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KERUI 16CH 5MP Hybrid 6-in-1 DVR User Manual

Model: 16CH 5MP Hybrid 6-in-1 DVR

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your KERUI 16 Channel Security Recorder DVR. This device is a 5MP Hybrid 6-in-1 surveillance video recorder designed for robust security monitoring, supporting AHD/TVI/CVI/CVBS/IP XVI camera types with human detection and 24/7 recording capabilities.

What's in the Box:

- 1 x 16 Channel DVR
- 1 x 3TB Hard Drive (pre-installed)
- 1 x Power Adapter
- 1 x USB Mouse
- 1 x Quick Start Guide
- Screws for HDD installation (if not pre-installed)

2. IMPORTANT CAMERA COMPATIBILITY NOTICE

To ensure proper functionality and avoid compatibility issues, please confirm your camera's resolution and frame rate specifications before connecting to the DVR. Incorrect camera types or settings may prevent normal operation or display issues.

2.1. DVR Supported Specifications:

- **5MP (5MN)**: Frame rate \leq 12fps
- **4MP (4MN)**: Frame rate \leq 15fps
- **1080P (XVI)**: Frame rate \leq 15fps

Note: Ensure that both the HDMI cable and the monitor support HDMI 1.6 or higher. Using incompatible HDMI versions may result in no signal or display issues.

2.2. How to Verify Compatibility:

Before purchasing or connecting, verify that your camera specifications and HDMI cable specifications match those of your monitor (HDMI interface). Refer to your camera's user manual or contact the camera vendor directly for specific camera and HDMI specifications.

Important: Some cameras support multiple resolution modes (e.g., 5MN, 4MN, 3MN, 1080N). If this applies, 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: Table illustrating camera frame rate and resolution compatibility with the DVR. It shows support for 5MN, 4MN, and 1080N resolutions based on frames per second (fps).

3. SETUP AND INSTALLATION

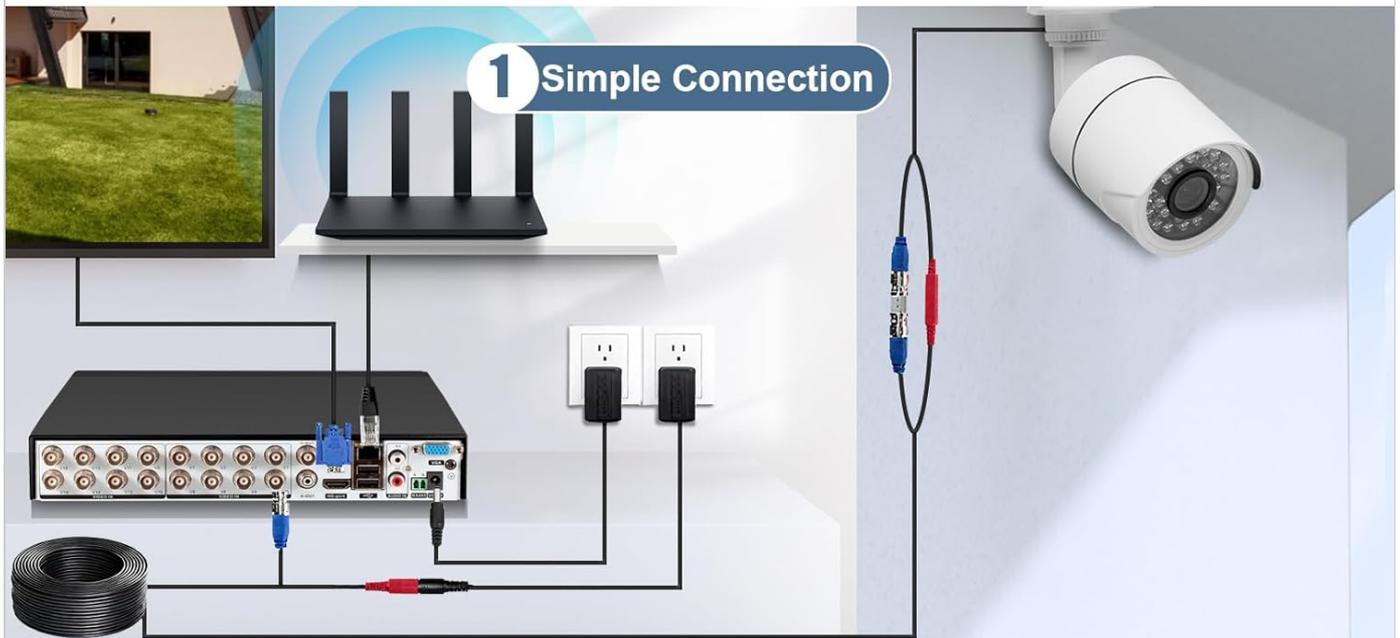
3.1. Initial Hardware Connection:

1. **Connect Monitor:** Plug the HDMI or VGA cable from your monitor into the corresponding port on the DVR.
2. **Connect USB Mouse:** Insert the USB mouse into one of the USB ports on the DVR.
3. **Connect Cameras:** Connect your surveillance cameras to the DVR's video input ports (V1-V16) using BNC cables. Ensure secure connections.
4. **Power On:** Connect the DVR power adapter to the DVR and then to a power outlet. The system will boot up.

