

Titanium ED8216H5-D

Titanium ED8216H5-D 16-Channel 5MP Hybrid Digital Video Recorder User Manual

Model: ED8216H5-D

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Titanium ED8216H5-D 16-Channel 5MP Hybrid Digital Video Recorder (DVR). This DVR supports TVI, AHD, and CVI video inputs up to 5MP resolution, along with IP camera inputs. It features an embedded Linux operating system, H.265 compression, 8 audio inputs, and versatile connectivity options including HDMI, VGA, and USB.

2. SAFETY INFORMATION

- **Power Supply:** Use only the specified power adapter (DC12V/4A). Ensure the power source is stable and meets the device's requirements.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the DVR to prevent overheating.
- **Environment:** Avoid exposing the DVR to extreme temperatures (-10~50°C), high humidity (10%~90%), dust, or direct sunlight.
- **Handling:** Handle the device with care. Avoid dropping or subjecting it to strong vibrations.
- **Maintenance:** Refer all servicing to qualified personnel. Do not attempt to open or repair the unit yourself.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Titanium ED8216H5-D DVR Unit
- Power Adapter
- USB Mouse
- Screws for HDD Installation
- User Manual (this document)

4. PRODUCT OVERVIEW

4.1 Front Panel



The front panel of the ED8216H5-D DVR features status indicators and a USB port for convenient access.

- **REC Indicator:** Illuminates when the DVR is actively recording.
- **NET Indicator:** Illuminates when the DVR has an active network connection.
- **USB Port:** Used for connecting a USB mouse, USB flash drive for backup, or other USB peripherals.

4.2 Rear Panel



The rear panel provides all necessary input and output ports for connecting cameras, monitors, audio devices, and network cables.

- **Video In (BNCx16):** Connects up to 16 TVI/AHD/CVI cameras.
- **Audio In (RCAX8):** Connects up to 8 audio input devices.
- **Audio Out (RCAX1):** Connects to an audio output device.
- **HDMI Output:** Connects to an HDMI-compatible monitor for high-definition video output.
- **VGA Output:** Connects to a VGA-compatible monitor.
- **LAN Port (RJ45):** Connects to your network for remote access and IP camera integration.
- **USB Ports (2xUSB2.0):** For mouse, backup devices, etc.
- **RS485:** For PTZ camera control.
- **Alarm In (16):** Connects to external alarm sensors.
- **Alarm Out (4):** Connects to external alarm devices.
- **DC12V Power Input:** Connects the power adapter.

5. SETUP

5.1 Hard Drive Installation

The DVR supports up to two SATA hard drives, with a maximum capacity of 10TB each. A hard drive is required for recording video.

1. Unscrew and remove the top cover of the DVR.
2. Connect the SATA data and power cables from the DVR to the hard drive(s).
3. Secure the hard drive(s) to the DVR chassis using the provided screws.
4. Replace the top cover and secure it with screws.

5.2 Connecting Peripherals

1. **Connect Cameras:** Attach your TVI/AHD/CVI cameras to the BNC video input ports (1-16) on the rear panel.
2. **Connect Monitor:** Connect a monitor to either the HDMI or VGA output port.
3. **Connect Mouse:** Plug the USB mouse into one of the USB ports on the front or rear panel.
4. **Connect Network:** Connect an Ethernet cable from your router/switch to the LAN port on the rear panel.
5. **Connect Audio (Optional):** If using external audio devices, connect them to the RCA audio input ports.
6. **Connect Power:** Plug the power adapter into the DC12V power input port, then plug the adapter into a power outlet. The DVR will power on automatically.

5.3 Initial Configuration

Upon first boot, the DVR will guide you through an initial setup wizard. Follow the on-screen prompts to set up basic parameters such as language, date/time, network settings, and hard drive formatting. Ensure the hard drive is formatted before recording.

6. OPERATING THE DVR

6.1 User Interface

The DVR features an intuitive graphical user interface (GUI) that can be navigated using the connected USB mouse. Right-click to access the main menu and various functions.

