Real HD DS-7208HQHI-K2

Real HD DS-7208HQHI-K2 8-Channel Turbo HD DVR User Manual

Model: DS-7208HQHI-K2
Brand: Real HD

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Real HD DS-7208HQHI-K2 8-Channel Turbo HD DVR. This Digital Video Recorder is designed for advanced surveillance systems, offering high-efficiency video compression, robust storage capabilities, and smart functions for enhanced security monitoring.

Key Features

- H.265 Pro+/H.265 Pro/H.265/H.264+/H.264 and Dual-Stream Video Compression for efficient storage.
- Full channel recording at up to 1080p resolution.
- Support for up to 6MP IP cameras and 4MP TVI/AHD/CVI cameras.
- 5 signals input adaptively (HDTVI/AHD/CVI/CVBS/IP).
- 4K HDMI Output and HDMI/VGA simultaneous output up to 1280 × 1024.
- Deep learning-based motion detection and perimeter protection.
- Two SATA interfaces for expanded storage, with 2TB hard drive included.
- Support for phone app (Hik-Connect) for remote viewing.



Figure 1: Overview of Real HD DS-7208HQHI-K2 DVR Key Features and Design.

The DS-7208HQHI-K2 DVR is equipped with advanced features to provide reliable and comprehensive surveillance. Its deep learning-based analytics enhance detection accuracy, reducing false alarms and improving overall security efficiency.

2. Setup and Installation

2.1 Package Contents

Before proceeding with installation, ensure all components are present:

- DS-7208HQHI-K2 DVR Unit (with 2TB HDD pre-installed)
- Power Adapter
- USB Mouse
- SATA Cables (if additional HDD installation is required)
- Quick Start Guide

2.2 Physical Connections

Connect all necessary cables to the rear panel of the DVR as illustrated below.

Specification

Model	iDS-7208HQHI-M2/S	iDS-7216HQHI-M2/S
Motion Detection 2.0[1]		
Human/Vehicle Analysis	Deep learning-based motion detection 2.0 is enabled by default for all analog channels, it can classify human and vehicle, and extremely reduce false alarms caused by objects like leaves and lights; Quick search by object or event type is supported;	
Perimeter Protection[1]		
Human/Vehicle Analysis	Up to 4-ch	
Recording		
Video compression	H.265 Pro+/H.265 Pro/H.265/H.264+/H.264	
Encoding resolution	Main stream: When 1080p Lite mode not enabled: For 4 MP stream access: 4 MP lite@15 fps; 1080p lite/720p/WD1/4CIF/VGA/CIF@25 fps (P)/30 fps (N) For 3 MP stream access: 3 MP/1080p/720p/VGA/WD1/4CIF/CIF@15 fps For 1080p stream access: 1080p/720p@15 fps; VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N) For 720p stream access: 720p/VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N) When 1080p Lite mode enabled: 4 MP lite/3 MP@15 fps; 1080p lite/720p lite/VGA/WD1/4CIF/CIF@25 fps (P)/30 fps (N)	
	Sub-stream: WD1/4CIF@12 fps; CIF@25 fps (P)/30 fps (N)	
Video bitrate	32 Kbps to 6 Mbps	
Dual stream	Support	
Stream type	Video, Video & Audio	
Audio compression	G.711u	
Audio bitrate	64 Kbps	
Video and Audio		
IP video input[2]	2-ch (up to 10-ch) Enhanced IP mode on: 4-ch (up to 12-ch), each up to 4 Mbps	2-ch (up to 18-ch) Enhanced IP mode on: 8-ch (up to 24-ch), each up to 4 Mbps
	Up to 6 MP resolution	
	Support H.265+/H.265/H.264+/H.264 IP cameras	
Analog video input	8-ch	16-ch
	BNC interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection	
HDTVI input	3K@20 fps, 4 MP@30 fps, 4 MP@25 fps, 3 MP@18 fps, 1080p@30 fps, 1080p@25 fps, 720p@60 fps, 720p@50 fps, 720p@30 fps, 720p@25 fps ***: The 3 MP signal input is only available for channel 1/2 of iDS-7208HQHI-M2/S, and for channel 1/2/3/4 of iDS-7216HQHI-M2/S.**	
AHD input	4 MP@25 fps, 4 MP@30 fps, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps	
HDCVI input	4 MP@25 fps, 4 MP@30 fps, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps	

Figure 2: Rear panel of the DS-7208HQHI-K2 DVR showing various input/output ports. This includes video input (BNC), video output (VGA, HDMI), audio input/output (RCA), LAN port, USB ports, RS-485, and power input.

