# DS-7200HQHI-K1 SERIES TURBO HD DVR

## Features and Functions

### Video Input and Transmission

- Self-adaptive HDTVI/HDCVI/AHD/CVBS signal input
- Up to 2-ch 4 MP IP cameras input
- Long distance transmission over UTP and coaxial cable: max. 800m for 1080p and 1200m for 720p HDTVI signal

### Compression and Recording

- H.265+/H.265/H.264+/H.264 encoding for the main stream, and H.265/H.264 for the sub-stream of analog cameras
- Connectable to H.265+/H.265/H.264+/H.264 IP cameras
- H.265+ can be enabled to improve encoding efficiency and reduce data storage costs
- Up to 3 MP resolution for recording
- Supports real-time 1080p lite and when enabled, the image effect is similar with 1080p

### Video Output

- Simultaneous HDMI/VGA output
- HDMI output at up to 4K (3840 × 2160) resolution for DS-7216HQHI-K1
- Separate CVBS output

### Storage and Playback

- 1 SATA interface (up to 6 TB capacity per HDD)
- 4/8/16-ch synchronous playback
- Smart search for efficient playback
- Supports the 3rd party cloud storage (Dropbox/Google Drive/Microsoft OneDrive)

### Smart Function

- Supports multiple VCA (Video Content Analytics) events for both analog and smart IP cameras
- DS-7204/7208HQHI-K1 support 2-ch line crossing detection and intrusion detection; DS-7216HQHI-K1 supports 2-ch line crossing detection and intrusion detection, and 1-ch sudden scene change detection
- VQD (Video Quality Diagnostics)
- Supports PTZ control via Omnicast VMS of Genetec protocol

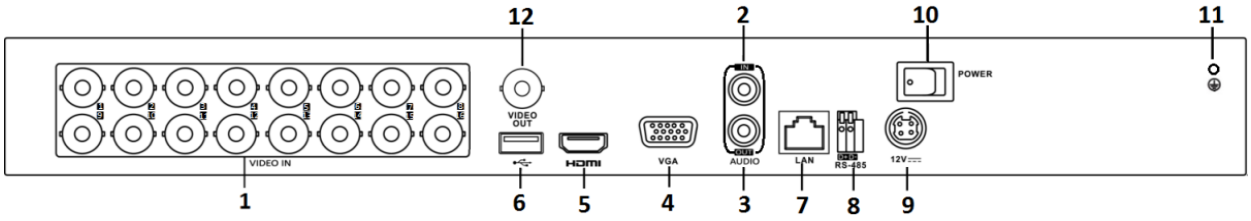
### Network & Ethernet Access

- Hik-Connect & DDNS (Dynamic Domain Name System) for easy network management
- 1 RJ45 10M/100M Ethernet network interface for DS-7204/7208HQHI-K1, and 1 RJ45 10M/100M/1000M Ethernet network interface for DS-7216HQHI-K1
- Output bandwidth limit configurable

# Specifications

| Model | | DS-7204HQHI-K1 | DS-7208HQHI-K1 | DS-7216HQHI-K1 |
|---|---|---|---|---|
| Video/Audio input | Video compression | H.265+/H.265/H.264+/H.264 | | |
| | Analog video input | 4-ch | 8-ch | 16-ch |
| | | BNC interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection | | |
| | HDTVI input | 3 MP, 1080p30, 1080p25, 720p60, 720p50, 720p30, 720p25<br>**Note**: The 3 MP signal input is only available for channel 1 of DS-7204HQHI-K1, for channel 1/2 of DS-7208HQHI-K1, and for channel 1/2/3/4 of DS-7216HQHI-K1. | | |
| | AHD input | 1080p25, 1080p30, 720p25, 720p30 | | |
| | HDCVI input | 1080p25, 1080p30, 720p25, 720p30 | | |
| | CVBS input | PAL/NTSC | | |
| | IP video input | 1-ch | 2-ch | 2-ch |
| | | Up to 4 MP resolution | | |
| | | Supports H.265+/H.265/H.264+/H.264 IP cameras | | |
| | Audio compression | G.711u | | |
| | Audio input | 1-ch, RCA (2.0 Vp-p, 1 KΩ) | | |
| Video/Audio output | CVBS output | 1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480 | | |
| | HDMI/VGA output | 1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz | | **VGA**: 1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz<br>**HDMI**: 1-ch, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz |
| | Encoding resolution | When 1080p Lite mode not enabled: 3 MP/1080p/720p/VGA/WD1/4CIF/CIF;<br>When 1080p Lite mode enabled: 3 MP/1080p lite/720p lite/VGA/WD1/4CIF/CIF | | |
| | Frame rate | Main stream:<br>When 1080p Lite mode not enabled:<br>For 3 MP stream access: 3 MP/1080p/720p/VGA/WD1/4CIF/CIF@15fps<br>For 1080p stream access: 1080p/720p@15fps; VGA/WD1/4CIF/CIF@25fps (P)/30fps (N)<br>For 720p stream access: 720p/VGA/WD1/4CIF/CIF@25fps (P)/30fps (N)<br>When 1080p Lite mode enabled:<br>3 MP@15fps<br>1080p lite/720p lite/VGA/WD1/4CIF/CIF@25fps (P)/30fps (N) | | |
| | | Sub-stream:<br>WD1/4CIF@12fps; CIF@25fps (P)/30fps (N) | | |
| | Video bit rate | 32 Kbps to 6 Mbps | | |
| | Audio output | 1-ch, RCA (Linear, 1 KΩ) | | |
| | Audio bit rate | 64 Kbps | | |
| | Dual stream | Support | | |
| | Stream type | Video, Video & Audio | | |
| | Synchronous playback | 4-ch | 8-ch | 16-ch |
| Network management | Remote connections | 128 | | |
| | Network protocols | TCP/IP, PPPoE, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS, ONVIF | | |
| Hard disk | SATA | 1 SATA interface | | |
| | Capacity | Up to 6 TB capacity for each disk | | |
| External interface | Two-way audio input | 1-ch, RCA (2.0 Vp-p, 1 KΩ) (using the 1st audio input) | | |
| | Network interface | 1, RJ45 10M/100M self-adaptive Ethernet interface | | 1, RJ45 10M/100M/1000M self-adaptive Ethernet interface |
| | USB interface | 2 × USB 2.0 | | Front panel: 1 × USB 2.0<br>Rear panel: 1 × USB 3.0 |
| | Serial interface | RS-485 (half-duplex) | | |
| General | Power supply | 12 VDC | | |
| | Consumption (without HDD) | ≤ 6 W | ≤ 7.5 W | ≤ 25 W |
| | Working temperature | -10 ºC to +55 ºC (+14 ºF to +131 ºF) | | |
| | Working humidity | 10% to 90% | | |
| | Dimensions (W × D × H) | 315 × 242 × 45 mm (12.4 × 9.5 × 1.8 inch) | | |
| | Weight (without HDD) | ≤ 1.16 kg (2.6 lb) | ≤ 1.78 kg (3.9 lb) | ≤ 2 kg (4.4 lb) |

## Physical Interfaces




**NOTE** The rear panel of DS-7204/7208HQHI-K1 provides 4/8 video input interfaces.

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

## Available Models

DS-7204HQHI-K1, DS-7208HQHI-K1, DS-7216HQHI-K1

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