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> [Abowone 16 Channel 2MP 1080P Hybrid 6-in-1 DVR Security Digital Video Recorder \(Model NO-3216T\) User Manual](#)

Abowone NO-3216T

Abowone 16 Channel 2MP 1080P Hybrid 6-in-1 DVR Security Digital Video Recorder (Model NO-3216T)

User Manual

1. INTRODUCTION AND OVERVIEW

This manual provides detailed instructions for the installation, operation, and maintenance of your Abowone 16 Channel 2MP 1080P Hybrid 6-in-1 DVR Security Digital Video Recorder. This DVR supports up to 16 channels at 2MP resolution and is compatible with various camera types including Analog, AHD, TVI, CVI, CVBS, and IP cameras. It features advanced H.265+ video compression for efficient storage and offers remote access capabilities.



Figure 1: Front and Rear View of the Abowone Hybrid DVR. The front panel includes power, alarm, record indicators, and menu navigation buttons. The rear panel features 16 BNC video input ports, audio input/output, HDMI, VGA, USB, Ethernet, RS485, and DC12V power input.

Key features include customizable motion detection, email and message alerts, 24/7 non-stop video recording,

and support for audio recording even if your camera lacks a built-in microphone.

2. SETUP

2.1 Package Contents



Figure 2: Typical package contents including the DVR unit, power adapter, USB mouse, and user manual.

2.2 Hardware Installation

Before beginning, ensure the DVR is powered off. This DVR does not include a hard drive. It supports a 3.5" SATA hard disk drive (HDD) with capacities ranging from 350GB to 6TB. Install the HDD according to the instructions provided with your specific hard drive model.

