

TOWODE A6504L2

TOWODE 4CH 5MP Hybrid 5-in-1 DVR Security Camera System User Manual

Model: A6504L2

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your TOWODE 4CH 5MP Hybrid 5-in-1 DVR Security Camera System. Please read this manual thoroughly before using the product to ensure proper setup and functionality. This system is designed to provide comprehensive surveillance for your property.

2. SAFETY INFORMATION

- Ensure all power connections are secure and correctly rated for the device.
- Do not expose the DVR to liquids or extreme temperatures.
- Handle the hard drive with care to prevent data loss or damage.
- Installation should be performed by qualified personnel if you are unsure about electrical wiring.
- Keep cameras and cables out of reach of children.
- Use only manufacturer-approved accessories and power adapters.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1x 4CH DVR recorder
- 2x 5MP HD Cameras
- 1x 1TB HDD (Pre-installed)
- 2x 15 meters integrated line (Video/Power cables)
- 2x 12V2A power supply

4. PRODUCT OVERVIEW

The TOWODE 4CH 5MP Hybrid 5-in-1 DVR Security Camera System provides robust surveillance capabilities with high-definition video recording and advanced features.

4.1 System Components



This image displays the main components of the security system: the 4-channel DVR unit, two 5MP bullet-style security cameras, and an icon representing the pre-installed 1TB hard drive. The DVR features various input/output ports on its rear panel, including video inputs, audio inputs/outputs, VGA, HDMI, USB, and network ports.

4.2 DVR Rear Panel and Camera Connections

5MP Hybrid 5-IN-1 Security Camera System



This image provides a detailed view of the DVR's rear panel, highlighting various connection ports such as BNC video inputs (VIDEO IN), audio input/output (AUDIO IN/OUT), VGA, HD-port (HDMI), USB, network (NET), and DC 12V power input. The image also shows a 5MP camera with its power and video output cables, indicating its IP66 weatherproof rating, 3.6mm lens, and up to 80 ft IR night vision capability.

5. SETUP

5.1 Physical Connection

1. **Connect Cameras:** Connect the BNC video cable from each 5MP camera to the 'VIDEO IN' ports on the rear of the DVR. Connect the camera's power cable to the provided 12V power supply.
2. **Connect Monitor:** Connect a monitor to the DVR using either the 'HD-port' (HDMI) or 'VGA' port.
3. **Connect Mouse:** Plug the USB mouse into one of the 'USB' ports on the DVR.
4. **Network Connection (Optional):** For remote viewing, connect an Ethernet cable from the 'NET' port on the DVR to your router.
5. **Power On:** Connect the DVR's power adapter to the 'DC 12V' input and then to a power outlet. The

system will power on automatically.

5.2 Initial Configuration

Upon first boot, the system will guide you through an initial setup wizard. This typically includes:

- Setting up an administrator password.
- Configuring date and time settings.
- Network settings (DHCP or static IP).
- Hard drive initialization (if prompted).

6. OPERATING INSTRUCTIONS

6.1 Recording Modes

The DVR supports various recording modes:

- **24/7 Continuous Recording:** The system records continuously. This mode ensures no moment is missed.
- **Motion Detection Recording:** Recording starts only when motion is detected, saving storage space.
- **Scheduled Recording:** Set specific times for recording.



Non-stop Recording

Record every second for maximum security
Supports 4 channel live screen



This image illustrates the 24/7 non-stop recording feature, showing a monitor displaying a 4-channel live view from various surveillance points, including a home, a warehouse, and a family playing. The DVR unit is visible below the monitor, emphasizing continuous security coverage.

6.2 Remote Access

You can access your security system remotely via mobile app or PC software.

- **Mobile App:** Download the recommended app (e.g., XMeye) from your smartphone's app store. Register an account, add your DVR by scanning the QR code or entering its ID, and view live feeds or playback.
- **PC Software:** Install the VMS software on your computer. Add the DVR using its IP address or cloud ID for remote monitoring.

6.3 Playback

To review recorded footage:

1. Access the 'Playback' menu on the DVR interface.
2. Select the desired date and camera channel.
3. Use the timeline to navigate and play back recordings.

Advanced Smart Playback

Never miss any wonderful moment!



This image illustrates the 'Advanced Smart Playback' feature, showing a timeline at the bottom with markers indicating recorded events. Above the timeline, various snapshots from different times are displayed, such as a person entering a door, a family walking, and a delivery. This feature allows users to quickly review specific moments.

