

TOWODE DVR

TOWODE 8-Channel 5MP Hybrid DVR Security System User Manual

Model: DVR

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your TOWODE 8-Channel 5MP Hybrid DVR Security System. This system is designed for reliable surveillance, supporting various camera types and offering advanced features like AI human face detection and remote access. Please read this manual thoroughly before using the product to ensure proper setup and optimal performance.

KEY FEATURES

- **6-in-1 Hybrid DVR System:** Supports TVI, CVI, AHD, XVI, IP, and analog cameras with automatic signal detection for flexible integration.
- **8-Channel 5MP Super HD Video Input:** Records and displays up to 8 channels of 5MP (2592×1944) video for clear, multi-camera monitoring.
- **AI Human & Face Detection:** Advanced algorithms minimize false alarms by accurately detecting human bodies and facial features, sending real-time alerts via the iCSee app or email.
- **Local Recording & Remote Access:** Continuous local recording without internet. Remote live view and playback via iCSee app on smartphone, tablet, or PC when connected to a network.
- **500GB Pre-installed HDD with H.265+ Compression:** Includes a 500GB surveillance-grade hard drive, expandable up to 14TB. H.265+ compression saves up to 50% storage while maintaining video quality.
- **Multi-screen Display Modes:** Offers 1/4/8/9 screen display modes and HDMI output (max 2K) for versatile visual control.
- **Operating Conditions:** Designed for reliable operation in temperatures from 0–55°C.
- **Additional Functions:** Supports USB/network backup, dual USB ports, audio talk, and PTZ control.

CAMERA COMPATIBILITY AND RESOLUTION

The TOWODE DVR is a 6-in-1 hybrid system compatible with TVI, CVI, AHD, XVI, IP, and analog cameras. It automatically detects input signals for seamless integration.