Support XVI/AHD/TVI/CVI/CVBS/IP signal six-in-one access

Automatic recognition of camera signal, strong
compatibility and stability

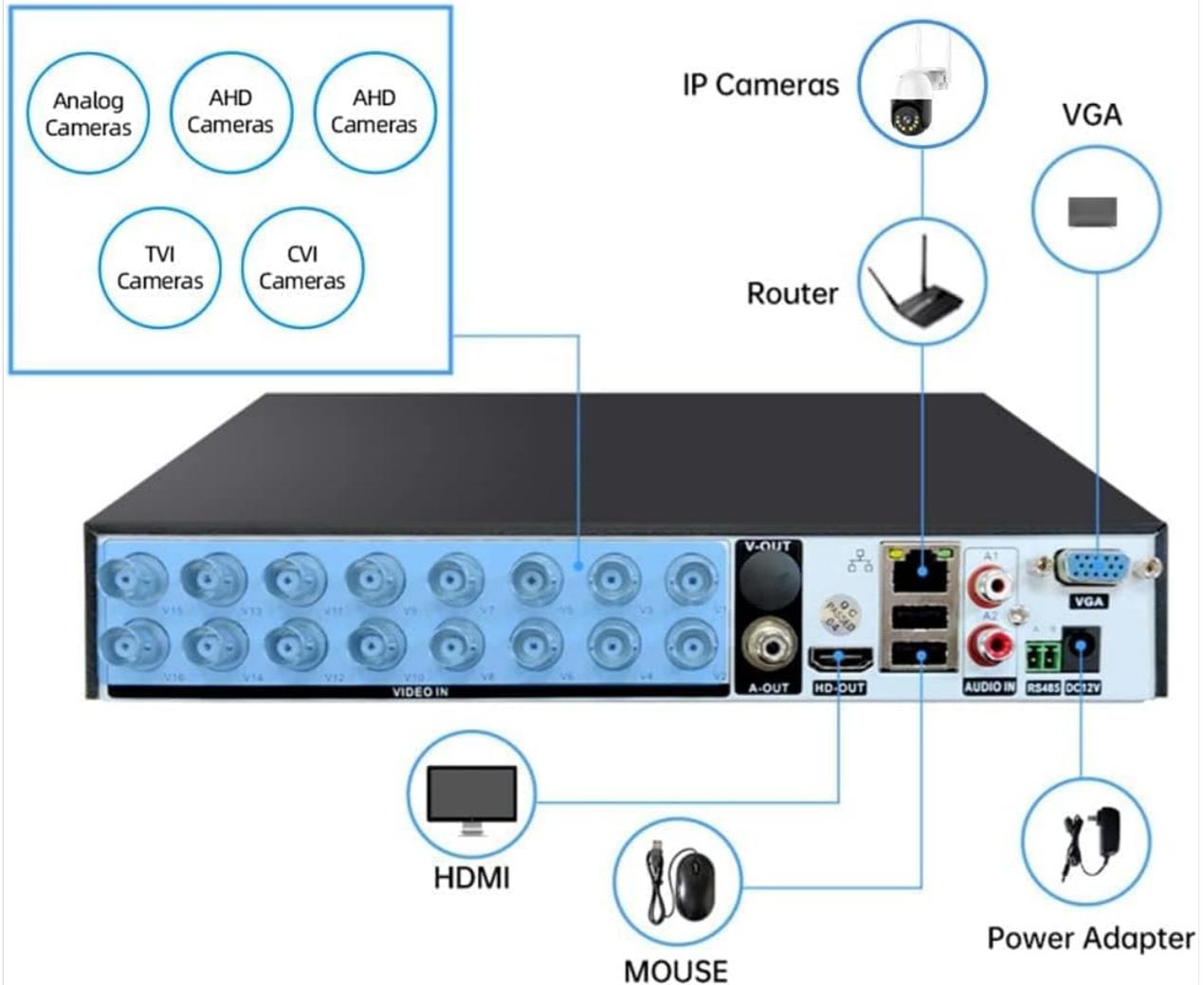


Figure 3: Connectivity Diagram. Connect your cameras to the BNC 'VIDEO IN' ports. Connect a monitor via HDMI or VGA. Plug in the USB mouse, Ethernet cable for network access, and the power adapter.

1. **Connect Cameras:** Attach your Analog, AHD, TVI, CVI, CVBS, or IP cameras to the corresponding BNC video input ports (V1-V16) on the rear panel.
2. **Connect Monitor:** Use an HDMI or VGA cable to connect the DVR to a display monitor.
3. **Connect Mouse:** Plug the USB mouse into one of the USB ports.
4. **Network Connection:** Connect an Ethernet cable from the DVR's LAN port to your router for remote access.
5. **Power On:** Connect the DC12V power adapter to the DVR and then to a power outlet. The DVR will power on automatically.

2.3 Initial Configuration and Video Standard Adjustment

Upon first power-up, you may need to adjust the video standard (PAL/NTSC) if you encounter a "PAL/NTSC ERROR" message on your screen. This is a common issue when the camera's video standard does not match the DVR's default setting.

Your browser does not support the video tag.

Video 1: How to adjust the camera's video standard on the DVR. This video demonstrates navigating the DVR menu to change the video standard from PAL to NTSC, resolving common display errors.

2.4 Remote Access Setup

The DVR supports quick remote access via a free mobile application (Xmeye Pro) and PC software (VMS/CMS).



Figure 4: Remote Access Setup. Scan the QR code displayed on the DVR's monitor to download the Xmeye Pro app. The app allows live view and playback on smart devices, while VMS/CMS software provides PC access.

1. **Download App:** Scan the QR code displayed on your DVR's monitor or search for "Xmeye Pro" in your mobile app store.
2. **Add Device:** Open the app, register an account, and add your DVR by scanning the device's QR code or manually entering its ID.
3. **PC Software:** For PC access, download and install the VMS or CMS software.

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Video 2: Quick Remote (Auto Connection). This video demonstrates the process of quickly connecting to the DVR via the mobile application for remote viewing.

3. OPERATING

3.1 Live View

You can view live camera feeds locally on a connected monitor or remotely via the Xmeye Pro app on your smartphone/tablet or VMS/CMS software on your computer.

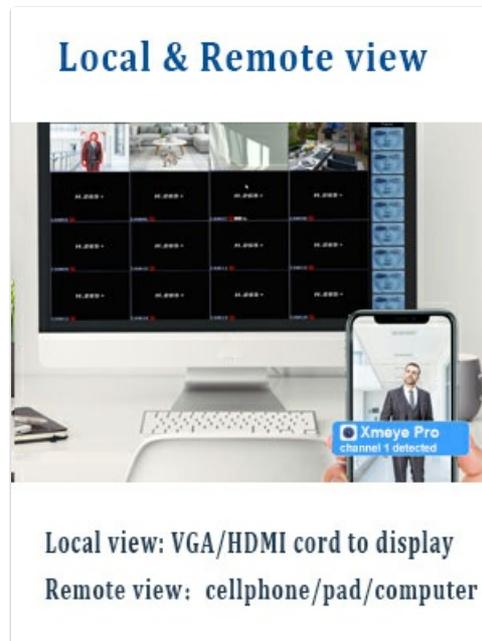


Figure 5: Local and Remote View. Local viewing is achieved by connecting the DVR to a monitor via VGA/HDMI. Remote viewing is available through the Xmeye Pro app on mobile devices or VMS/CMS on computers.

