Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Real HD iDS-7216HQHI-M2/S

User Manual: Real HD iDS-7216HQHI-M2/S Turbo HD DVR

Model: iDS-7216HQHI-M2/S

1. Product Overview

The Real HD iDS-7216HQHI-M2/S is a high-performance 16-channel Turbo HD DVR designed for advanced surveillance systems. It supports 2MP 1080P resolution, features 4K HDMI output, and is compatible with various camera types including 4MP or lower resolution Coax TVI cameras. This model includes a pre-installed 2TB hard drive for immediate recording capabilities.



Image 1.1: The Real HD iDS-7216HQHI-M2/S DVR unit shown alongside a 2TB hard drive, indicating its primary components.

Key Features:

- Support for Phone App (Hik-Connect) for remote monitoring.

- Adaptive input for up to 6MP IP cameras, 4MP TVI/AHD/CVI cameras, and 5 signals (HDTVI/AHD/CVI/CVBS/IP).
- Advanced H.265+/H.265/H.264+/H.264 video compression for efficient storage.
- Dual-Stream Video Compression for flexible recording and network transmission.
- 4K Resolution HDMI Output and VGA Output up to 1920 x 1080.
- Deep learning-based motion detection 2.0 for all analog channels, reducing false alarms.
- Deep learning-based perimeter protection.
- Up to 10 TB capacity per HDD (supports 2 SATA interfaces).



Image 1.2: A visual representation highlighting the key features of the iDS-7200HQHI-M2/S series, including video compression, input types, and storage capacity.

2. Setup Guide

2.1 Unboxing and Initial Inspection

Carefully remove all components from the packaging. Verify that all items listed in the packing list are present and undamaged. Keep the original packaging for future transport or storage.

2.2 Connecting the DVR

Refer to the rear panel diagram below for connection points.



Image 2.1: The rear panel of the DVR, showing various input and output ports including BNC video inputs, HDMI, VGA, USB, Audio, and Ethernet ports.

1. **Video Input (BNC):** Connect your analog (HDTVI, AHD, HDCVI, CVBS) cameras to the "VIDEO IN" BNC ports. This model supports 16 channels.
2. **Video Output (HDMI/VGA):** Connect a monitor to the HDMI or VGA port for local display.
3. **Audio Input/Output:** Connect audio devices to the RCA audio input/output ports if required.
4. **Network (Ethernet):** Connect an Ethernet cable from the DVR's LAN port to your router or network switch for network access and remote viewing.
5. **USB Ports:** Use the USB 2.0 ports (one front, one rear) for connecting a mouse, USB flash drive for backup, or other USB peripherals.
6. **Power Input:** Connect the provided 12V DC power adapter to the "POWER" input.

2.3 Hard Drive Installation (Pre-installed 2TB HDD)

This DVR model comes with a 2TB hard drive pre-installed. Ensure the hard drive is securely connected inside the unit. If you need to replace or add another hard drive (up to 10TB per disk, 2 SATA interfaces available), refer to the detailed instructions in the full product manual for proper installation and formatting.

2.4 Powering On

After all connections are made, plug the power adapter into a power outlet. The DVR will power on automatically. Follow the on-screen prompts for initial setup, including setting up an administrator password and network configuration.

3. Operating Instructions

3.1 User Interface Overview (HVR 4.0)

The DVR utilizes the HVR 4.0 interface for local operation. This interface provides access to live view, playback, recording settings, system configuration, and more.



Image 3.1: The HVR 4.0 user interface displaying a multi-channel live view, with a channel list on the left and various control icons at the top.

3.2 Live View

From the main screen, you can view live feeds from all connected cameras. Use the mouse to navigate between single-channel view, multi-channel grids (e.g., 4-channel, 9-channel, 16-channel), and access various on-screen controls.

3.3 Playback and Recording

To review recorded footage, access the playback menu. You can search for recordings by date, time, and event type. The timeline allows for easy navigation through recorded video.



