

SECULINK AVR7816L-ME

SECULINK 16-Channel 5MP Lite 5-in-1 DVR User Manual

Model: AVR7816L-ME

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your SECULINK 16-Channel 5MP Lite 5-in-1 Digital Video Recorder (DVR). This DVR is designed to provide a comprehensive security solution, supporting various camera types including AHD, TVI, CVI, Analog, and IP cameras. Please read this manual thoroughly before using the product to ensure proper setup and functionality.

2. SAFETY INFORMATION

- Ensure the power supply matches the voltage requirements specified for the DVR.
- Do not expose the DVR to water or moisture.
- Avoid placing the DVR in direct sunlight or near heat sources.
- Do not open the DVR casing; refer all servicing to qualified personnel.
- Use only approved accessories and power adapters.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x SECULINK 16-Channel 5M-N AHD DVR XVR
- 1x Power Adapter
- 1x USB Mouse
- 1x User Manual (this document)

4. PRODUCT OVERVIEW

4.1 Front Panel

The front panel of the DVR typically includes status indicator lights (Power, HDD, Alarm), and navigation buttons for menu control. Some models may also feature a USB port for easy access.



Image: Front view of the SECULINK 16-Channel DVR, showing indicator lights and control buttons.

4.2 Rear Panel Connections

The rear panel provides all necessary ports for connecting cameras, monitors, network, and power.