3.2 Recording

The DVR supports 24/7 non-stop video recordings. With advanced H.265+ video format, it offers smooth live streaming without latency and extended recording times. Compared to H.264 DVRs with the same HDD, H.265+ saves up to 60% storage space.

3.3 Motion Detection and Alerts

The DVR features customizable motion detection. You can define specific areas within the camera's view where motion will trigger an alert. When motion events occur in these customized areas, the DVR will push app notifications and send email alerts.

Customizable Detection Area

DVR will push app & email alerts when motion events happen in the customized areas



Figure 6: Customizable Detection Area. Users can define specific zones for motion detection, ensuring alerts are only triggered for relevant activity.

The system also includes intelligent AI face detection and human shape motion detection. When a human passes by the camera, the DVR system can quickly analyze and capture facial images, displaying them on the local DVR monitor and triggering app/email alarms.

FACE Detection



Figure 7: Face Detection. The DVR can detect and capture faces, displaying them for quick review and triggering alerts.

3.4 Playback

The DVR supports remote and local playback of recorded footage. The smart playback feature, combined with face record/playback, allows you to quickly find specific video segments based on detected faces or events.



Figure 8: Face Detection & Smart Playback. This interface allows users to quickly locate and review recorded footage based on face detection events.

3.5 Audio Recording

The DVR supports audio recording, even if your connected cameras do not have built-in microphones.

4. MAINTENANCE

4.1 Storage Management

The DVR utilizes H.265+ video compression technology, which significantly reduces storage requirements compared to older H.264 systems. This allows for longer recording times with the same hard drive capacity. The system supports a 3.5" SATA HDD up to 6TB. The DVR also features an overwrite function, automatically deleting the oldest footage to make space for new recordings once the hard drive is full.

