Real HD UDVR-16CH2T

Real HD 1080P 16-Channel DVR Recorder User Manual

Model: UDVR-16CH2T | Brand: Real HD

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Real HD 1080P 16-Channel DVR Recorder. This device is a 5-in-1 hybrid digital video recorder designed for use with 2MP analog (AHD/CVI/TVI/CVBS) and up to 8 IP cameras, featuring a pre-installed 2TB surveillance hard drive and H.265 video compression for efficient storage. Please read this manual thoroughly before use to ensure proper setup and functionality.

2. Package Contents

Verify that all items are present in the package:

- Real HD 1080P 16-Channel DVR Recorder (UDVR-16CH2T) with 2TB HDD
- Power Adapter
- USB Mouse
- Quick Start Guide

3. Product Overview

The Real HD 1080P 16-Channel DVR is a versatile security recording solution. It supports various camera types and offers advanced recording features.

3.1 Key Features

- **5-in-1 Hybrid DVR:** Supports AHD, CVI, TVI, CVBS analog cameras, and up to 8 IP cameras.
- **1080P 2MP Resolution:** Designed for 2MP cameras or lower resolution. *Not compatible with 4K cameras.*
- **2TB Pre-installed HDD:** Provides ample storage for continuous recording.
- **H.265 Video Coding:** Offers longer recording times and saves storage space compared to H.264.
- **Plug and Play:** Simplifies installation by transmitting video, audio, and controls over a single coaxial cable for analog cameras.
- **Remote Access:** View live footage and recordings from anywhere, anytime, on various devices.

3.2 DVR Front Panel



Figure 3.2.1: Front view of the DVR with indicator lights.

The front panel typically includes indicator lights for power, network activity, and hard drive status. Refer to the detailed diagram for specific button and port locations.

