Real HD iDS-7216HUHI-M2/S

Real HD iDS-7216HUHI-M2/S 16 Channel 4K 8MP HD-TVI DVR Instruction Manual

Model: iDS-7216HUHI-M2/S | Brand: Real HD

1. PRODUCT OVERVIEW

The Real HD iDS-7216HUHI-M2/S is a 16-channel HD CCTV DVR with additional support for IP cameras, offering 4K HDMI output. This hybrid recorder supports full channel recording at up to 8MP@8fps resolution and is designed for comprehensive surveillance solutions.

Key Features:

- Support Phone App for remote viewing.
- Supports up to 8MP HD-TVI, 4MP AHD, 2MP HD-CVI, 6MP IP CAMERAS (8ch), and regular analog cameras.
- Self-adaptive HD-TVI/HD-CVI/AHD/CVBS input.
- 4 RCA Audio Input for the first 4 Channel Recording.
- HDMI and VGA Output up to 3840 x 2160.

2. PRODUCT COMPONENTS

The DVR unit is designed for robust performance and ease of integration into existing surveillance systems. Below are visual representations of the device.

Figure 2.1: Front view of the Real HD iDS-7216HUHI-M2/S DVR unit, showcasing its sleek black design and front panel indicators.
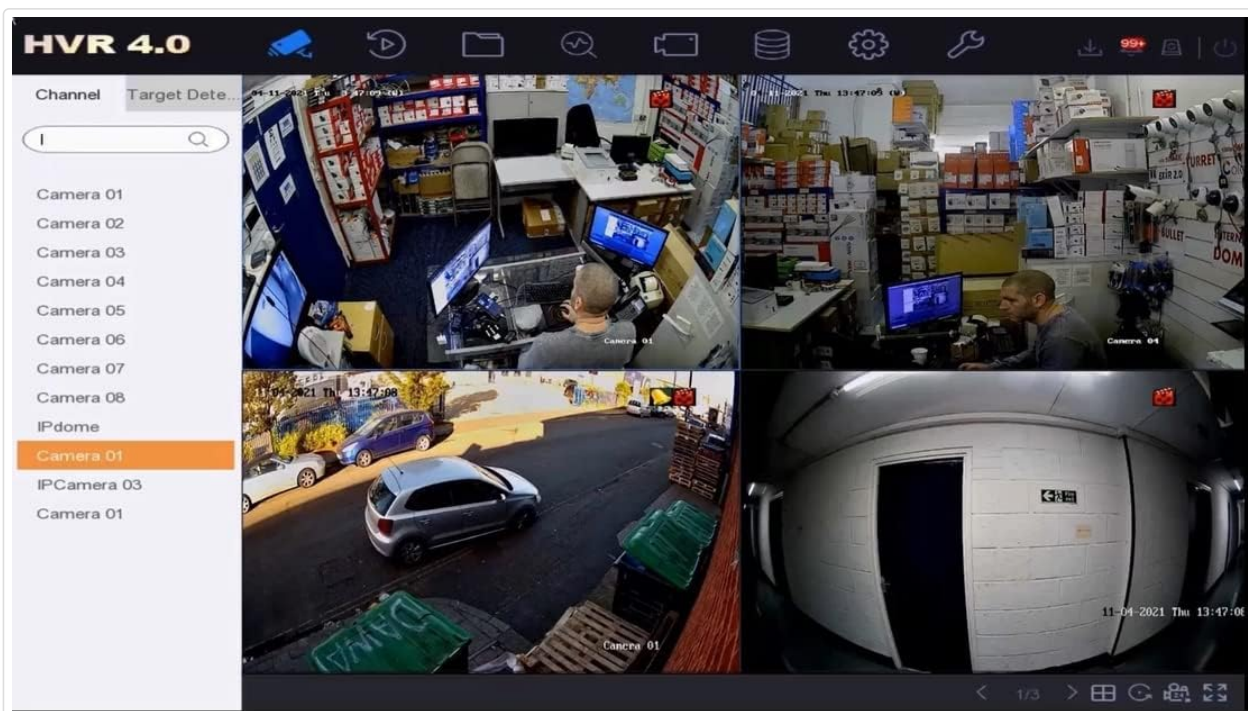

Figure 2.2: Rear panel of the DVR, displaying various input and output ports including BNC video inputs, HDMI, VGA, audio, and network ports.