Advanced H.265+ Video Compression

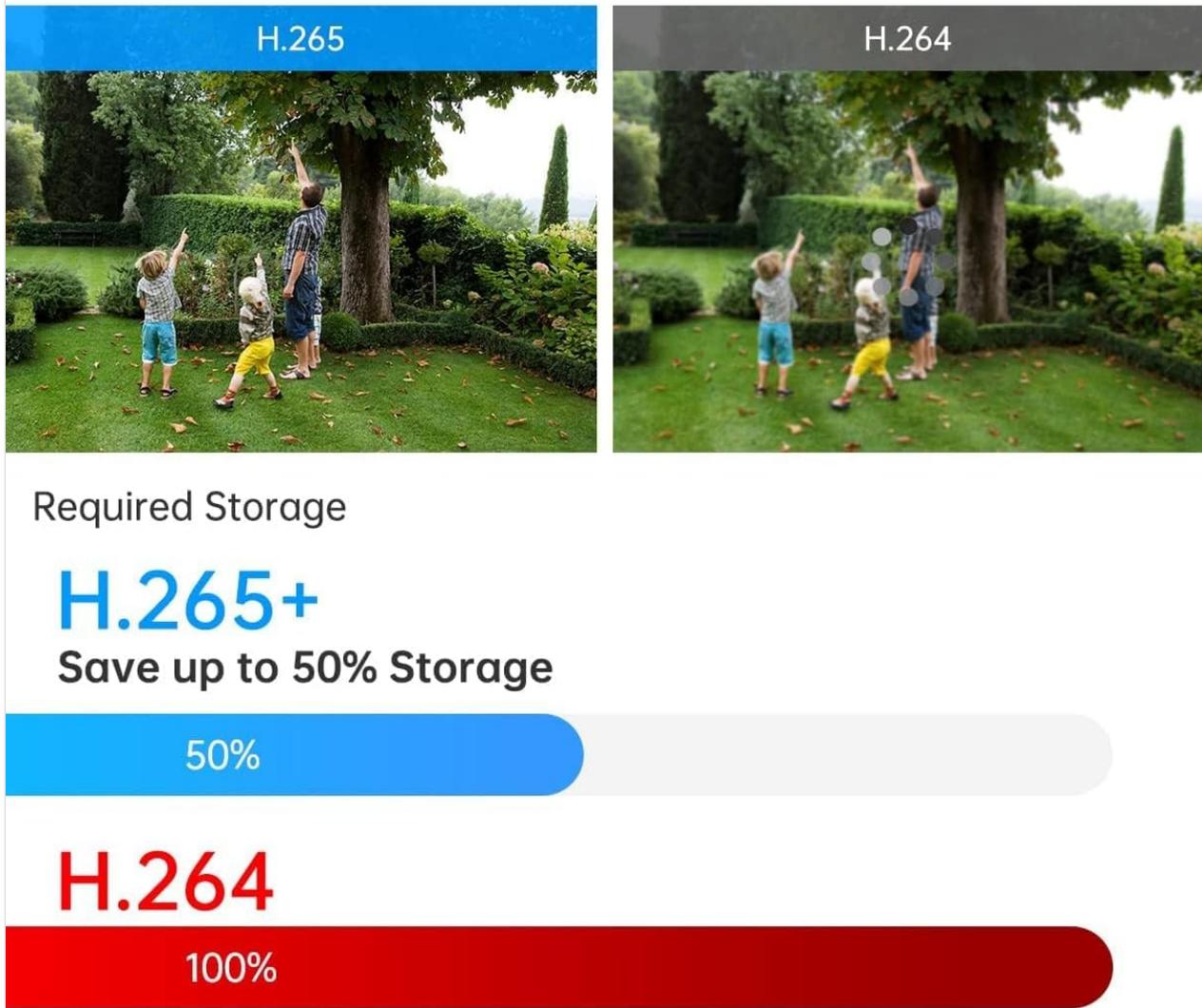


Figure 9: H.265+ Video Compression. H.265+ can save up to 50% of storage space compared to H.264, allowing for more extensive recording archives.

4.2 Cleaning

To maintain optimal performance, periodically clean the exterior of the DVR with a soft, dry cloth. Ensure the device is powered off and unplugged before cleaning. Do not use liquid cleaners or aerosols.

5. TROUBLESHOOTING

If you encounter issues with your Abowone DVR, please refer to the following common troubleshooting steps:

- **"PAL/NTSC ERROR"**: If this error appears on your monitor, the video standard of your camera may not match the DVR's setting. Refer to [Section 2.3 Initial Configuration and Video Standard Adjustment](#) for instructions on how to resolve this using the provided video guide.
- **No Video Signal**: Check all BNC cable connections from the cameras to the DVR. Ensure cameras are powered on. Verify the monitor connection (HDMI/VGA) and that the correct input source is selected on the monitor.
- **Remote Access Failure**: Ensure the DVR is connected to your network via an Ethernet cable. Verify your internet connection. Confirm that the Xmeye Pro app is correctly installed and the DVR device has been added using the correct ID or QR code. Check network settings on the DVR.
- **No Recording**: Ensure a compatible hard drive is installed and properly formatted. Check recording

schedules and settings within the DVR menu.

6. SPECIFICATIONS

Feature	Specification
Model Number	NO-3216T
Product Dimensions	10.24 x 8.86 x 1.97 inches (10.24"L x 8.86"W x 1.97"H)
Item Weight	3 pounds
Connectivity Technology	Ethernet, USB, VGA
Compatible Devices	Camera (Analog, AHD, IP, TVI, CVBS, CVI)
Memory Storage Capacity	Supports up to 6 TB (3.5" SATA HDD, not included)
Video Compression	H.265+
Max Resolution	2MP 1080P

7. WARRANTY AND SUPPORT

Abowone is committed to providing reliable security solutions. While specific warranty details are not provided in this document, if you encounter any issues with your DVR, Abowone support is available to assist you step-by-step. Please refer to the product packaging or the official Abowone website for the most current warranty information and contact details for technical support.

Abowone was established in 2014 and focuses on designing and manufacturing smart security devices, aiming to provide better security solutions and service to customers globally.