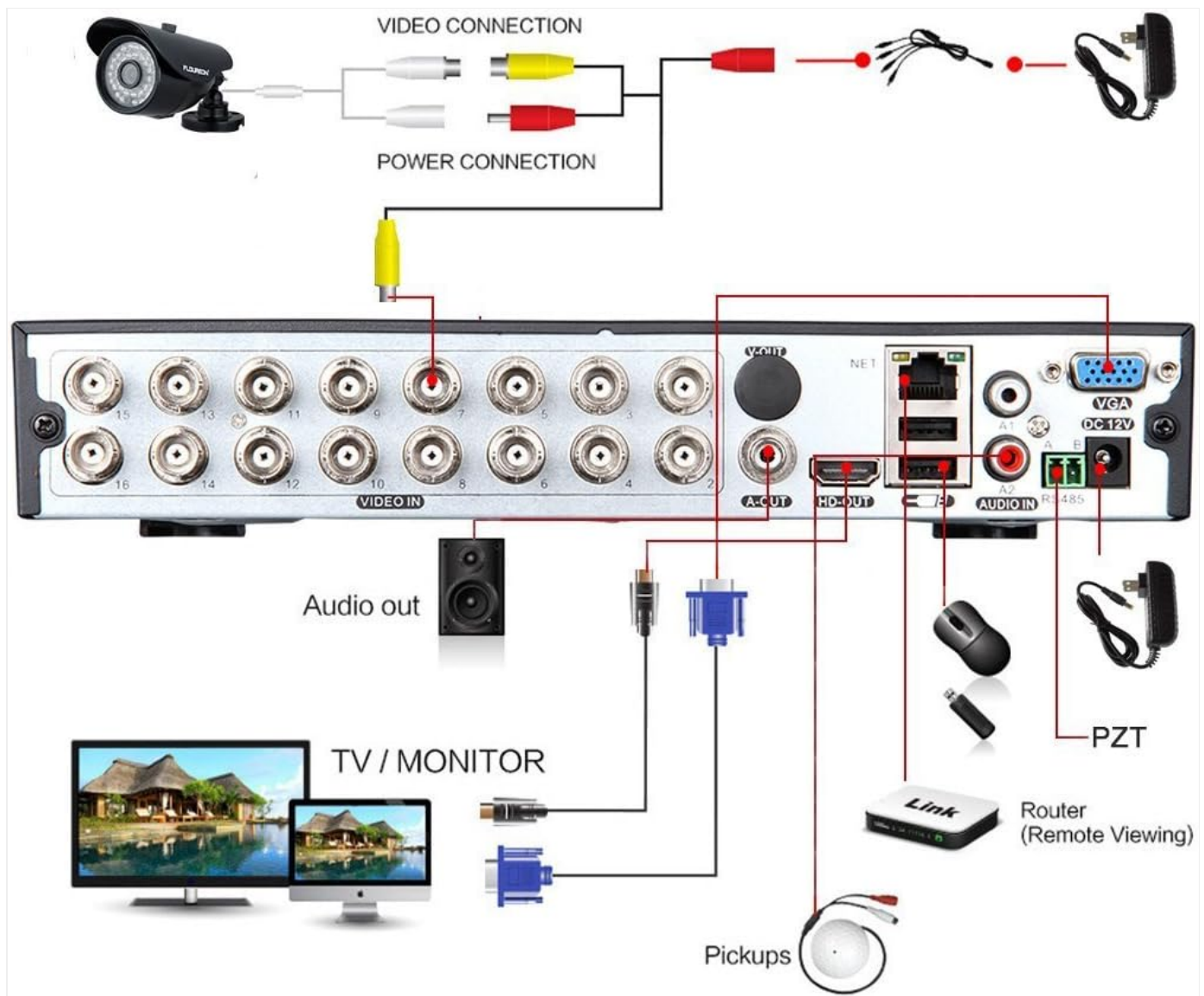


Image: Detailed diagram of the DVR's rear panel, illustrating connections for video input (BNC), audio input/output (RCA), VGA, HDMI, Ethernet (NET), USB, RS-485 (PTZ), and DC 12V power input. It also shows a typical camera connection setup with video and power cables.

4.3 Key Features

- **5MP Super HD Resolution:** Supports up to 5MP resolution for clear, high-definition imaging.
- **5-in-1 Compatibility:** Supports AHD, TVI, CVI, Analog, and IP cameras simultaneously.
- **H.265+ Video Compression:** Advanced compression technology for increased bandwidth and storage efficiency, resulting in smaller file sizes and longer recording times.
- **Motion Detection:** Configurable motion detection to trigger recording and send alerts.
- **P2P Remote Access:** Cloud P2P function for remote viewing on smartphones, tablets, and PCs without complex port forwarding.
- **Multiple Storage Options:** Supports up to 6TB HDD (sold separately) and cloud storage services.
- **Dual-Stream Setting:** Main stream for local HD monitoring and high-quality storage; sub-stream for convenient remote control and smoother viewing.

5. SETUP

5.1 Hard Drive (HDD) Installation

The DVR does not include a hard drive. A 3.5" SATA HDD (up to 6TB) is required for recording. Follow these steps to install the HDD:

1. **Twist down the screws of the DVR:** Carefully remove the screws on the back and sides of the DVR casing to open it.
2. **Access the hard disk:** Inside the DVR, locate the SATA data and power cables. Connect them to your hard drive.
3. **Install the screws:** Secure the hard drive to the designated mounting points within the DVR using the provided screws. Close the DVR casing and re-secure all screws.



Image: Step-by-step visual guide for installing a hard disk drive (HDD) into the DVR. It shows unscrewing the casing, connecting SATA data and power cables to the HDD, and securing the HDD with screws.

5.2 Connecting Cameras

Connect your surveillance cameras to the BNC video input ports on the rear panel of the DVR. Ensure each camera is also connected to its power supply.