3.3 DVR Rear Panel

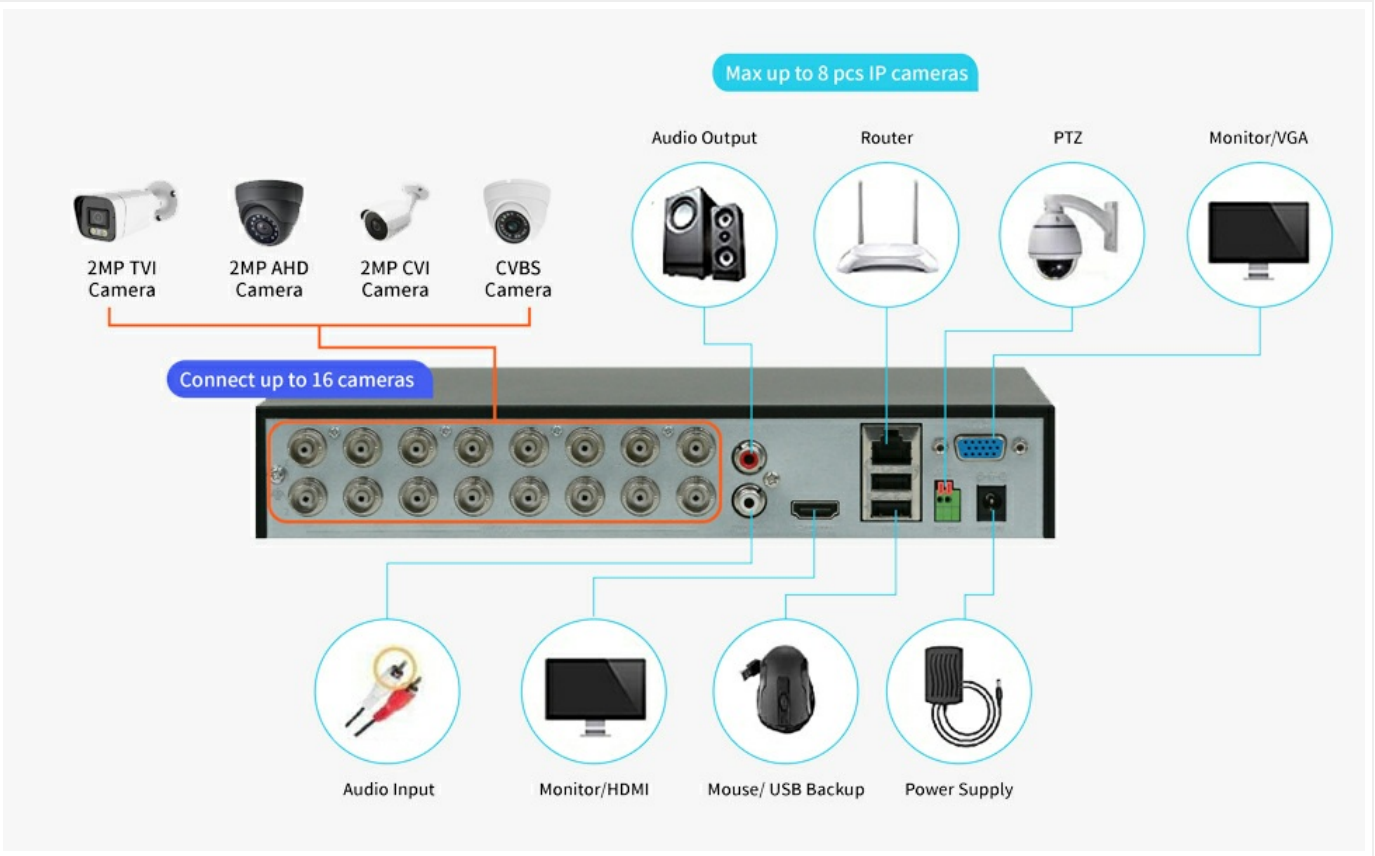


Figure 3.3.1: Rear panel connections of the DVR.

The rear panel contains all necessary connection ports, including 16 BNC video inputs for analog cameras, audio input/output, HDMI and VGA outputs for monitors, USB ports for mouse and backup, an Ethernet port for network connection, and the power input.

4. Setup Guide

Follow these steps to set up your DVR system:

1. **Connect Cameras:** Connect your analog CCTV cameras to the BNC video input ports on the rear panel of the DVR using coaxial cables. For IP cameras, connect them to your network router, and the DVR will detect them via the Ethernet connection.
2. **Connect Monitor:** Connect a monitor to the DVR using either an HDMI or VGA cable.
3. **Connect Mouse:** Plug the included USB mouse into one of the USB ports on the DVR.
4. **Connect to Network (Optional):** For remote viewing and network features, connect an Ethernet cable from the DVR's LAN port to your router.
5. **Connect Power:** Connect the power adapter to the DVR's power input and then plug it into a power outlet. The DVR will power on automatically.
6. **Initial Setup:** Upon first boot, the system will guide you through an initial setup wizard, including language selection, password creation, and network configuration.



Figure 4.1: The DVR's 5-in-1 hybrid compatibility with various camera types.

5. Operating Instructions

Once the DVR is set up, you can begin operating your security system.

5.1 Recording Modes

The DVR supports multiple recording modes to suit your surveillance needs:

- **24/7 Continuous Recording:** Records constantly, ensuring no moment is missed.
- **Motion Detection Recording:** Records only when motion is detected, saving storage space.
- **Schedule Recording:** Set specific times for recording.
- **Event Recording:** Records based on specific triggers or events.