1. **Connect Cameras:** Attach your analog (TVI/AHD/CVI/CVBS) cameras to the "VIDEO IN" BNC ports. For IP cameras, connect them to your network and ensure they are discoverable by the DVR.
2. **Connect Monitor:** Use an HDMI or VGA cable to connect a monitor to the respective "HDMI" or "VGA" output port.

3. **Connect Network:** Plug an Ethernet cable from your router/switch into the "LAN" port on the DVR.
4. **Connect Audio (Optional):** If using microphones or speakers, connect them to the "AUDIO IN" and "AUDIO OUT" RCA ports.
5. **Connect USB Mouse:** Insert the USB mouse into one of the "USB" ports for local control.
6. **Power On:** Connect the power adapter to the "12VDC" input and then to a power outlet. Press the "POWER" button on the rear panel to turn on the DVR.

2.3 Initial Setup Wizard

Upon first boot, the DVR will guide you through an initial setup wizard. Follow the on-screen prompts to configure basic settings such as language, date/time, network settings, and create an administrator password.

2.4 Remote Access Configuration (Hik-Connect)

To access your DVR remotely via smartphone, tablet, or PC, follow these steps:



Figure 3: Diagram illustrating the three steps for setting up remote access: connect DVR to internet, download Hik-Connect app, and add the device.

1. **Connect DVR to Internet:** Ensure your DVR is connected to your network via the LAN port and has internet access.
2. **Enable Platform Access:** On the DVR's local interface, navigate to **Configuration > Network > Advanced > Platform Access**. Enable Hik-Connect and set a verification code.