6-in-1 Compatibility

CVBS TVI CVI XVI AHD IP

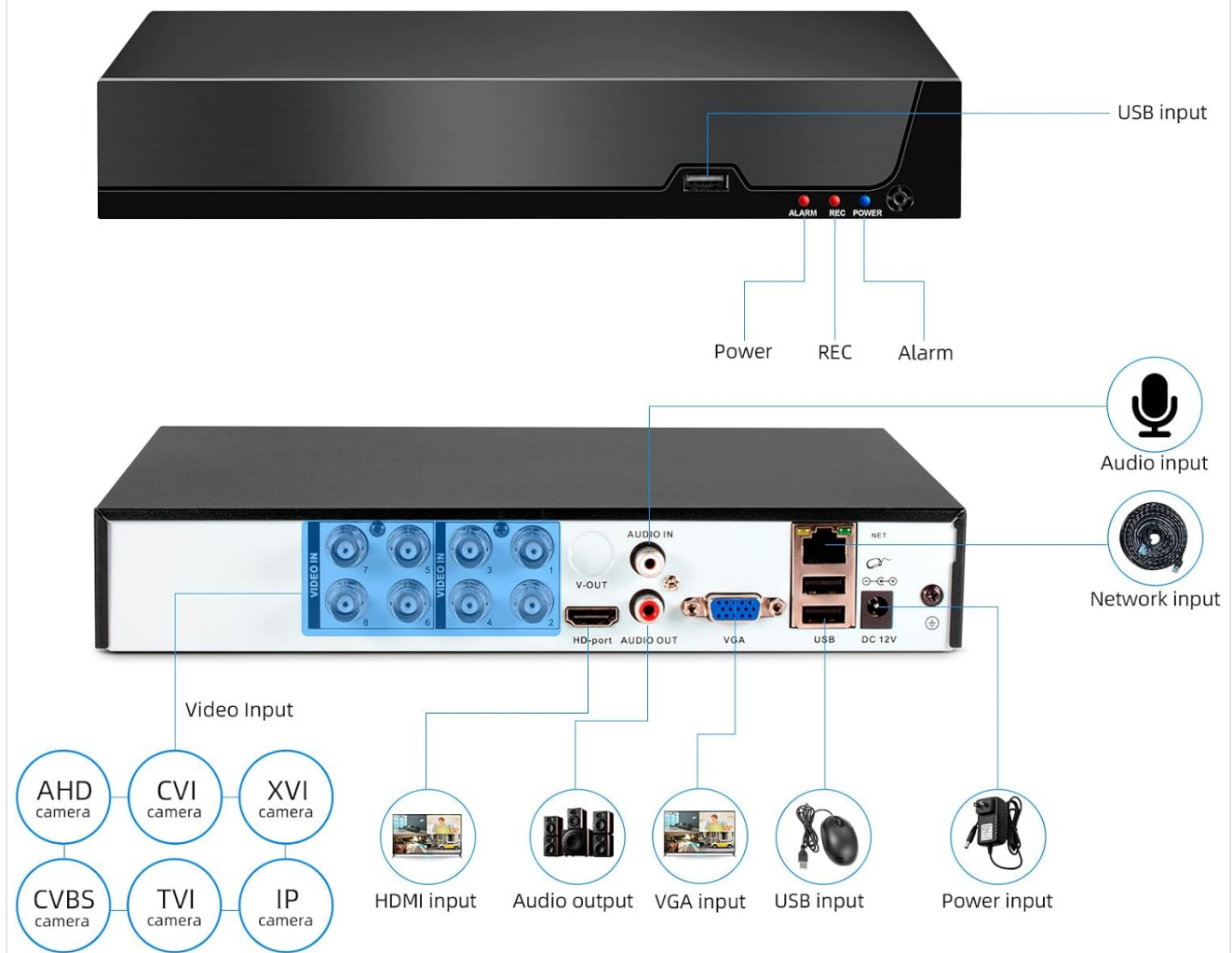


Image: Overview of the DVR's rear panel showing various input/output ports and compatible camera types (AHD, CVI, XVI, CVBS, TVI, IP).

Important Notice: Confirm Camera Compatibility Before Purchase

To avoid compatibility issues and ensure proper functionality, please confirm your camera's specifications meet the following requirements:

1. DVR Supported Specifications:

- 5MP (5MN): frame rate $\leq 12\text{fps}$
- 4MP (4MN): frame rate $\leq 15\text{fps}$

2. **HDMI Cable and Monitor Support:** Ensure your HDMI cable and monitor support HDMI 1.6 or higher. Incompatible HDMI versions may result in no signal or display issues.

3. **Resolution Mode Verification:** Confirm your camera's resolution and HDMI cable specifications match your monitor's HDMI interface. Refer to your camera's user manual or contact the camera vendor for specific details.

⚠ **Some cameras support multiple resolution modes (e.g., 5MN, 4MN, 3MN, 1080N). If this applies, please**

confirm with the camera seller how to switch the resolution mode. The selected mode must meet the supported resolution and frame rate listed above.



Image: Compatibility table for camera frame rates (fps) and supported resolutions (5MN, 4MN, 1080N).

WHAT'S IN THE BOX

Please check the package contents upon receipt to ensure all items are present:

- 1 x TOWODE 8-Channel DVR
- 1 x 500GB Surveillance Hard Drive (Pre-installed)
- 1 x DVR Power Supply
- 1 x USB Mouse
- 1 x Warning Stickers

What's in the Box



1 x 8CH DVR



1 x 500GB Surveillance HDD
(Pre-installed)



1 x DVR Power Supply



1 x USB Mouse



1 x Warning stickers

Image: Visual representation of the items included in the TOWODE DVR package, including the DVR unit, pre-installed 500GB HDD, power adapter, USB mouse, and warning stickers.