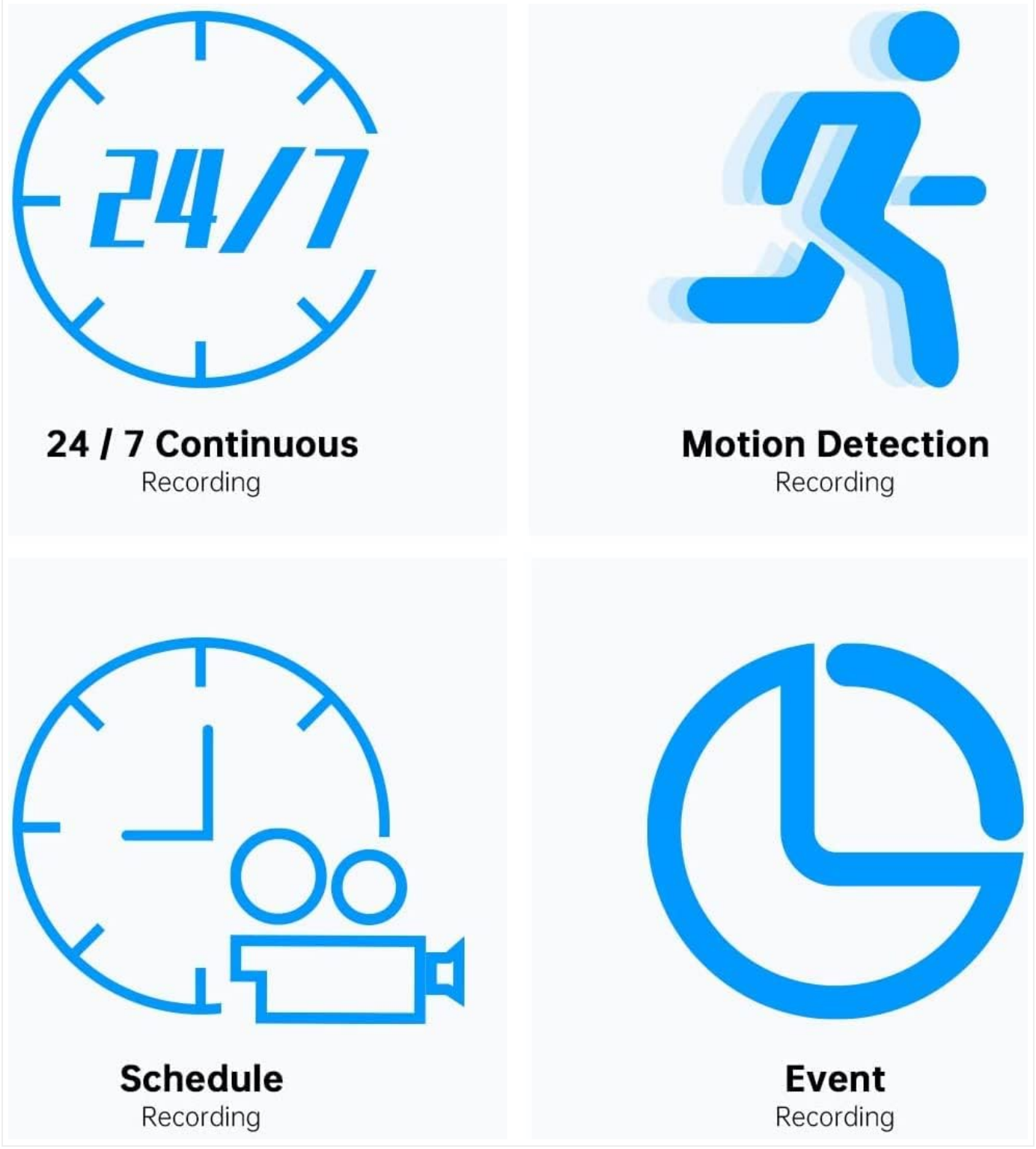


Figure 5.1.1: Available recording modes.