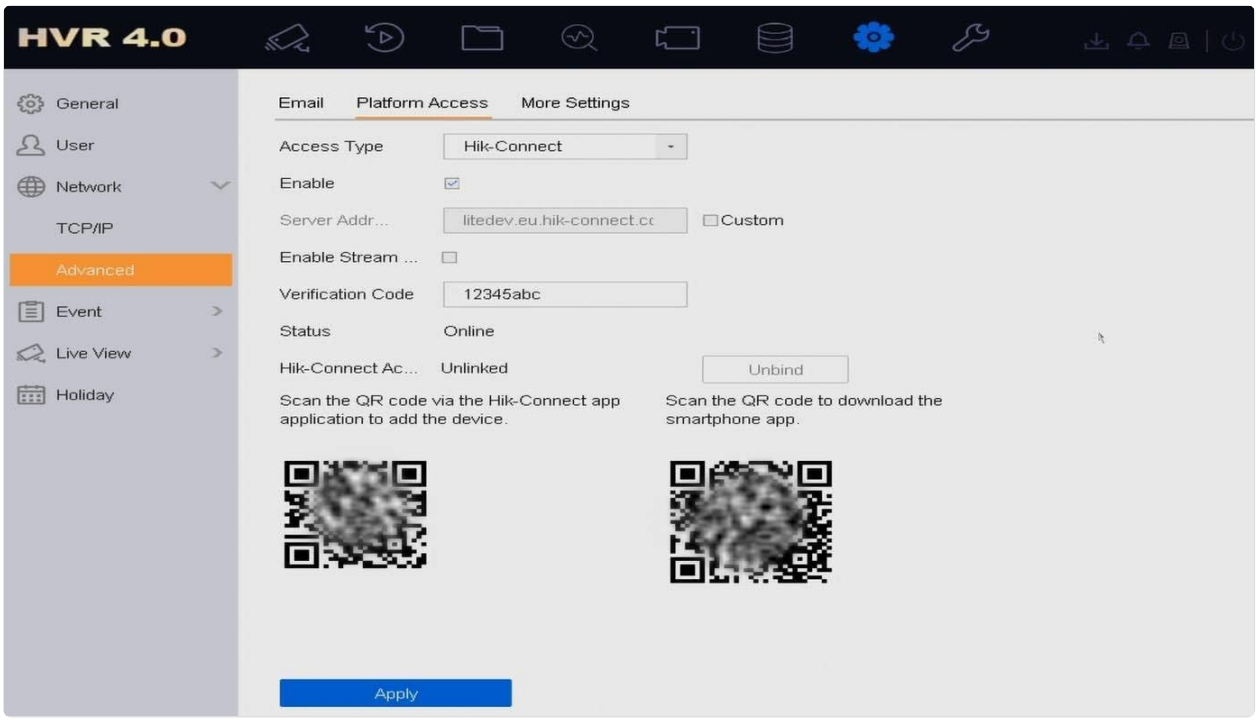


Figure 4: Screenshot of the HVR 4.0 interface showing the Platform Access settings, including the option to enable Hik-Connect and set a verification code.

3. **Download Hik-Connect App:** Download the "Hik-Connect" app from your smartphone's app store (App Store for iOS, Google Play Store for Android).
4. **Add Device:** Open the Hik-Connect app, create an account, and tap the "+" icon to add your DVR. You can scan the QR code displayed on the DVR's Platform Access screen or manually enter the serial number.