Image 3.2: The HVR 4.0 playback interface, showing a video feed, a calendar for date selection, and a detailed timeline for navigating recorded events.

3.4 Remote Access (Hik-Connect App)

The DVR supports remote access via the Hik-Connect mobile application, allowing you to view live feeds, play back recordings, and receive alerts from your smartphone, tablet, or PC.



Image 3.3: A diagram illustrating the three simple steps for remote access: 1) Connect NVR to Internet, 2) Download Hik-Connect app, 3) Add device and start watching.

1. **Connect to Internet:** Ensure your DVR is connected to your network and has internet access.
2. **Download Hik-Connect App:** Download the "Hik-Connect" app from your smartphone's app store (available for Android and iOS).
3. **Add Device:** Open the app, create an account, and add your DVR by scanning the QR code found in the DVR's network settings (Platform Access section).

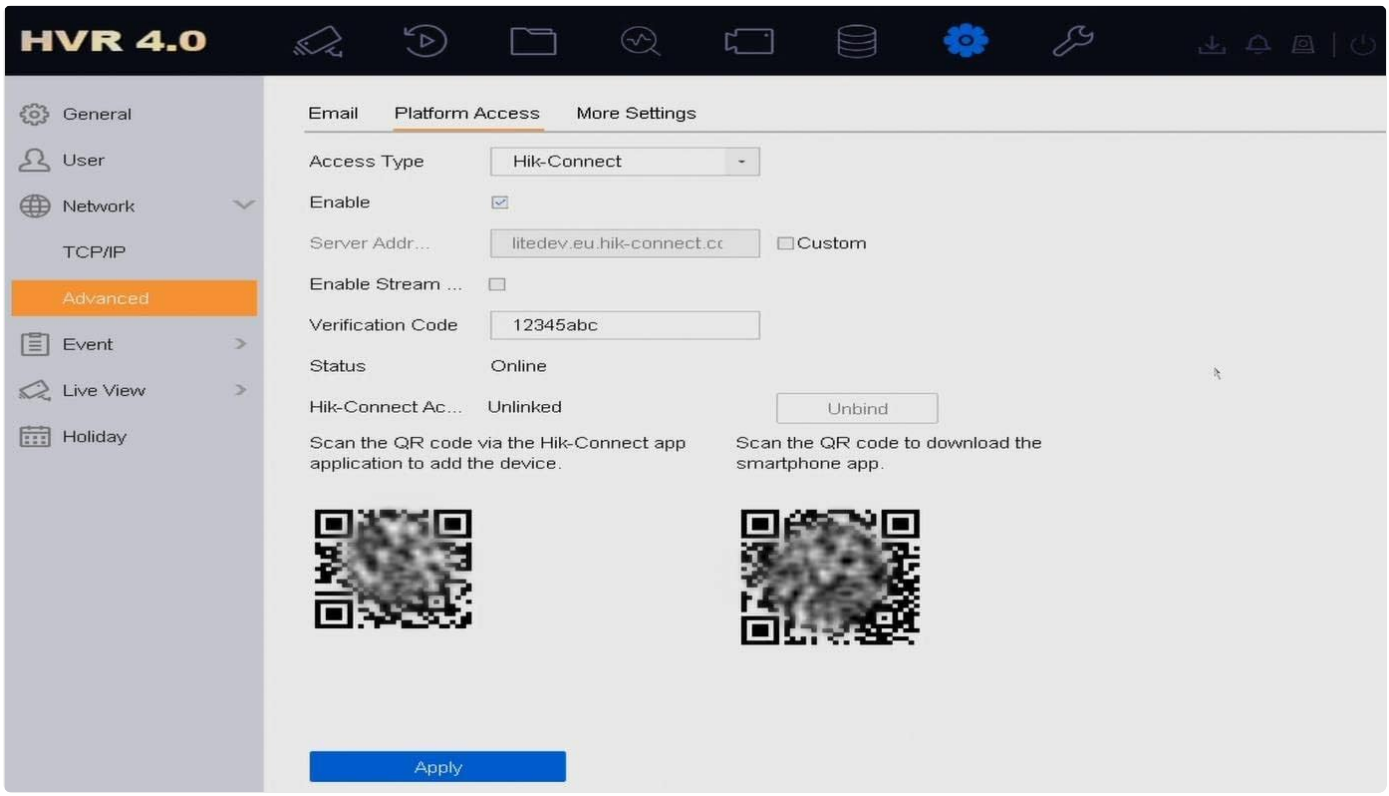


Image 3.4: A screenshot of the DVR's HVR 4.0 interface showing the "Platform Access" settings under "Advanced" network options, including QR codes for Hik-Connect app download and device addition.

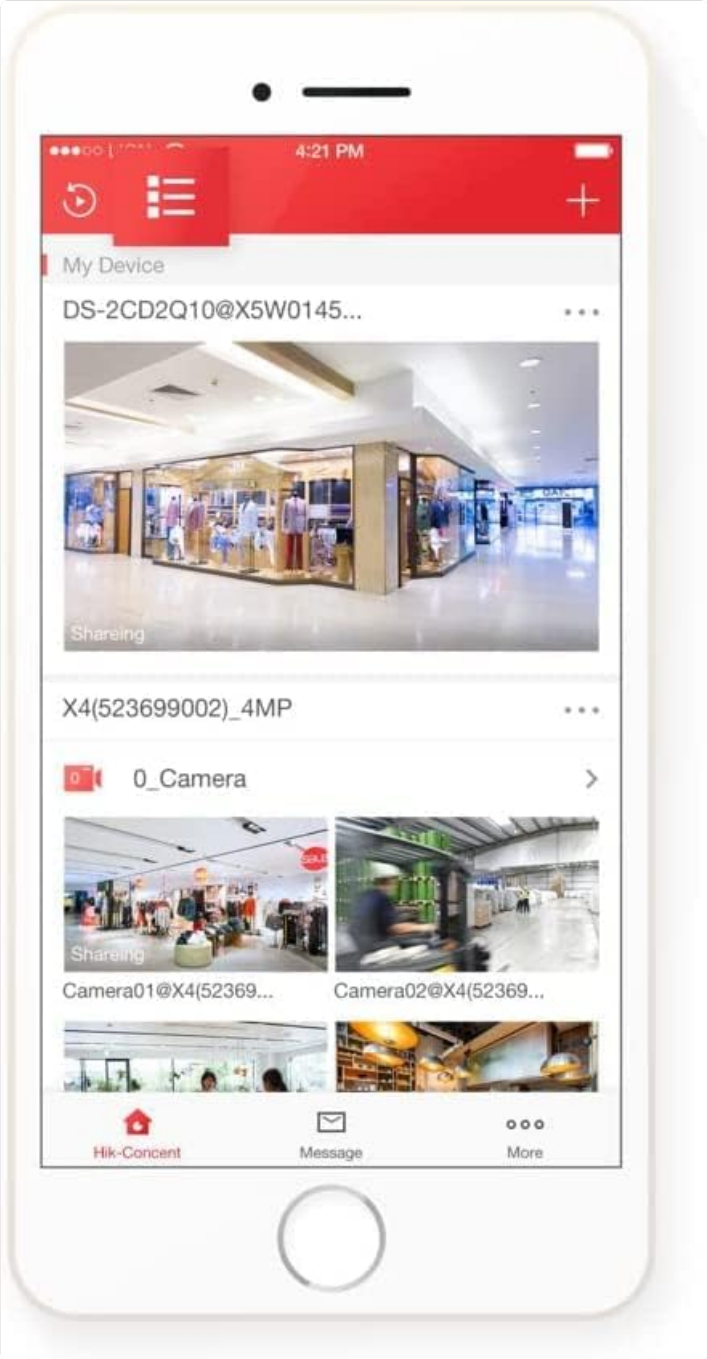


Image 3.5: A smartphone screen displaying the Hik-Connect mobile application interface, showing multiple camera feeds and device management options.