Your browser does not support the video tag.

Video: This video demonstrates the physical connection process for the DVR, including connecting the monitor, USB mouse, camera video input cables, and power supply. It shows the initial boot-up sequence and menu navigation.

Free & Easy remote access



Note: The camera and router are not included.

2 Download Free XMeye pro App



3 Enjoy live view



Image: Diagram showing the rear panel of the DVR with various input/output ports labeled, including video inputs (V1-V16), VGA, HDMI, USB, Audio In/Out, Network, and Power input. This illustrates the hybrid 6-in-1 compatibility.

3.2. Network Connection for Remote Access:

To utilize remote monitoring features via the mobile application, the DVR must be connected to your network. If the network cable is not connected, remote access will not be available.

- 1. Connect Network Cable:** Plug an Ethernet cable into the network interface (RJ45 port) on the back of the DVR and connect the other end to your router or network switch.
- 2. Verify Connection:** Once connected, the network indicator lights on the DVR's network port should illuminate, indicating an active connection.

16CH DVR for 24/7 Surveillance

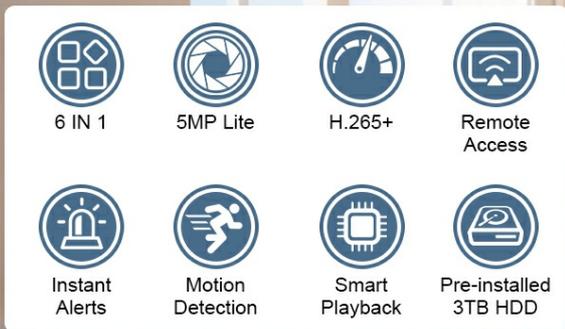


Image: Diagram illustrating the simple connection for remote access, showing the DVR connected to a router via an Ethernet cable, and a camera connected to the DVR. It also shows a smartphone displaying the live view from the camera.

4. OPERATION

4.1. Initial System Configuration:

Upon first boot-up, the system may prompt you for initial setup, including network settings (DHCP). Confirm these settings as appropriate for your network environment.

Navigate the DVR menu using the connected USB mouse. The main menu typically includes options for Record, Alarm, System, Advanced, Info, and Logout.

4.2. Mobile Application Setup:

To view your cameras remotely, download the XMEye Pro or Icssee application from your smartphone's app store (available on iOS and Android). Follow these steps to connect:

1. **Download App:** Search for "XMEye Pro" or "Icssee" in the App Store or Google Play.
2. **Register/Login:** Create an account or log in to the application.
3. **Add Device:** Tap the "+" icon to add a new device. You can scan the QR code displayed on your DVR's monitor (if available) or manually enter the device ID.
4. **View Live Feed:** Once the device is added, you can select cameras to view live feeds and access recorded footage.

16CH DVR for 24/7 Surveillance

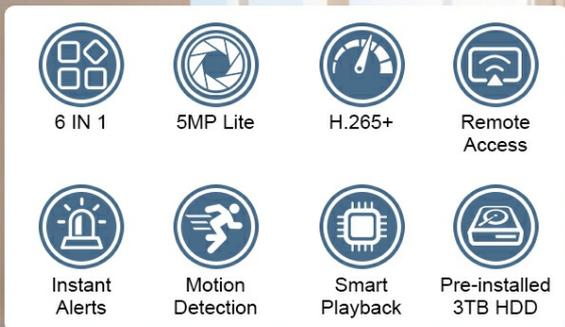


Image: Diagram showing the simple connection for remote access, including downloading the XMEye Pro app and enjoying live view. A QR code for app download is also visible.

Download XMEye app: <http://d.xmeye.net/Xmeye>



Image: Illustration of remote monitoring capabilities on various devices (smartphone, tablet, PC) showing live views from security cameras. Includes icons for App Store and Google Play downloads.

4.3. Recording and Playback:

The DVR supports 24/7 continuous recording with its pre-installed 3TB hard drive. It utilizes H.265+ encoding technology for efficient storage and improved image quality.

- **Recording:** Configure recording schedules and modes (continuous, motion-triggered) via the "Record" menu.
- **Playback:** Access recorded footage through the "Playback" option in the main menu. The smart playback function allows quick searching by date, time, or event type (person/vehicle).



Image: Depicts 24/7 non-stop recording and advanced smart playback features, showing a timeline with event markers for quick retrieval of specific moments.

Continuous 24/7 Recording & Time-saving Playback

Quick smart playback feature can help to locate human/vehicle events, never miss any wonderful moment!