6.4 Intelligent Alarm System

The system features intelligent human detection and alarm functions:

AI Motion Face Dection



This image demonstrates the AI Motion Face Detection feature. It shows a smartphone displaying a live video feed with a 'Motion Detection Alarm' notification from the XMEye app. In the background, two individuals are highlighted with detection boxes, indicating that the system has identified human presence and triggered an alert, which can be pushed to the app or sent via email.

When human motion is detected, the system can:

- Trigger an alarm.
- Send push notifications to your mobile phone.
- Send email alerts.

7. ADVANCED FEATURES

7.1 5-in-1 Hybrid DVR Compatibility

AHD/CVI/CVBS/TVI/IPC 5-IN-1 Camara

It is compatible with CVBS, CVI, IPC,AHD and TVI video output modes, while the default one is AHD 5MP.



CVBS Video Output



CVI Video Output



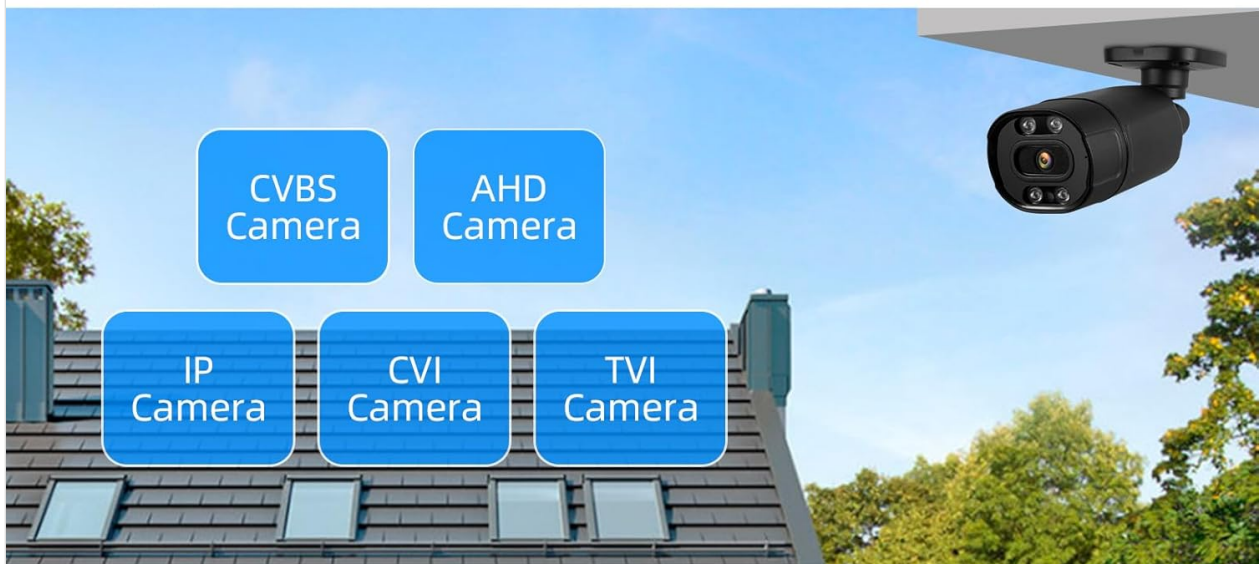
IPC Video Output



AHD Video Output



TVI Video Output



This image highlights the 5-in-1 Hybrid DVR's compatibility with multiple video output modes: CVBS, CVI, IPC (IP Camera), AHD, and TVI. It visually represents different camera types (CVBS, AHD, IP, CVI, TVI) that can be connected to the DVR, demonstrating its versatility. The default mode is AHD 5MP.

The DVR supports AHD/TVI/CVI/CVBS/IP camera 5-in-1 access mode, allowing flexibility in camera selection and integration with existing systems.

7.2 IP66 Weatherproof Cameras

IP66 Waterproof & Dustproof



This image showcases the IP66 Weatherproof and Dustproof rating of the security camera. It depicts a camera being hit by rain, with icons indicating its ability to withstand hot temperatures (up to 131°F/55°C) and cold temperatures (down to 14°F/-10°C), ensuring reliable outdoor performance in various weather conditions.

The included cameras are constructed from high-quality metal aluminum material with an IP66 rating, making them suitable for both indoor and outdoor use in various weather conditions.