4. Maintenance

- **Cleaning:** Regularly clean the DVR's exterior with a soft, dry cloth. Do not use liquid or aerosol cleaners. Ensure ventilation openings are free from dust and obstructions.
- **Firmware Updates:** Periodically check for firmware updates to ensure optimal performance and security. Contact Real HD support for assistance with firmware upgrades.
- **Hard Drive Health:** Monitor the health of the hard drive through the DVR's system settings. Back up important footage regularly.
- **Environmental Conditions:** Ensure the DVR is operated within recommended temperature and humidity ranges to prevent damage.

5. Troubleshooting

Problem	Possible Cause	Solution
No video output on monitor.	Loose HDMI/VGA cable; Incorrect input selected on monitor; DVR not powered on.	Check cable connections; Select correct input source on monitor; Verify DVR power.
No network connection.	Ethernet cable disconnected; Incorrect network settings; Router issue.	Check Ethernet cable; Verify network settings in DVR; Restart router.
Cannot access DVR remotely via app.	DVR not connected to internet; Hik-Connect not enabled; Incorrect verification code.	Ensure DVR has internet access; Enable Hik-Connect in DVR settings; Verify verification code.
No recording or playback.	Hard drive not initialized/formatted; Recording schedule not set; Hard drive full.	Initialize/format HDD; Set recording schedule; Check HDD status and free space.
Poor image quality.	Camera resolution mismatch; Cable interference; Lens obstruction.	Check camera compatibility; Use quality cables; Clean camera lens.

6. Specifications

Below are the detailed technical specifications for the Real HD iDS-7216HQHI-M2/S DVR.

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	

Image 6.1: A comprehensive table detailing the specifications of the iDS-7208HQHI-M2/S and iDS-7216HQHI-M2/S models, including video compression, encoding resolution, input types, and output details.

Specification	iDS-7208HQHI-M2/S	iDS-7216HQHI-M2/S

Specification	iDS-7208HQHI-M2/S	iDS-7216HQHI-M2/S
Model	iDS-7208HQHI-M2/S	iDS-7216HQHI-M2/S
Motion Detection 2.0	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;	
Human/Vehicle Analysis	Up to 4-ch	
Video compression	H.265 Pro+/H.265 Pro/H.265/H.264+/H.264	
Encoding resolution (Main stream, 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: 3MP/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)	
Encoding resolution (Main stream, 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)	
Encoding resolution (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	
IP video input	2-ch (up to 10-ch) Enhanced IP mode on: 4-ch (up to 12-ch), each up to 4 Mbps. Up to 6 MP resolution. Support H.265+/H.265/H.264+/H.264 IP cameras	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
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	

Specification	iDS-7208HQHI-M2/S	iDS-7216HQHI-M2/S
HDCVI input	4 MP@25 fps, 4 MP@30 fps, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps	
HDMI output	1-ch, 1920 × 1080/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz	
VGA output	1-ch, 1920 × 1080/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz	
SATA	2 SATA interfaces, up to 10 TB capacity for each disk	
USB interface	Front panel: 1 × USB 2.0; Rear panel: 1 × USB 2.0 (for iDS-7208HQHI-M2/S) / 1 × USB 3.0 (for iDS-7216HQHI-M2/S)	
Alarm in/out	N/A (optional to support)	
Power supply	12 VDC, 3.3 A	

7. Warranty and Support

For technical support, firmware upgrade assistance, or warranty inquiries, please contact the seller, Real HD Store. You can typically find contact information for the seller on the product's purchase page or through your order history.
Note: Always refer to the official Real HD website or your purchase documentation for the most up-to-date warranty terms and conditions.

© 2023 Real HD. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B0BSKQRQJB

More documents and user manuals: **https://manuals.plus/**