Image: Compares H.265+ and H.264 video compression, highlighting that H.265+ requires less storage and offers longer recording times while maintaining video quality.

4.4. AI Intelligent Detection:

The DVR features advanced AI intelligent detection for people and vehicles, reducing false alarms.

- **Motion Detect:** Configure motion detection areas and sensitivity levels to focus on critical zones.
- **Human/Vehicle Detect:** Receive notifications (app push, email, text message with snapshot) when human or vehicle activity is detected.

Advanced H.265+ Video Compression

Technology H.265+ video compression can save up to 80% storage and record longer time compared to H.264

Feature	H.265+	H.264
Smooth viewing	50%	100%
Faster Downloads	50%	100%
Reduced Storage	100%	50%

A comparison graphic showing H.265+ and H.264 video compression. The H.265+ side shows a person walking, a DVR unit, and three blue progress bars for 'Smooth viewing' (50%), 'Faster Downloads' (50%), and 'Faster Downloads' (100%). The H.264 side shows a similar scene, a DVR unit, and three red progress bars for 'Smooth viewing' (100%), 'Faster Downloads' (100%), and 'Faster Downloads' (50%).

Image: Illustrates AI motion detection distinguishing between humans and vehicles, showing app notifications for detected events.

5. MAINTENANCE

5.1. Hard Drive Management:

The DVR comes with a pre-installed 3TB hard drive and supports expansion up to 14TB. Regular maintenance ensures optimal recording performance.

- **Hard Drive Identification:** If the hard disk is not identified, check if the hard disk port is disconnected. Reinsert the hard disk port if necessary.
- **Formatting:** If the system detects no storage space, the hard disk may need to be formatted. In some cases, it

might need to be formatted twice. Access hard drive settings via the "Storage" menu under "Advanced".

Vast Storage Expansion

Please Note

If the hard disk cannot be identified, please check whether the hard disk port is disconnected. If yes, reinsert the hard disk port.
if the system detects no storage space, the customer needs to format the hard disk in the DVR first, and it needs to be formatted twice.



Pre-installed
3TB



*Up to 14TB
External HDD*

Image: Shows the DVR with a pre-installed 3TB hard drive and indicates support for up to 14TB external HDD expansion. Includes a note about troubleshooting hard drive identification and formatting.

5.2. System Updates:

Periodically check for firmware updates to ensure your DVR has the latest features and security enhancements. Updates can typically be found in the "Upgrade" section under "Advanced" in the main menu.

6. TROUBLESHOOTING

6.1. No Video Signal on Monitor:

- **Check Cables:** Ensure HDMI/VGA cables are securely connected to both the DVR and the monitor.
- **Monitor Input:** Verify the monitor is set to the correct input source (HDMI/VGA).
- **Compatibility:** Confirm that your monitor and HDMI cable meet the required specifications (HDMI 1.6 or higher).

- **Camera Power/Connection:** Ensure cameras are powered on and correctly connected to the DVR's video input ports.

6.2. Remote Access Issues:

- **Network Connection:** Verify the DVR is connected to the internet via an Ethernet cable and that your router has an active internet connection.
- **App Login:** Ensure you are logged into the correct account on the mobile application.
- **Device Added:** Confirm the DVR device has been successfully added to your mobile application.
- **Firewall/Router Settings:** Check your router's firewall settings to ensure they are not blocking the DVR's access to the internet. Port forwarding may be required in some network configurations.

6.3. Hard Drive Not Detected/Recording:

- **Physical Connection:** Power off the DVR, open the casing, and ensure the hard drive's data and power cables are securely connected.
- **Formatting:** Access the "Storage" menu in the DVR settings and format the hard drive. If issues persist, try formatting it a second time.
- **Hard Drive Health:** If the issue continues, the hard drive may be faulty and require replacement.

7. SPECIFICATIONS

Feature	Specification
Model	16CH 5MP Hybrid 6-in-1 DVR
Video Inputs	16 Channels (AHD/TVI/CVI/CVBS/IP XVI)
Max Resolution	5MP (2592x1944 pixels)
Video Compression	H.265+
Hard Disk Size	3 TB (pre-installed)
Memory Storage Capacity	Up to 14 TB (External HDD support)
Connectivity Technology	Ethernet
Compatible Devices	Cameras (AHD/TVI/CVI/CVBS/IP XVI)
AI Features	Human Detection, Vehicle Detection
Remote Access	iOS/Android App (XMEye Pro, Icssee), PC (VMS)
Package Dimensions	11.18 x 7.87 x 1.96 inches
Item Weight	2.4 pounds

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official KERUI website. You may also contact the seller directly for assistance.

Return Policy: This product is eligible for a 30-day refund/replacement policy.

Protection Plans: Extended protection plans are available for purchase. Please refer to the product listing for details on 2-Year, 3-Year, and Complete Protect options.