3. SETUP AND INSTALLATION

3.1 Connecting the DVR

Follow these steps to connect your DVR to your surveillance system and network:

1. Connect your cameras to the BNC video input ports on the rear panel of the DVR.
2. Connect a monitor to the DVR using either the HDMI or VGA output port.
3. For remote access, connect the DVR to your network router using an Ethernet cable.
4. Connect the power adapter to the DVR and plug it into a power outlet.

Figure 3.1: Illustration of the DVR connected to a network router and various camera types, including HD-TVI, AHD, HD-CVI, and IP cameras.

4. OPERATION

4.1 Live View and Playback

Once connected, you can view live feeds and playback recorded footage through the connected monitor or the mobile application.

Figure 4.1: Screenshot of the HVR 4.0 software interface, displaying multiple live camera feeds from various surveillance points.
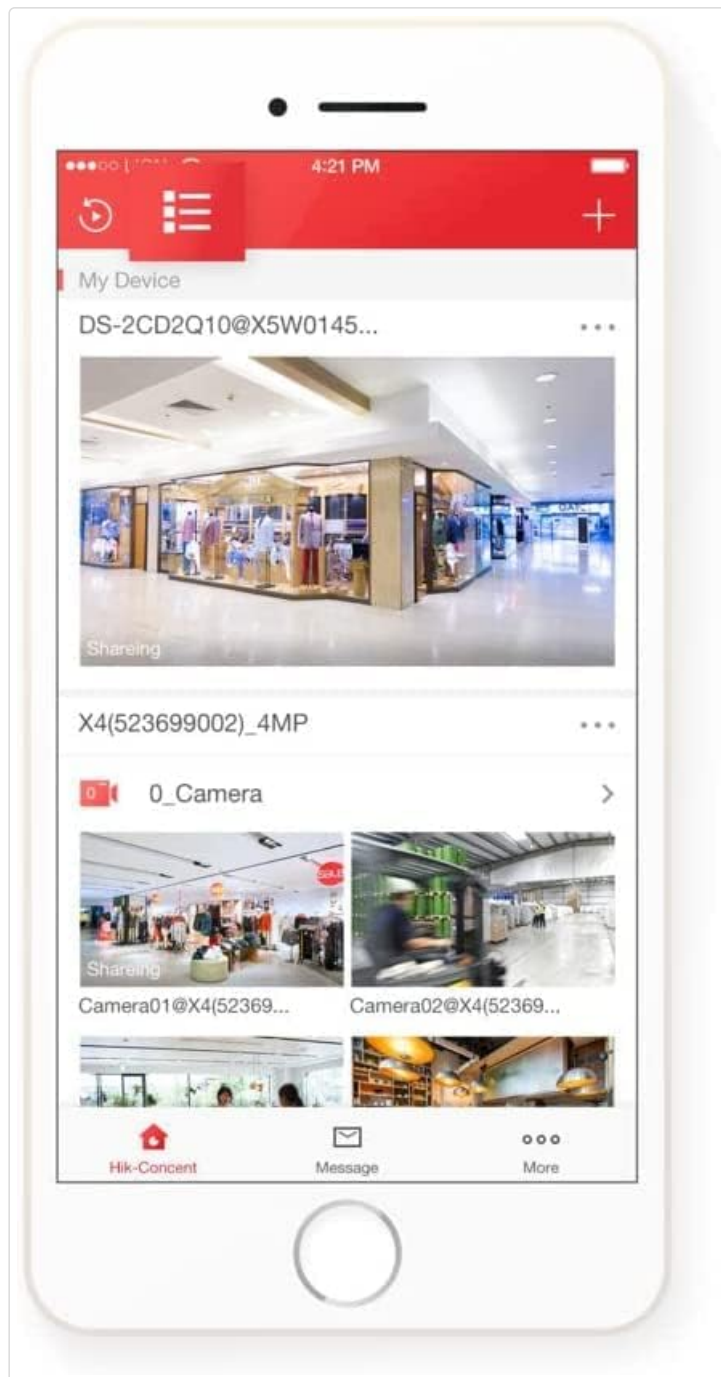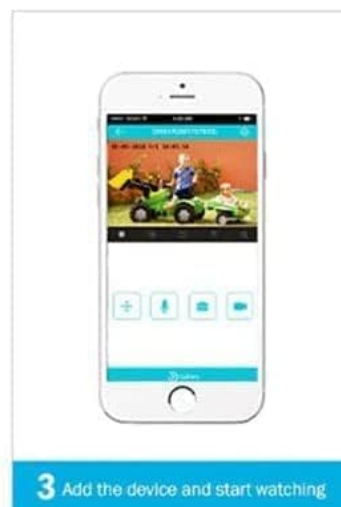
Figure 4.2: Screenshot of the HVR 4.0 software interface, illustrating the video playback function with a timeline for reviewing recorded footage.