SETUP GUIDE

Follow these steps to set up your TOWODE DVR security system:

1. **Connect Cameras:** Connect your compatible security cameras to the video input ports on the rear of the DVR. The DVR supports TVI, CVI, AHD, XVI, IP, and analog cameras.
2. **Connect Monitor:** Connect a monitor to the DVR using either the HDMI or VGA port. Ensure your monitor and cable support HDMI 1.6 or higher for optimal display.
3. **Connect USB Mouse:** Plug the included USB mouse into one of the USB ports on the DVR for navigation.
4. **Connect Network (Optional for Remote Access):** For remote viewing and alerts, connect the DVR to your router using an Ethernet cable.
5. **Connect Power:** Connect the DVR power supply to the DVR and then to a power outlet. The system will power on automatically.
6. **Initial Configuration:** Follow the on-screen prompts to complete the initial setup, including setting up a password and configuring basic video settings.

Your browser does not support the video tag.

Video: This video demonstrates the basic setup and initial usage of the TOWODE DVR system, including connecting cameras, monitor, and navigating the interface.

OPERATION GUIDE

Live View and Recording

Once the DVR is powered on and cameras are connected, the system will automatically display live video feeds. You can switch between single-camera view and multi-camera grid views (1/4/8/9 channels) using the on-screen interface.

8-Channel 5MP/1080P Ultra HD

Supports 5MP (2592×1944) & 1080P (1920×1080) Resolution
for Clear, Multi-Camera Monitoring





5MP
5MP HD Lite



Motion Detection



H.265+



Remote View



500G HDD
(Pre-installed on DVR)

Image: A display showing an 8-channel multi-camera live view, demonstrating the system's ability to monitor multiple areas simultaneously in 5MP/1080P Ultra HD resolution.

The DVR continuously records footage to the pre-installed 500GB hard drive. Recording settings, such as continuous recording, scheduled recording, or motion-triggered recording, can be configured through the system menu.

Remote Access and Playback

For remote monitoring, download the **iCSee app** on your smartphone or tablet, or the VMS software for your PC. Register an account and add your DVR device using its unique ID or QR code. This allows you to view live feeds and play back recorded footage from anywhere with an internet connection.