7.3 H.265+ Efficient Video Compression

Advanced H.265+ Video Compression



Smooth
viewing



Reduced
memory space



H.265+

H.264

Fluency

Fluency

100%

100%

Storage Space

Storage Space

100%

100%

This image compares H.265+ and H.264 video compression technologies. It highlights that H.265+ offers smoother viewing and reduced memory space. Bar graphs illustrate that H.265+ provides 100% fluency and 100% storage space efficiency compared to H.264, which shows reduced fluency and higher storage consumption, demonstrating the superior efficiency of H.265+.

The DVR utilizes advanced H.265+ video compression technology, which significantly improves the compression ratio compared to H.264. This results in longer recording times and up to 80% storage savings, while maintaining high image quality and providing a smooth viewing experience.

7.4 Expandable Storage

Expandable Capacity

Worry-Free Backup



This image shows the DVR unit with a visual representation of a pre-installed 1TB HDD. Text overlays indicate 'Expandable Capacity' and 'Worry-Free Backup,' along with 'Up to 14TB External HDD,' signifying that the system's storage can be significantly expanded beyond the initial 1TB.

The system comes with a pre-installed 1TB hard drive. For extended recording needs, the DVR supports expandable storage up to 14TB via an external HDD.

8. MAINTENANCE

8.1 Cleaning

- **Cameras:** Periodically clean camera lenses with a soft, dry cloth to ensure clear image quality. For outdoor cameras, remove any dirt or debris from the housing.
- **DVR:** Keep the DVR free from dust. Use a soft brush or compressed air to clean ventilation openings. Do not use liquid cleaners directly on the unit.

8.2 Hard Drive Management

- The 1TB HDD is pre-installed and configured for continuous recording, overwriting the oldest footage when full.

- Regularly back up important footage to an external storage device (e.g., USB drive) if needed.
- Check the hard drive status in the DVR's system settings periodically to ensure proper functioning.

9. TROUBLESHOOTING

9.1 No Video Output on Monitor

- Check if the DVR is powered on.
- Verify that the monitor is powered on and set to the correct input source (HDMI/VGA).
- Ensure the HDMI/VGA cable is securely connected to both the DVR and the monitor.

9.2 Cameras Not Displaying Image

- Check if the camera's power adapter is connected and receiving power.
- Ensure the BNC video cable is securely connected to both the camera and the DVR.
- Verify the camera type is compatible with the DVR's current channel settings (AHD, TVI, CVI, CVBS, IP).

9.3 Remote Access Not Working

- Ensure the DVR is connected to the internet via an Ethernet cable.
- Check your router's internet connection.
- Verify network settings on the DVR (DHCP enabled or correct static IP).
- Confirm that the mobile app or PC software is correctly configured with the DVR's ID/IP address.

9.4 Hard Drive Not Recording

- Check the hard drive status in the DVR's system settings. It may need to be initialized or formatted.
- Ensure recording schedules are properly set up.
- Verify that motion detection settings are correctly configured if using that mode.

10. SPECIFICATIONS

Feature	Detail
Brand	TOWODE
Model Number	A6504L2
Connectivity Technology	Wired
Video Capture Resolution	1944p (5MP)
Special Features	App Control, Audio Recording, Human Detection, Motion Sensor
Number of Channels	4
Memory Storage Capacity	1 TB (Pre-installed)
Power Source	Corded Electric
Item Dimensions (L x W x H)	9.84 x 7.87 x 1.96 inches



Feature	Detail
Compatible Devices	Cameras, Personal Computers, Smartphones, Tablets
Night Vision Range	80 Feet
Frame Rate	25 fps
Recording Mode	Continuous, Motion Detection
Lens Type	Fixed (3.6mm)
Video Input	BNC (AHD/TVI/CVI/CVBS/IP 5-in-1)
Item Weight	7.3 pounds
Weatherproof Rating	IP66

11. WARRANTY AND SUPPORT

For technical support, troubleshooting assistance, or warranty inquiries, please refer to the contact information provided with your product packaging or visit the official TOWODE website. Keep your purchase receipt as proof of purchase for warranty claims.

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Related Documents - A6504L2

	<p>TOWODE Fingerprint Padlock: Setup, Usage, and Warranty Guide</p> <p>Comprehensive guide for the TOWODE fingerprint padlock, covering fingerprint setup, deletion, charging, low power alerts, warranty information, and customer support.</p>
	<p>TOWODE Water Detector User Manual: Operation and Battery Replacement Guide</p> <p>Comprehensive user manual for the TOWODE Water Detector, detailing product features, specifications, battery replacement steps, and warranty information. Learn how to effectively use and maintain your leak detection device.</p>