6.2 Recording Modes

The DVR supports multiple recording modes:

- **Manual Recording:** Start and stop recording manually.
- **Timer Recording:** Schedule recording periods based on specific times and days.
- **Motion Detection Recording:** Recording is triggered automatically when motion is detected in the camera's view.
- **Alarm Recording:** Recording is triggered by external alarm inputs.

6.3 Playback and Search

To review recorded footage:

- Access the Playback menu from the main interface.
- The DVR supports simultaneous playback of up to 8 channels.
- Use search options such as **Time Slice**, **Time**, **Event** (manual, motion), and **Tag Search** to quickly locate specific footage.
- **Smart Search:** This feature highlights recorded events in different colors on the timeline, allowing for quick identification of specific activities.

6.4 Remote Access

The DVR can be accessed remotely via various methods:

- **Web Browser (IE):** Access the DVR's interface through Internet Explorer for live view, playback, backup, PTZ control, and configuration.

- **CMS Software:** Use the provided Central Management Software for multi-device management and advanced features.
- **Mobile App:** Download the dedicated app for iOS and Android devices to view live feeds, play back recordings, and receive notifications. The app supports QRCode scanning for easy device addition.
- Network protocols like DHCP, DDNS, and PPPoE are supported for flexible network integration.

6.5 Backup

Recorded data can be backed up to a USB flash drive or via the network. Access the backup menu to select desired footage and initiate the backup process.

6.6 PTZ Control

For PTZ (Pan-Tilt-Zoom) cameras connected via RS485, the DVR supports up to 255 presets and 8 auto cruises, allowing for automated camera movements and monitoring.

7. MAINTENANCE

- **Regular Cleaning:** Keep the DVR free from dust. Use a soft, dry cloth to clean the exterior. Do not use liquid cleaners.
- **Firmware Updates:** Periodically check the manufacturer's website for firmware updates to ensure optimal performance and access to new features. Follow update instructions carefully.
- **Hard Drive Health:** Monitor the health of your hard drives through the DVR's system settings. Replace failing drives promptly to prevent data loss.
- **Password Security:** Regularly change your DVR's password to maintain security.

8. TROUBLESHOOTING

- **No Video Output:** Check monitor connections (HDMI/VGA), ensure the monitor is powered on and set to the correct input. Verify camera connections and power.
- **No Recording:** Ensure a hard drive is installed and formatted. Check recording schedules and motion detection settings. Verify camera functionality.
- **Network Connection Issues:** Verify the Ethernet cable connection. Check router/switch status. Ensure network settings (IP address, gateway, DNS) are correctly configured in the DVR.
- **Remote Access Failure:** Confirm network connectivity. Check port forwarding settings on your router if applicable. Verify DDNS settings. Ensure the mobile app or CMS software is correctly configured.
- **DVR Not Powering On:** Check the power adapter and power outlet. Ensure the power cable is securely connected to the DVR.

9. SPECIFICATIONS

Feature	Specification
Model Number	ED8216H5-D
Video Input	16 CH BNC (TVI/AHD/CVI 5MP/4MP/1080P/720P/WD1) + 8 CH IPC (5MP/4MP/3MP/1080P/960P/720P)
Video Compression	H.265
Operating System	Embedded Linux
Video Output	HDMI, VGA, CVBS

Audio Input	8 x RCA
Audio Output	1 x RCA
Internal HDD	2 x SATA (up to 10TB capacity each)
USB Ports	2 x USB2.0
Network Interface	1 x RJ45 (Ethernet)
RS485	1
Alarm Input	16
Alarm Output	4
Power Supply	DC12V/4A
Power Consumption	<15W (without HDD)
Operating Conditions	-10~50°C, 10%~90% (Humidity)
Dimensions (L x W x H)	380 x 268 x 52mm (14.96" x 10.55" x 2.05")

10. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or contact your retailer. Technical support is available through the manufacturer's official channels. Please have your model number (ED8216H5-D) and purchase details ready when contacting support.