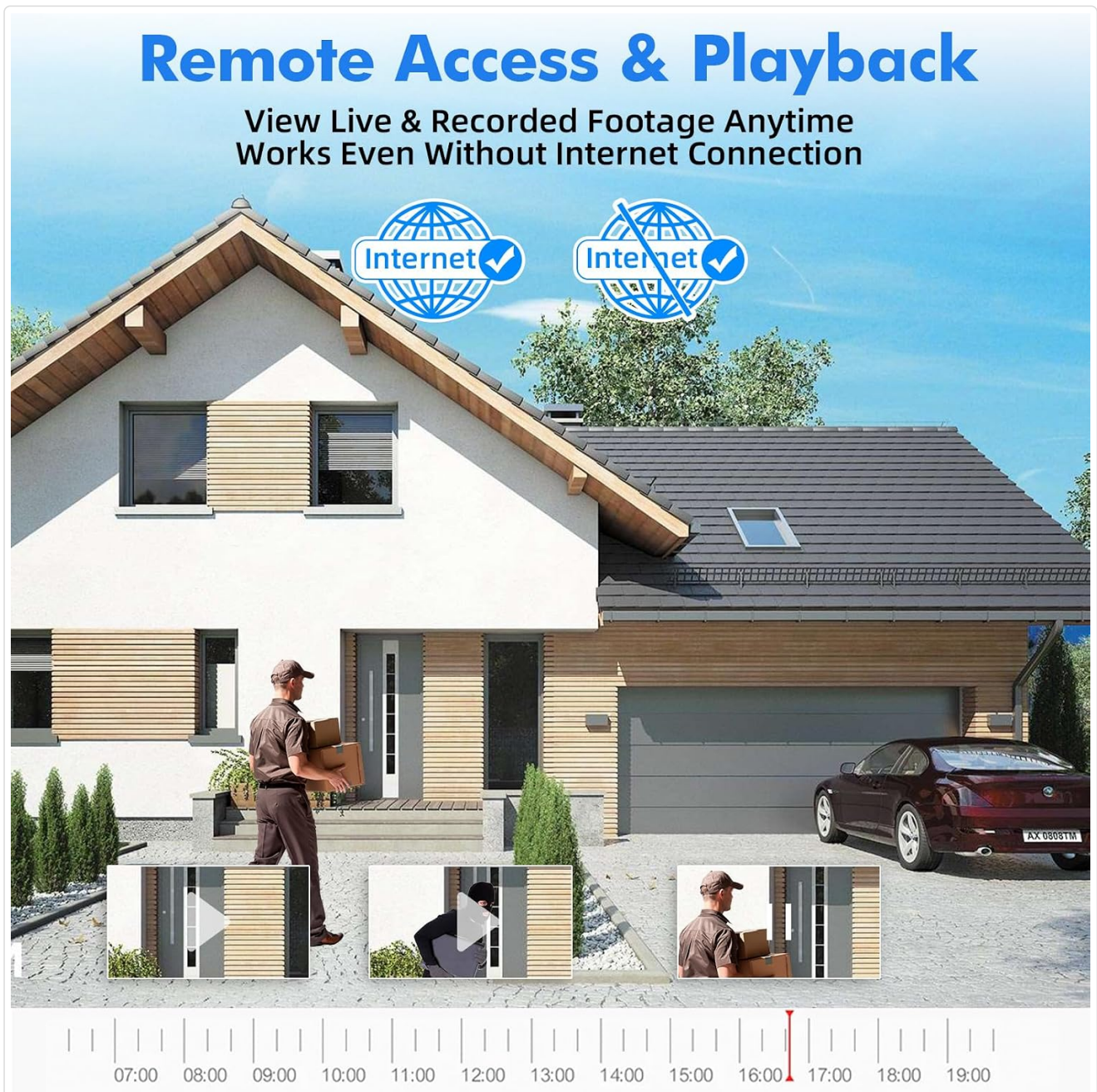
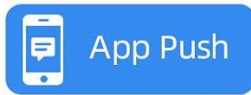


Image: Illustration demonstrating remote access and playback features, showing how users can view live and recorded footage via the internet, even when away from home.

AI Human & Face Detection

Real-Time Alerts & Auto Capture



APP:
XMEye and Icsee



PC:
Download VMS

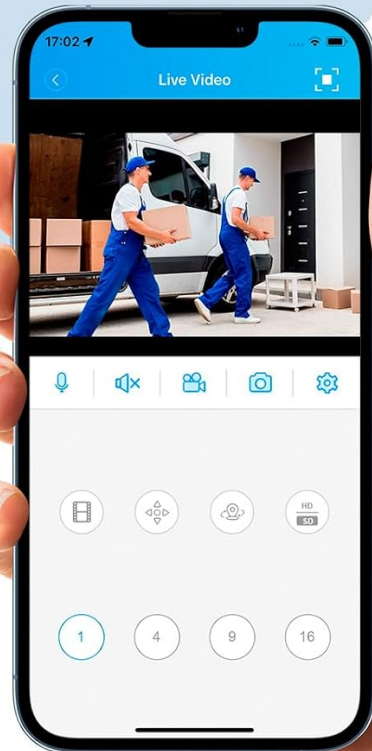


Image: Visual representation of the AI Human & Face Detection feature, highlighting real-time alerts via app push notifications and email, and showing the iCSee app interface for remote monitoring.

AI Human & Face Detection

The DVR features advanced AI algorithms for human body and facial feature detection. This reduces false alarms caused by non-human motion. When a human or face is detected, the system can send instant alerts and snapshots to your mobile device via the iCSee app or email.

H.265+ Video Compression

The system utilizes H.265+ video compression technology, which significantly reduces storage space requirements (up to 50% compared to H.264) while maintaining high video quality. This allows for longer recording times on the same hard drive capacity.