4.2 Remote Access via Mobile App

The DVR supports remote access through a dedicated phone application. Follow the on-screen instructions in the DVR's network settings to connect your mobile device.

Easy 3-Step Remote Access

Watch live monitoring video. record and playback on smartphones, tablets and PCs. With just a few steps and a few settings, you can see whatever the cameras see from anywhere in this world where network is anailable.

Hik-Connect

1 Connect the NVR to the Internet

2 Download the Hik-Connect app

3 Add the device and start watching

Smartphone
FREE APP
"Hik-Connect"
lifetime free upgrade

Table
Android
IOS

View on PC

Figure 4.3: Screenshot of the HVR 4.0 network settings menu, featuring QR codes for downloading the mobile application and establishing remote access.

iDS-7200HUHI-M2/S SERIES TURBO ACUSENSE DVR

Key Feature

- Deep learning-based motion detection 2.0 for all analog channels
- Deep learning-based perimeter protection
- H.265 Pro+/H.265 Pro/H.265/H.264+/H.264 video compression
- HDTVI/AHD/CVI/CVBS/IP video inputs
- Audio via coaxial cable
- Up to 8/16/32-ch IP camera inputs (up to 8 MP)
- Up to 10 TB capacity per HDD

Compression and Recording

- H.265 Pro+ video compression improves encoding efficiency, and reduces data storage costs
- Recording at up to 8 MP resolution

Storage and Playback

- 2 SATA interfaces
- Smart search for efficient playback

Smart Function

- Deep learning-based motion detection, and perimeter protection (line crossing and intrusion detection)
- Support multiple VCA (Video Content Analytics) events for both analog and smart IP cameras

Network & Ethernet Access

- Compatible with major Wi-Fi dongle products in the market
- Hik-Connect & DDNS (Dynamic Domain Name System) for easy network management
- Output bandwidth limit configurable

Figure 4.4: A visual guide detailing three simple steps to set up remote access to the DVR via a mobile application, including connecting to the internet, downloading the app, and adding the device.

Specification

Model	iDS-7204HUHI-M2/S	iDS-7208HUHI-M2/S	iDS-7216HUHI-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: 8 MP@8 fps/5 MP@12 fps/3K@12 fps/4 MP@15 fps/8 MP Lite@15 fps/3 MP@18 fps 1080p/720p/WD1/4CIF/VGA/CIF@25 fps (P)/30 fps (N) ***: 8 MP@8 fps is only available for channel 1, 8 MP Lite is only available for channel 2 to channel 4.**	Main stream: 8 MP@8 fps/5 MP@12 fps/3K@12 fps/4 MP@15 fps/3 MP@18 fps 1080p/720p/WD1/4CIF/VGA/CIF@25 fps (P)/30 fps (N)	
	Sub-stream: WD1/4CIF/CIF@25 fps (P)/30 fps (N)		
Video bit rate	32 Kbps to 10 Mbps		
Dual stream	Support		
Stream type	Video, Video & Audio		
Audio compression	G.711u		
Audio bit rate	64 Kbps		
Video and Audio			
IP video input[2]	2-ch (up to 6-ch) Enhanced IP mode on: 4-ch (up to 8-ch), each up to 4 Mbps	4-ch (up to 12-ch) Enhanced IP mode on: 8-ch (up to 16-ch), each up to 4 Mbps	8-ch (up to 24-ch) Enhanced IP mode on: 16-ch (up to 32-ch), each up to 4 Mbps
	Up to 8 MP resolution		
	Support H.265+/H.265/H.264+/H.264 IP cameras		
Analog video input	4-ch	8-ch	16-ch
	BNC interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection		
HDTVI input	8 MP@15 fps, 5 MP@20 fps, 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	8 MP@15 fps, 5 MP@20 fps, 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	
AHD input	5 MP@20 fps, 4 MP@30 fps, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps		
HDCVI input	4 MP@30 fps, 4 MP@25 fps, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps		

Figure 4.5: A smartphone screen showing the mobile application's interface with multiple live camera feeds, demonstrating remote viewing capabilities.

