



DS-7200HFI-SL Series DVR
Technical Specification

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Main Features

- **Recording at 4CIF resolution real time.**
- **Simultaneous HDMI, VGA and CVBS outputs.**
- **HDMI output and VGA output at up to 1920×1080P resolution.**
- **Channel-zero encoding.**
- **Support dual stream.**
- **HDD quota management; different capacity can be assigned to different channel.**
- **Holiday recording schedule configuration.**
- **Smart searching for the event triggered record files.**
- **Digital zoom of video in live view or playback mode.**
- **Up to 4/8/16-ch synchronous playback.**
- **1 self-adaptive 10M/100M network interface.**
- **IPv6 is supported.**
- **Network detection function.**
- **NTP, SMTP, NFS, UPnP™ and iSCSI protocols supported.**

Functions & Performances

Compression

- PAL/NTSC adaptive video inputs.
- H.264 video compression with high reliability and superior definition.
- Each channel supports dual-stream.
- Recording at 4CIF resolution in real time.
- Independent configuration for each channel, including resolution, frame rate, bit rate, image quality, etc.
- The quality of the input and output video is configurable.
- Normal and event recording parameters configurable for per individual camera.
- Encoding for both audio/video composite stream and video stream; audio and video synchronization during composite stream encoding.
- Watermark technology.

Local Monitoring

- Simultaneous HDMI, VGA and CVBS outputs.
- HDMI/VGA output at up to 1920×1080P resolution.
- 1/4/6/8/9/16-division live view is supported, and the display sequence of screens is adjustable.
- Live view screen can be switched in group, and manual switch and automatic cycle review is also provided, the interval of automatic cycle can be adjusted.
- Quick setting menu is provided for live view.
- The selected live view channel can be shielded.
- Motion detection, tamper-proof, video exception and video loss alarm functions.
- Privacy mask.
- Several PTZ protocols supported; PTZ preset, patrol and pattern.
- Zooming in by clicking the mouse and PTZ tracing by dragging mouse.

HDD Management

- 1 SATA hard disk, with a maximum of 4TB storage capacity.
- 8 network disks (8 NAS disks, or 7 NAS disks+1 IP SAN disk) can be connected.
- HDD quota management; different capacity can be assigned to different channel.

Recording, Capture and Playback

- Holiday recording schedule configuration.
- Normal and event video encoding parameters.
- Multiple recording types: manual, normal, and motion.
- 8 recording time periods with separated recording types.

- Pre-record and post-record for motion detection for recording, and pre-record time for schedule and manual recording.
- Searching record files by event.
- Customization of tags, searching and playing back by tags.
- Locking and unlocking record files.
- Local redundant recording.
- Searching and playing back record files by channel number, recording type, start time, end time, etc.
- Smart search for the selected area in the video.
- Zooming in when playback.
- Playing reversely.
- Supports pause, speed up, speed down, skip forward, and skip backward when playback, locating by dragging the mouse.
- Up to 4/8/16-ch synchronous playback at 4CIF resolution.

Backup

- Export video data by USB or SATA storage device.
- Export video clips when playback.
- Management and maintenance of backup devices.

Alarm and Exception

- Alarm for video loss, motion detection, tampering, abnormal signal, video input/output standard mismatch, illegal login, network disconnected, IP confliction, abnormal record, HDD error, and HDD full, etc.
- Alarm event triggers full screen monitoring, audio alarm, notifying surveillance center and sending email.
- Automatic restore when system is abnormal.

Other Local Functions

- Operable by mouse, or IR remote control.
- Three-level user management; admin user is allowed to create many operating accounts and define their operating permission, which includes the limit to access any channel.
- Operation, exceptions and log recording and searching.
- Import and export of device configuration information.

Network Functions

- 1 self-adaptive 10M/100M network interface.
- IPv6 is supported.
- TCP/IP protocol, PPPoE, DHCP, DNS, DDNS, NTP, SADP, SMTP, SNMP, UPnP™, NFS, and iSCSI are supported.
- TCP, UDP and RTP for unicast.
- Remote search, playback, download, locking and unlocking the record files, and downloading files broken transfer resume.
- Remote parameters setup; remote import/export of device parameters.
- Remote viewing of the device status, system logs and alarm status.