H.265+ Video Compression

50% Storage Savings & Enhanced Quality



Smooth
viewing



Reduced
memory space



H.265+

H.264

Storage Space

50%

Bandwidth Resources

50%

Loading Speed

100%

Storage Space

100%

Bandwidth Resources

100%

Loading Speed

50%

Image: A comparison illustrating the benefits of H.265+ video compression over H.264, showing 50% storage savings and enhanced quality for smoother viewing and reduced memory space.

MAINTENANCE

- **Regular Cleaning:** Keep the DVR unit and camera lenses clean from dust and debris to ensure optimal performance. Use a soft, dry cloth for cleaning.
- **Firmware Updates:** Periodically check the manufacturer's website for firmware updates to ensure your system has the latest features and security enhancements.
- **Hard Drive Management:** The DVR comes with a pre-installed 500GB surveillance-grade hard drive. It supports expansion up to 14TB. Regularly check the hard drive status through the DVR's menu to ensure sufficient storage space and proper functioning.

Pre-Installed 500GB Surveillance Hard Drive

Expandable Up to 14TB



Image: The DVR unit highlighting the pre-installed 500GB surveillance hard drive and its capability to be expanded with an external HDD up to 14TB.

- **Cable Connections:** Periodically inspect all cable connections (power, video, network) to ensure they are secure and free from damage.
- **Environmental Conditions:** Ensure the DVR is operated within the recommended temperature range of 0–55°C and in a well-ventilated area to prevent overheating.

TROUBLESHOOTING

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
No display on monitor / Power light flickering	Loose power connection, faulty power adapter, incompatible monitor/cable, DVR malfunction.	• Check all power connections. • Ensure the power adapter is functioning correctly. • Verify monitor and HDMI/VGA cable compatibility (HDMI 1.6 or higher). • Try a different monitor or cable. • If the issue persists, contact customer support.
No camera video feed	Loose video cable, camera power issue, incompatible camera, incorrect camera resolution mode.	• Check video cable connections to both camera and DVR. • Ensure cameras are powered on. • Verify camera compatibility with the DVR (TVI, CVI, AHD, XVI, IP, Analog). • Confirm camera resolution and frame rate meet DVR specifications (e.g., 5MP ≤ 12fps, 4MP ≤ 15fps). Adjust camera resolution mode if necessary.
Remote access not working	No network connection, incorrect app settings, firewall issues.	• Ensure the DVR is connected to the internet via an Ethernet cable. • Check your router and internet connection. • Verify DVR network settings and ensure it has a valid IP address. • Confirm correct device ID/QR code entered in the iCSee app. • Check for any firewall settings on your router that might be blocking access.
False alarms from motion detection	Standard motion detection triggered by non-human movement (e.g., pets, trees).	• Utilize the AI Human & Face Detection feature to filter out non-human motion. • Adjust motion detection sensitivity and detection zones in the DVR settings.

TECHNICAL SPECIFICATIONS

Feature	Detail
Brand	TOWODE
Model Number	DVR
Number of Channels	8
Video Input Types	TVI, CVI, AHD, XVI, IP, Analog (CVBS)

Feature	Detail
Max Video Input Resolution	5MP (2592×1944)
Video Compression	H.265+
Hard Drive	500GB Surveillance-Grade HDD (Pre-installed)
Max Storage Capacity	Up to 14TB (Dual SATA drives supported)
Connectivity Technology	Ethernet, HDMI, USB, VGA
Video Output	HDMI (max 2K), VGA
Audio Input	RCA
USB Ports	2
Remote Access App	iCSee
AI Features	Human Body & Face Detection
Operating Temperature	0–55°C
Product Dimensions (L x W x H)	10.04" x 8.39" x 1.69" (25.5cm x 21.3cm x 4.3cm)
UPC	768904900719

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official TOWODE website. If you encounter any issues not covered in this manual, please contact TOWODE customer service for assistance.

Manufacturer Contact Information: --- (Not provided in detail in product data)