5 IN 1 AHD DVR

Analog+AHD+IP+CVI+TVI

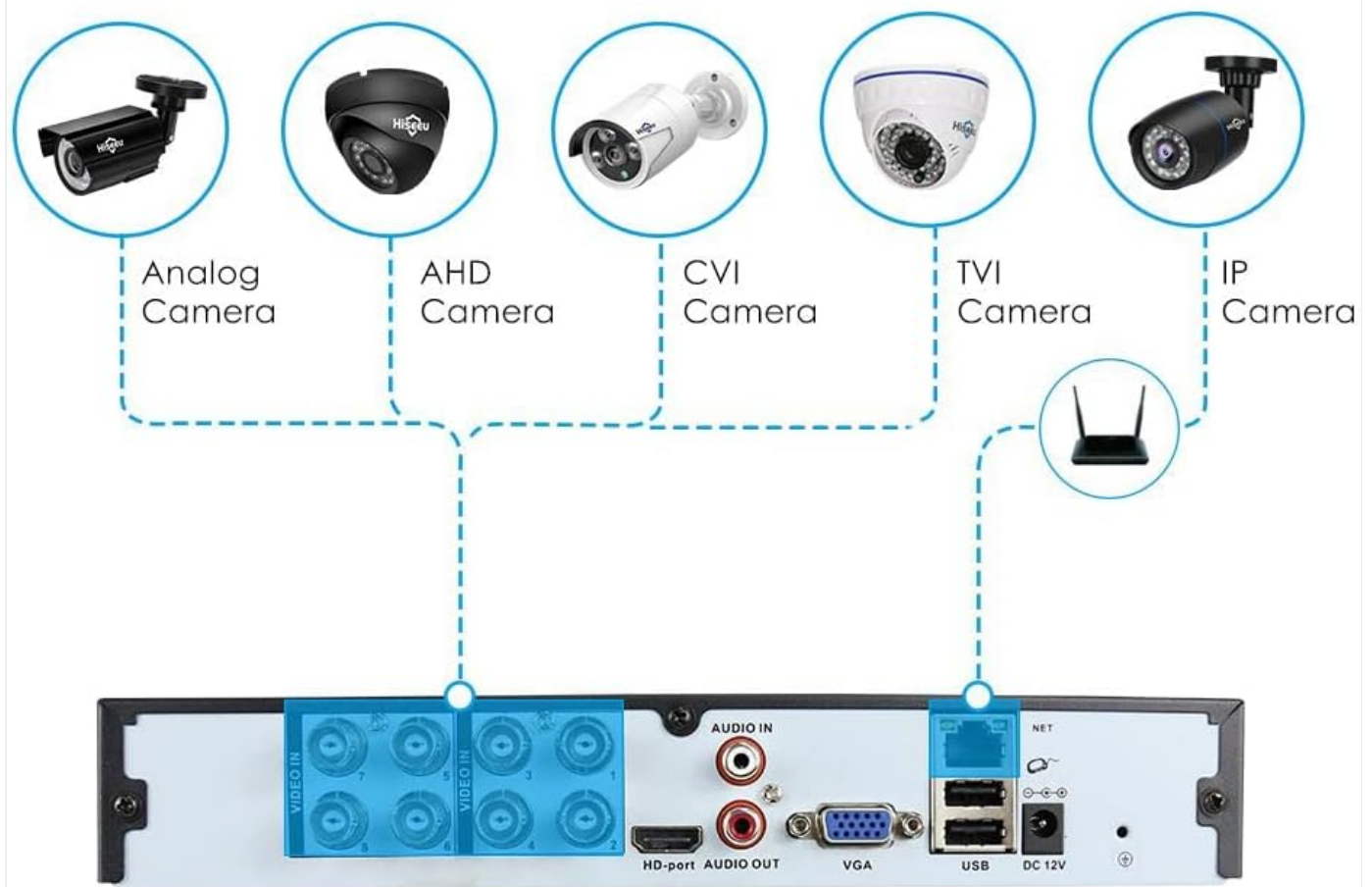


Image: Diagram illustrating the 5-in-1 compatibility of the DVR, showing how Analog, AHD, CVI, TVI, and IP cameras can be connected to the DVR's video input ports.

5.3 Connecting a Monitor/TV

Connect a monitor or TV to the DVR using either the HDMI or VGA output port on the rear panel. This will allow you to view the camera feeds and navigate the DVR's menu.

5.4 Network Connection

For remote viewing and network features, connect an Ethernet cable from your router to the NET port on the DVR's rear panel.

5.5 Power On

Connect the provided power adapter to the DC 12V input on the DVR and then plug it into a power outlet. The DVR will power on automatically.

6. OPERATING INSTRUCTIONS

6.1 Initial Setup and Password

Upon first power-on, the DVR will guide you through an initial setup wizard. You will be prompted to create a strong

password for security. It is mandatory to set a password for system access.