- Remote locking and unlocking of control panel and mouse.
- Remote HDD formatting and program upgrading.
- Remote system restart.
- RS-485 transparent channel transmission.
- Alarm event and exception information can be sent to the remote host.
- Remotely start/stop recording.
- Upgrade by remote FTP server.
- Remote PTZ control.
- Two-way audio and voice broadcasting.
- Embedded WEB server.

Development Scalability:

- SDK for Windows and Linux system.
- Source code of application software for demo.
- Development support and training for application system.

Panels & Interfaces

Front Panel

DS-7204HFI-SL, DS-7208HFI-SL, DS-7216HFI-SL:



- ① POWER Indicator
- ② STATUS Indicator
- ③ Tx/Rx Indicator
- ④ USB Interface
- ⑤ IR Receiver

Rear Panel

DS-7204HFI-SL:



DS-7216HFI-SL:



Note: The rear panel of DS-7208HFI-SL provides 8 video input interfaces.

- ① VIDEO IN
- ② VIDEO OUT
- ③ USB Interface
- ④ HDMI Interface
- ⑤ VGA Interface
- ⑥ AUDIO IN, RCA Connector
- ⑦ AUDIO OUT, RCA Connector
- ⑧ LAN Network Interface
- ⑨ RS-485 Serial Interface
- ⑩ 12VDC Power Input
- ⑪ Power Switch
- ⑫ GND

Specifications

| Model | | DS-7204HFI-SL | DS-7208HFI-SL | DS-7216HFI-SL |
|--------------------|-----------------------|--|--|---------------|
| Video/Audio input | Video compression | H.264 | | |
| | Video input | 4-ch | 8-ch | 16-ch |
| | Video input interface | BNC (1.0 Vp-p, 75 Ω), PAL /NTSC self-adaptive | | |
| | Audio compression | G.711u | | |
| | Audio input | 1-ch, RCA (2.0 Vp-p, 1 kΩ) | | |
| | Two-way audio input | 1-ch, RCA (2.0 Vp-p, 1 kΩ) (using the audio input) | | |
| Video/Audio output | HDMI/VGA output | 1-ch, resolution: 1080P: 1920×1080×60Hz UXGA: 1600×1200×60Hz SXGA: 1280×1024×60Hz 720P: 1280×720×60Hz XGA: 1024×768×60Hz | 1-ch, resolution: 1080P: 1920×1080×60Hz, SXGA: 1280×1024×60Hz, 720P: 1280×720×60Hz, XGA: 1024×768×60Hz | |
| | CVBS output | 1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480 | | |
| | Encoding resolution | 4CIF / 2CIF / CIF / QCIF | | |
| | Frame rate | 25 fps (P) / 30 fps (N) | | |
| | Video bit rate | 32 Kbps ~ 3072 Kbps, or user defined (Max. 3072 Kbps) | | |
| | Audio output | 1-ch, RCA (Linear, 1 kΩ) | | |
| | Audio bit rate | 64 Kbps | | |
| | Dual-stream | Support; Sub-stream: CIF / QCIF @ 25 fps (P) / 30 fps (N)) | | |
| | Stream type | Video, Video & Audio | | |
| | Synchronous playback | 4-ch | 8-ch | 16-ch |
| Hard disk | SATA | 1 SATA interface | | |
| | Capacity | Up to 4TB capacity | | |
| External interface | Network interface | 1, RJ45 10M / 100M Ethernet interface | | |
| | Serial interface | 1 RS-485 interface, half-duplex | | |

| | | |
|----------------|---|-----------------------|
| | USB interface | 2, USB 2.0 |
| General | Power supply | 12 VDC |
| | Consumption (without hard disk or DVD-R/W) | ≤ 10 W |
| | Working temperature | -10 °C ~+55 °C |
| | Working humidity | 10% ~ 90% |
| | Chassis | Standalone 1U chassis |
| | Dimensions (W × D × H) | 315 × 230 × 45 mm |
| | Weight (without hard disk or DVD-R/W) | ≤ 2 kg |