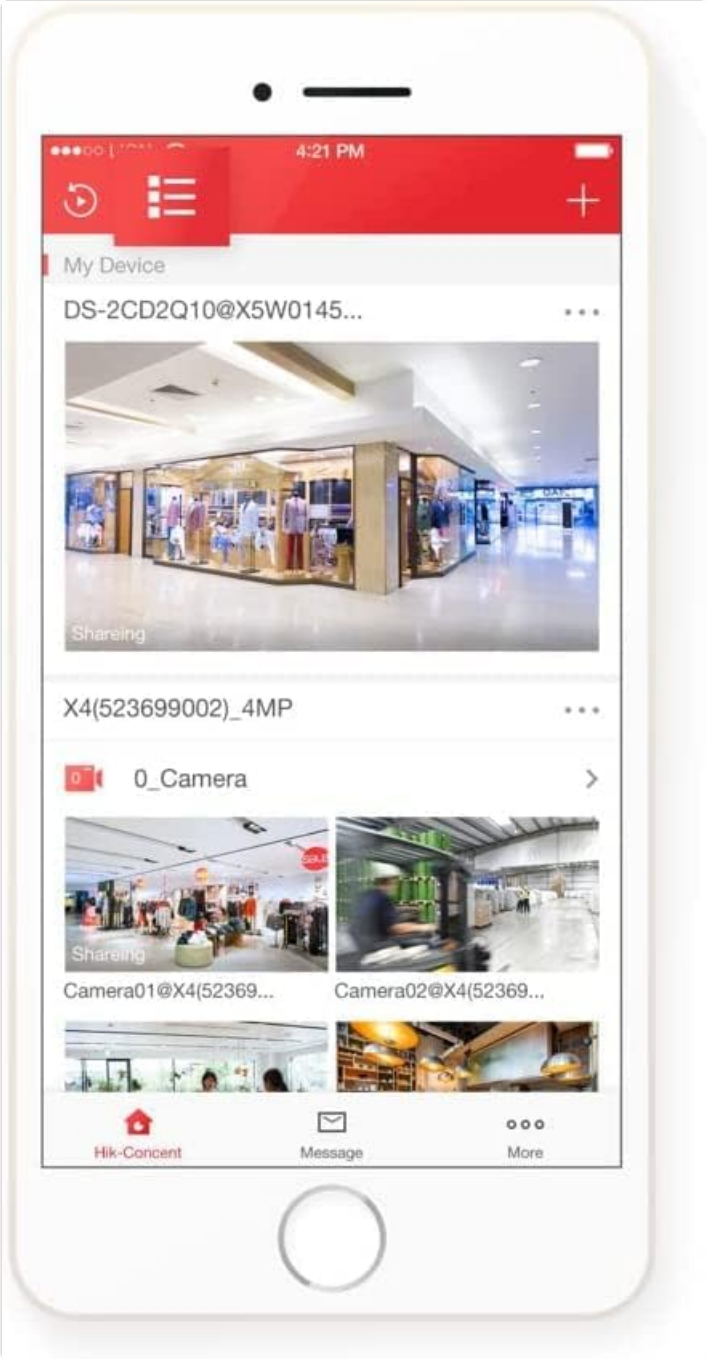


Figure 5: Screenshot of the Hik-Connect mobile application interface, showing a list of connected devices and live camera feeds.

3. Operating Instructions

3.1 Live View

After successful setup, you can view live camera feeds on your connected monitor or via the Hik-Connect app.

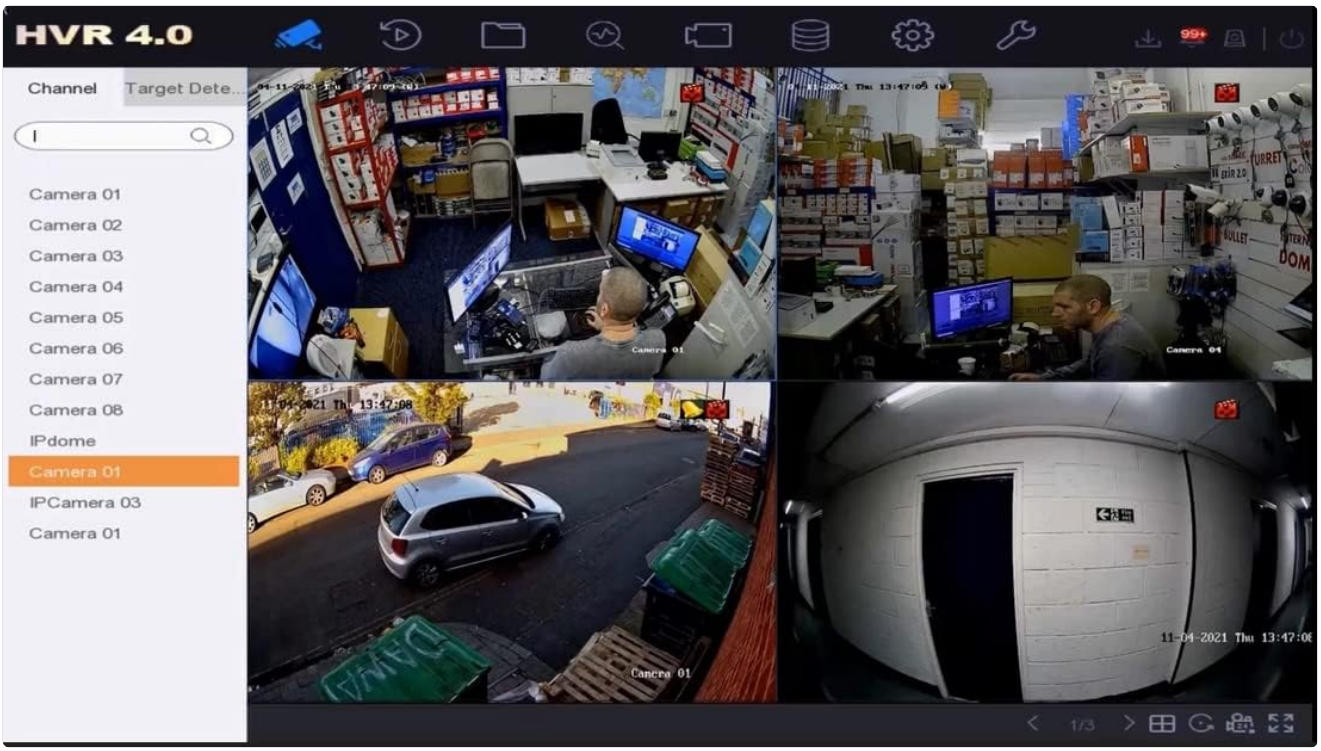


Figure 6: The HVR 4.0 interface displaying live video feeds from multiple surveillance cameras.