6.2 Video Recording Modes

The DVR supports various recording modes:

- **24/7 Continuous Record:** Records footage continuously throughout the day and night.
- **Motion Recording:** Records only when motion is detected, saving storage space.
- **Scheduled Recording:** Allows you to set specific times for the DVR to record.

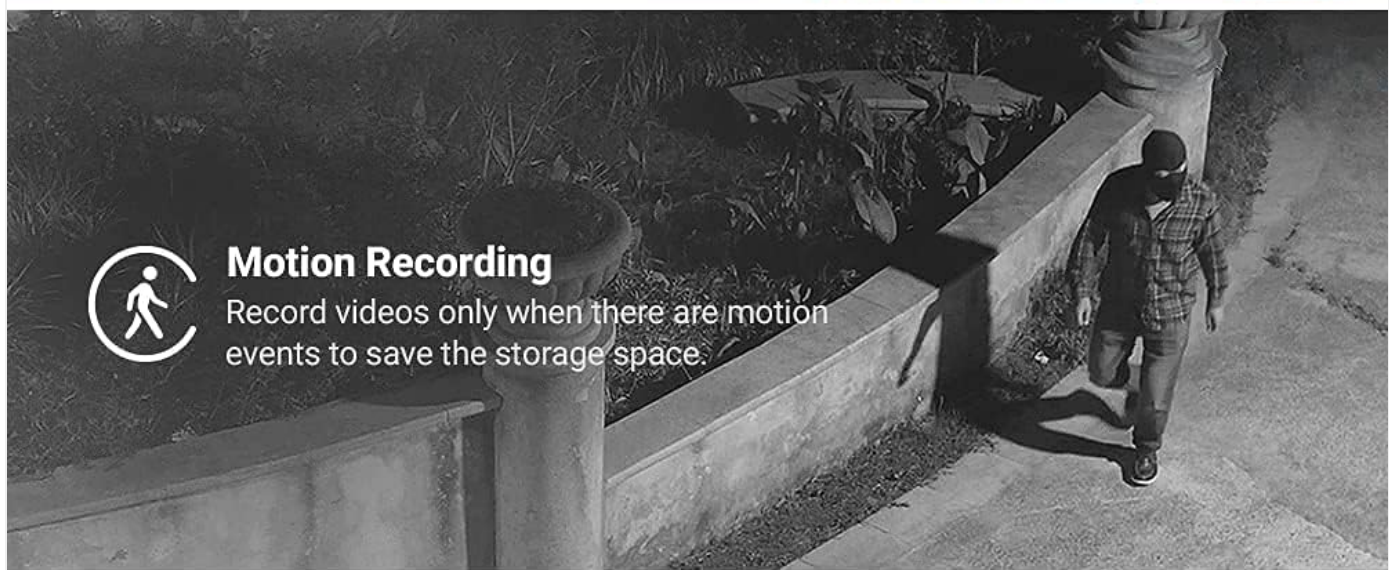


Image: Visual representation of the three recording modes: 24/7 Continuous Record, Motion Recording, and Scheduled Recording, with descriptions of each.

6.3 Motion Detection Configuration

To configure motion detection, navigate to the DVR's menu. You can define detection areas, sensitivity levels, and actions to be taken upon detection (e.g., start recording, send alert).

HDD Installation Steps (HDD Not Included)

01 Twist down the screws of the DVR



02 Access the hard disk



03 Install the screws



Note: Pictures only for reference

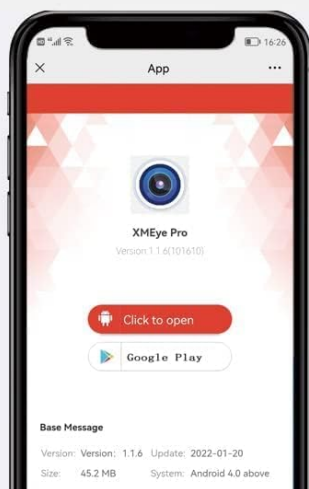
Image: Depicts a security camera detecting motion and an alert message being pushed to a mobile device, showing the date, time, and channel of the motion event.