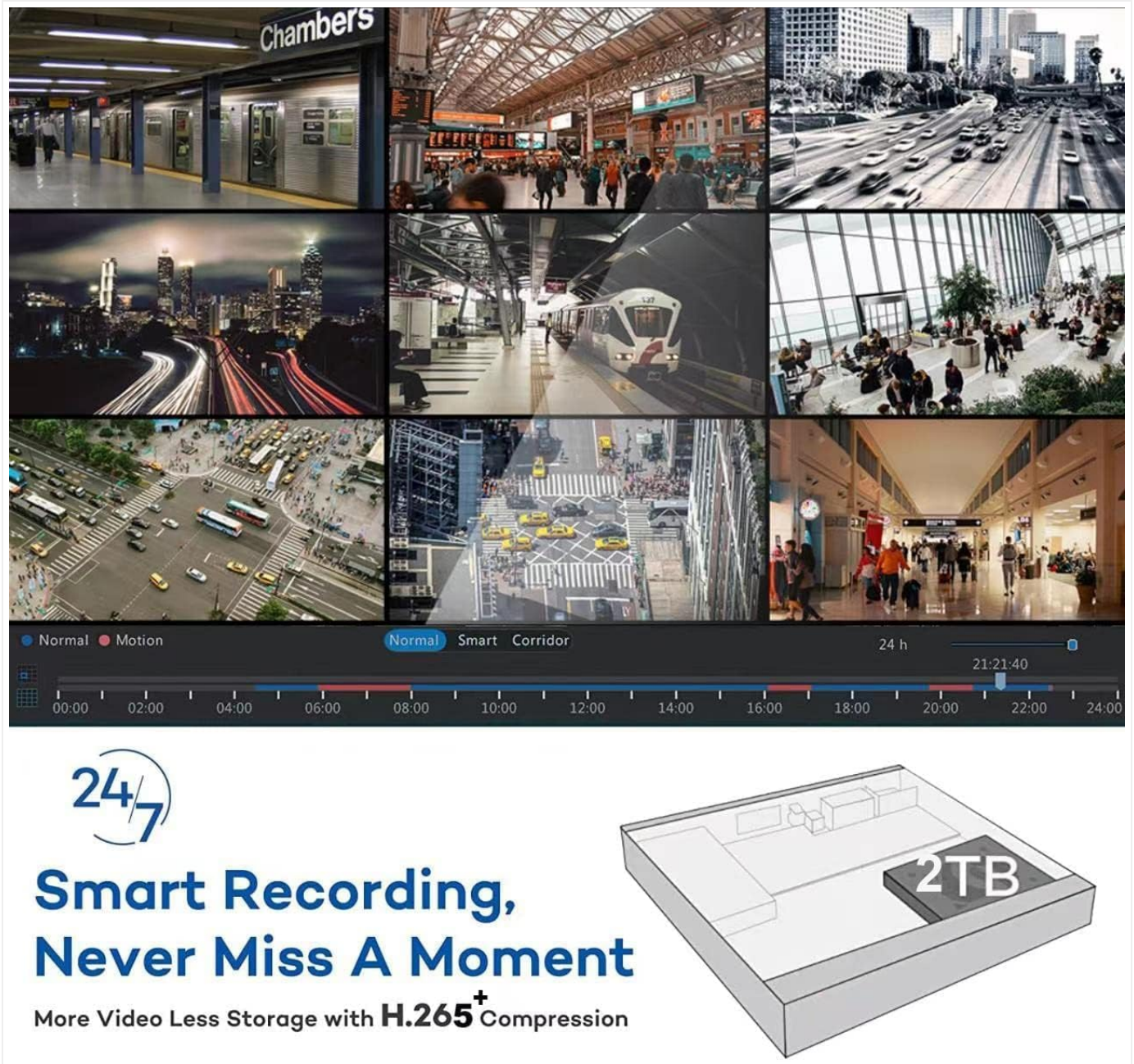


Figure 5.1.2: Smart Recording interface with H.265 compression.

5.2 Remote Access

To access your DVR remotely, ensure it is connected to your network. Download the official Real HD mobile application or use the provided PC software. Follow the in-app or software instructions to add your DVR using its unique ID or QR code.



Figure 5.2.1: Remote access on various devices.

6. Maintenance

Proper maintenance ensures the longevity and optimal performance of your DVR system.

- **Regular Cleaning:** Keep the DVR unit free from dust. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.
- **Ventilation:** Ensure the DVR has adequate ventilation to prevent overheating. Do not block ventilation openings.
- **Hard Drive Management:** The 2TB HDD will automatically overwrite the oldest footage when full. Regularly back up important recordings to an external USB drive if needed.
- **Firmware Updates:** Check the Real HD website periodically for firmware updates to improve system stability and features.

7. Troubleshooting

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No video signal on monitor	Loose cable connection, incorrect input source, camera power issue.	Check HDMI/VGA cable connections. Ensure monitor input is correct. Verify cameras are powered on and connected properly.
DVR not recording	Hard drive not detected, recording schedule not set, hard drive full.	Check hard drive status in system settings. Configure recording schedules. The 2TB HDD will overwrite oldest data when full.
Cannot access DVR remotely	Network connection issue, incorrect network settings, firewall blocking.	Verify DVR is connected to the internet. Check network settings (IP address, gateway, DNS). Ensure router firewall is not blocking access.
Poor image quality	Camera resolution mismatch, cable interference, dirty lens.	Ensure cameras are 2MP or lower resolution. Check cable quality and connections. Clean camera lenses.

If problems persist, please contact Real HD technical support.

8. Specifications

Technical specifications for the Real HD 1080P 16-Channel DVR Recorder (UDVR-16CH2T):

Feature	Detail
Model Number	UDVR-16CH2T
Video Inputs	16 Channels (BNC)
IP Camera Support	Up to 8 IP Cameras
Supported Analog Resolution	1080P (2MP) or Lower
Video Compression	H.265
Storage Capacity	2TB HDD (Pre-installed)
Video Outputs	HDMI, VGA
Audio Inputs/Outputs	Yes
Connectivity	Ethernet
Product Dimensions	10.2 x 8.6 x 1.9 inches
Item Weight	3.76 pounds

9. Warranty and Support

Real HD offers a 1-year warranty for this product. For technical assistance or warranty claims, please contact Real HD customer support. Our US local office provides technical support from 9 am to 5 pm CST.



Figure 9.1: Technical Support available.

Contact information can be found on the Real HD official website or through your purchase platform.

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