5. TROUBLESHOOTING

5.1 No Video Display

If your cameras are not displaying video on the DVR, consider the following:

- **Check Camera Connections:** Ensure all camera cables are securely connected to the correct BNC input ports on the DVR.
- **Verify Camera Compatibility:** The DVR supports up to 8MP HD-TVI, 4MP AHD, 2MP HD-CVI, and 6MP IP cameras. Ensure your cameras are compatible with these formats and resolutions.
- **Power Supply:** Insufficient power can cause cameras not to display video. Verify that each camera is receiving adequate power from its power supply.
- **DVR Mode Settings:** Access the DVR's Main Menu > Mode to ensure the correct mode (e.g., Mixed Mode for wired and IP cameras) is selected.

6. SPECIFICATIONS

Feature	Detail
Video Compression	H.265 Pro+/H.265 Pro/H.265/H.264+/H.264
Encoding Resolution (8 MP Lite mode not enabled)	8 MP/5 MP/4 MP/3 MP/1080p/720p/WD1/4CIF/VGA/CIF
Encoding Resolution (8 MP Lite mode enabled)	8 MP Lite/3MP/1080P/720P/WD1/4CIF/VGA/CIF
Main Stream Frame Rate (8 MP Lite mode not enabled)	8 MP@8 fps/5MP@12 fps/4 MP@15 fps/3 MP@18 fps 1080p/720p/WD1/4CIF/VGA/CIF@25 fps (P)/30 fps (N)
Main Stream Frame Rate (8 MP Lite mode enabled)	8 MP Lite/3MP/1080P/720P/WD1/4CIF/VGA/CIF@15 fps
Sub-stream Frame Rate	WD1/4CIF/CIF@25fps (P)/30fps (N)
Video Bit Rate	32 Kbps to 10 Mbps
Dual Stream Support	Yes
Stream Type	Video, Video & Audio
Audio Compression	G.711u
Audio Bit Rate	64 Kbps
IP Video Input	16-ch (up to 32-ch), Up to 8 MP resolution, Support H.265+/H.265/H.264+/H.264 IP cameras
Analog Video Input	16-ch
HDTVI Input	8 MP, 5 MP, 4 MP, 3 MP, 1080p30, 1080p25, 720p60, 720p50, 720p30, 720p25
AHD Input	5 MP, 4 MP, 1080p25, 1080p30, 720p25, 720p30
HDCVI Input	4 MP, 1080p25, 1080p30, 720p25, 720p30
CVBS Input	PAL/NTSC
CVBS Output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480
VGA Output	1-ch, 1920×1080, 1280×1024, 1280x720, 1024x768/60Hz

Feature	Detail
HDMI Output	1-ch, 4K (3840 × 2160)/30Hz, 2K (2560×1440)/60Hz, 1920×1080/60Hz, 1280×1024/60Hz, 1280×720/60Hz, 1024×768/60Hz
Network Protocol	TCP/IP, PPPoE, DHCP, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP, HTTPS
Audio Input	4-ch, RCA(2.0 Vp-p, 1kΩ)
Audio Output	1-ch, RCA (Linear, 1kΩ)
Synchronous Playback	16-ch
Package Dimensions	20 x 18 x 8 inches
Item Weight	20 pounds
Manufacturer	Real HD
Connectivity Technology	BNC Coax Cable
Compatible Devices	Camera
Number of Channels	16
Media Format Digital Video	HDD

7. WARRANTY AND SUPPORT

Warranty and US-based Professional & Experienced Tech Support are provided exclusively by the seller. For any firmware upgrade assistance or other technical inquiries, please contact the seller directly.