



# HIKVISION

## DS-7200HQHI-F1/N SERIES TURBO HD DVR



### Features and Functions

#### Video Input and Transmission

- ✧ Connectable to HDTVI, AHD and analog cameras
- ✧ Up to 2-ch 1080p IP cameras input for DS-7208/7216HQHI-F1/N
- ✧ Long distance transmission over UTP and coaxial cable with max. 1200m for the 720p and max. 800m for the 1080p HDTVI signal

#### Compression and Recording

- ✧ One-key enable H.264+ compression to improve encoding efficiency by up to 50% and reduce data storage costs
- ✧ Up to 3 MP resolution for recording of the first channel of DS-7204HQHI-F1/N, the first 2 channels of DS-7208HQHI-F1/N, and the first 4 channels of DS-7216HQHI-F1/N
- ✧ Supports real-time 1080p lite and when enabled, the image effect is similar with 1080p

#### Video Output

- ✧ Simultaneous HDMI/VGA output at up to 1920 × 1080 resolution for DS-7204/7208HQHI-F1/N and 4K (3840 × 2160) resolution for HDMI output of DS-7216HQHI-F1/N
- ✧ Independent CVBS output improves compatibility at the most possibility

#### Storage and Playback

- ✧ One SATA interface (up to 6 TB capacity per HDD)
- ✧ 4/8/16-ch synchronous playback
- ✧ Smart search for efficient playback

#### Smart Function

- ✧ Supports multiple VCA (Video Content Analytics) events for both analog and smart IP cameras
- ✧ VQD (Video Quality Diagnostics)
- ✧ Unlock pattern for device login for the admin
- ✧ Clear-text password available

#### Network & Ethernet Access

- ✧ Hik Cloud P2P & HiDDNS (Dynamic Domain Name System) for easy network management
- ✧ 1 gigabit Ethernet network interface (for DS-7216HQHI-F1/N)
- ✧ Output bandwidth limit configurable

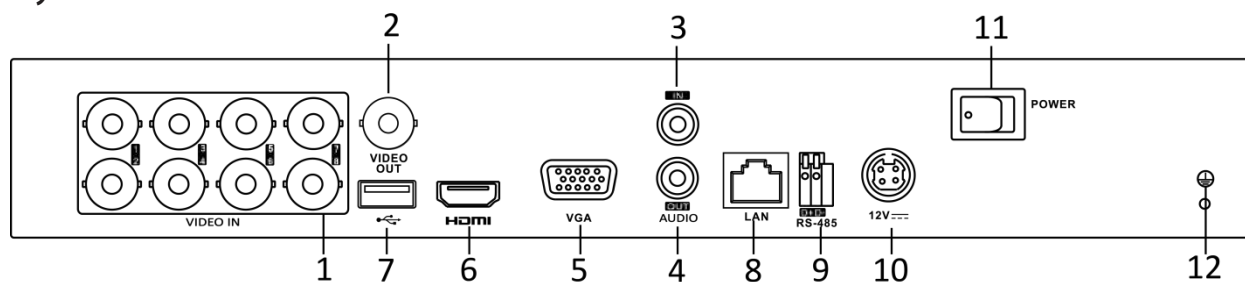


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## Specifications

| Model              |                                 | DS-7204HQHI-F1/N  | DS-7208HQHI-F1/N | DS-7216HQHI-F1/N  |
|--------------------|---------------------------------|---|------------------|---|
| Video/Audio input  | Video compression               | 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, 1080p25, 1080p30, 720p25, 720p30, 720p50, 720p60<br>Note: The 3 MP signal input is only available for the first channel of DS-7204HQHI-F1/N, the first 2 channels of DS-7208HQHI-F1/N, and the first 4 channels of DS-7216HQHI-F1/N.  |                  |   |
|                    | AHD input                       | 1080p25, 1080p30, 720p25, 720p30  |                  |   |
|                    | CVBS input                      | Support   |                  |   |
|                    | IP video input                  | 1-ch  | 2-ch             |   |
|                    |                                 | Up to 1080p resolution  |                  |   |
| Video/Audio output | Audio compression               | G.711u  |                  |   |
|                    | Audio input/Two-way audio input | 1-ch, RCA (2.0 Vp-p, 1 KΩ)  |                  |   |
|                    | 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  |                  |   |
|                    |                                 | HDMI: 1-ch, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz<br>VGA: 1-ch, 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: 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@12fps<br>For 1080p stream access: 1080p@12fps; 720p/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>1080p lite/720p lite/VGA/WD1/4CIF/CIF@25fps (P)/30fps (N)<br>Sub-stream:<br>WD1/4CIF@12fps; CIF/QVGA/QCIF@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 Cloud P2P, 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 | 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)       | ≤ 15 W  | ≤ 20 W           | ≤ 30 W  |
|                    | Working temperature             | -10 °C to +55 °C (14 °F to 131 °F)  |                  |   |
|                    | Working humidity                | 10% to 90%  |                  |   |
|                    | Dimensions (W × D × H)          | 315 × 242 × 45 mm (12.4 × 9.5 × 1.8 inch)   |                  |   |
|                    | Weight (without HDD)            | ≤ 2 kg (4.4 lb)   | ≤ 2 kg (4.4 lb)  | ≤ 2 kg (4.4 lb)   |

## Physical Interfaces



The rear panel of DS-7204/7216HQHI-F1/N provide 4/16 video input interfaces.

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

## Available Models

DS-7204HQHI-F1/N, DS-7208HQHI-F1/N, DS-7216HQHI-F1/N

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