On the local interface, use the mouse to navigate. Double-click a camera feed to view it in full screen. Right-click to access the main menu.

3.2 Recording Configuration

The DVR supports continuous recording, motion-triggered recording, and scheduled recording. Access the recording settings via **Configuration > Storage > Schedule Settings** to customize recording modes for each channel.

3.3 Video Playback

To review recorded footage:

1. From the main menu, select **Playback**.
2. Choose the camera channel(s) and the date/time range for playback.
3. Use the timeline to navigate through recordings. The DVR supports smart search for efficient playback of events.



Figure 7: The HVR 4.0 interface showing video playback with a calendar for date selection and a timeline for navigating recorded events.

3.4 Smart Functions

The DVR features deep learning-based motion detection and perimeter protection (line crossing and intrusion detection). Configure these settings under **Configuration > Event** to receive alerts and trigger recordings based on specific events.

4. Maintenance

4.1 Regular Checks

- Periodically check the DVR's status to ensure all cameras are recording correctly.
- Verify hard drive health and available storage space.
- Ensure the DVR is in a well-ventilated area to prevent overheating.

4.2 Firmware Updates

Firmware updates can improve performance, add new features, and address security vulnerabilities. It is recommended to keep your DVR's firmware up to date. For firmware upgrade assistance, please contact the seller.

4.3 Data Backup

Regularly back up important video footage to an external USB drive or network storage to prevent data loss. Access the backup function from the DVR's main menu.

5. Troubleshooting

5.1 Common Issues

- **No Video Output:** Check HDMI/VGA cable connections, ensure the monitor is on and set to the correct input. Verify DVR power status.
- **No Camera Feed:** Ensure cameras are powered, properly connected to the DVR, and configured correctly. Check cable integrity.

- **Network Connection Issues:** Verify Ethernet cable connection, router status, and DVR network settings (IP address, gateway, DNS).
- **Remote Access Failure:** Confirm DVR has internet access, Hik-Connect is enabled, and the verification code is correct. Check app settings and network connectivity on your mobile device.
- **Recording Not Working:** Check hard drive status, ensure recording schedules are configured, and there is sufficient storage space.

5.2 Resetting the Device

If you encounter persistent issues, a factory reset may resolve them. This will revert all settings to their default values. Consult the DVR's local interface for the reset option, typically found under **Configuration > System > Maintenance**.

5.3 Technical Support

For further technical assistance or issues not covered in this manual, please contact the seller or manufacturer's support channels.

6. Specifications

The following table outlines the key technical specifications for the Real HD DS-7208HQHI-K2 DVR.

Feature	Description
Model	DS-7208HQHI-K2
Video Compression	H.265 Pro+/H.265 Pro/H.265/H.264+/H.264
Video Input	8-channel BNC (HDTVI/AHD/CVI/CVBS), up to 6MP IP camera support
Video Output	1 HDMI (up to 4K), 1 VGA (up to 1080p)
Audio Input/Output	1-channel RCA / 1-channel RCA
Recording Resolution	Up to 1080p
Hard Drive	2TB SATA HDD included (supports up to 2 SATA HDDs)
Network Interface	1 RJ45 10M/100M Ethernet interface
USB Interface	2 x USB 2.0
Power Supply	12 VDC
Dimensions (W x D x H)	Refer to product packaging for exact dimensions
Weight	Approximately 25 pounds (with HDD)
Operating Temperature	Refer to product packaging

7. Warranty and Support

7.1 Product Warranty

This Real HD DVR comes with a manufacturer's warranty. Please refer to the warranty card included with your product or contact the seller for specific warranty terms and conditions. Keep your proof of purchase for warranty

claims.

7.2 Customer Support

For any questions, technical support, or service requests, please contact the Real HD customer support team or the seller from whom you purchased the product. Contact information is typically available on the product packaging or the seller's website.

Note: Specifications and features are subject to change without prior notice.