6.4 Remote Access (Mobile App)

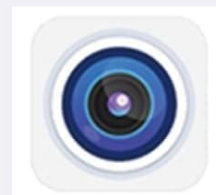
The SECULINK DVR supports remote viewing via the XMeye mobile application. This allows you to monitor your cameras from anywhere using a smartphone, tablet, or PC.

1. **Download the App:** Search for "XMeye" on the Google Play Store (for Android) or Apple App Store (for iOS), or scan the QR code provided below. You can also download directly from <http://d.xmeye.net/Xmeye>.
2. **Register an Account:** Follow the in-app instructions to create a new account.
3. **Add Device:** Add your DVR to the app by scanning the device's QR code or manually entering its serial number.
4. **Start Viewing:** Once added, you can view live feeds, playback recordings, and manage settings remotely.

Remote Viewing with Free Mobile APP



XMEye Pro APP



XMEye Pro



Image: Shows various devices (desktop, laptop, tablet, smartphone) displaying live camera feeds from the DVR. Below, it features the XMEye Pro app icon, a QR code for app download, and links to Google Play and the App Store.

6.5 Playback and Backup

Access recorded footage through the DVR's menu. You can search by date, time, and event type. For backup, connect a USB flash drive to one of the DVR's USB ports and follow the on-screen instructions to export desired footage. Cloud storage services are also available (sold separately) for additional backup options.

7. MAINTENANCE

7.1 Hard Drive Management

Regularly check the status of your hard drive through the DVR's system settings. Ensure there is sufficient space for recordings. The DVR will typically overwrite the oldest footage when the HDD is full, but you can configure this behavior.

7.2 Firmware Updates

Periodically check the manufacturer's website for firmware updates. Keeping your DVR's firmware up-to-date ensures

optimal performance, security, and access to new features. Follow the provided instructions carefully when performing updates.

7.3 Cleaning

Clean the exterior of the DVR with a soft, dry cloth. Do not use liquid cleaners or aerosols. Ensure ventilation openings are free from dust and obstructions to prevent overheating.

8. TROUBLESHOOTING

- **No Video Display:** Check all cable connections (HDMI/VGA, BNC for cameras). Ensure cameras are powered on and functioning. Verify the correct input source is selected on your monitor.
- **Cannot Record:** Ensure a hard drive is correctly installed and formatted. Check recording schedules and motion detection settings. Verify the HDD status in system settings.
- **Motion Alerts Not Working:** Confirm motion detection is enabled for the relevant channels. Check alert settings in the DVR menu and the mobile app. Ensure the DVR has a stable internet connection.
- **Remote Access Issues:** Verify the DVR is connected to the internet. Ensure the XMeye app is correctly configured and the device is added. Check network settings on the DVR and your router.
- **Poor Video Quality:** Ensure cameras are clean and properly focused. Check cable integrity. For analog cameras, ensure they are compatible with the DVR's resolution capabilities.

If you encounter issues not covered here, please refer to the support section for further assistance.

9. SPECIFICATIONS

Feature	Specification
Model Number	AVR7816L-ME
Resolution	16x 5M-N@8FPS (Hybrid Mode 2MP)
Camera Type Compatibility	AHD/Analog/CVI/TVI/IP (5MP Max)
Video Input	16x BNC
Audio Input	2x RCA
Video Output	1x VGA, 1x HDMI
Audio Output	1x RCA
Network Port	1x RJ45 10M/100M
USB Port	2x USB2.0
PTZ Control	RS-485
Streaming Specification	ONVIF/RTSP
Power	DC 12V
App	XMeye

HDD Interface	SATA (Max 6TB)
Product Dimensions	10.24"L x 7.48"W x 1.69"H

10. WARRANTY INFORMATION

SECULINK products are covered by a limited warranty. Please refer to the warranty card included with your product or visit the official SECULINK website for detailed warranty terms and conditions. Keep your purchase receipt as proof of purchase for warranty claims.

11. SUPPORT

For technical assistance, troubleshooting, or product inquiries, please contact SECULINK customer support. Contact information can typically be found on the product packaging, the official SECULINK website, or within the XMeye application.

