VDC	

Power consumption	≤10W (without HDD)
Operating temperature	-10℃ to +55℃
Relative humidity	10% to 90%
Size	315×230×45 mm
Weight	< 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).