

## DIYSecuritycameraworld MD-AHD-2CH-5MP

# DIYSecuritycameraworld 2CH Mini Mobile AHD DVR HD 5MP User Manual

Model: MD-AHD-2CH-5MP

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of the DIYSecuritycameraworld 2-Channel Mini Mobile AHD DVR. This device is designed for vehicle surveillance, supporting high-definition AHD cameras up to 5MP resolution and standard CVBS cameras. It features H.264 compression for efficient recording, dual SD card slots for extended storage, and intelligent power management suitable for 12-24V vehicle environments.

### Key Features:

- **Video Encoding:** H.264 High Profile (Level 4.1) compression, AVI format.
- **Camera Input:** Supports AHD cameras up to 5.0MP (2592x1944) and CVBS cameras.
- **Channels:** 2 independent video and audio input channels.
- **Storage:** Dual SD card slots, supporting up to 128GB per card (SD cards not included).
- **Power Supply:** Stable operation from 10V to 32V, suitable for 12-24V vehicles.
- **Power Protection:** Built-in super electric capacity for power-off protection.
- **Camera Power Output:** Provides stable 12V power output for cameras with short-circuit protection.
- **Recording Modes:** Auto Record (power-on), Timer Record, Manual Record, Motion Detection Record.
- **Security:** Password protection for DVR operation.

## 2. PACKAGE CONTENTS

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Verify that all items listed below are present in your package. If any items are missing or damaged, please contact your vendor.

- 1x 2CH Mini HD Mobile SD Card DVR
- 2x Keys for SD card compartment lock
- 1x Aviation to BNC Cable
- 1x Power Cable
- 1x Remote Control



Figure 2.1: Package Contents. This image displays the DVR unit, a set of connection cables, two keys for the SD card compartment, and a remote control unit.

### 3. PRODUCT OVERVIEW

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Familiarize yourself with the various ports and components of the DVR unit before installation.



Figure 3.1: DVR Front and Side Panel Overview. This image highlights the DC power input, two camera input ports (CAM1, CAM2), AV output, HDMI output, IR receiver, REC and PWR indicator lights, and the dual SD card slots.



Figure 3.2: SD Card Compartment. This image shows the protective cover for the dual SD card slots, along with the key-operated lock mechanism indicating 'LOCK' and 'UNLOCK' positions.



Figure 3.3: SD Card Compartment with Key. This image illustrates the key inserted into the lock of the SD card compartment, ready to secure or release the cover.

## 4. SETUP

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### 4.1 SD Card Installation

1. Unlock the SD card compartment cover using the provided key.
2. Insert up to two SD cards (Class 10 or higher recommended, max 128GB each) into the designated slots (SD Card1, SD Card2) with the contacts facing down.
3. Gently push the SD cards until they click into place.
4. Close the compartment cover and lock it with the key to secure the cards.
5. It is recommended to format the SD cards via the DVR's menu after installation for optimal performance.

### 4.2 Camera Connection

1. Connect your AHD (5MP/4MP/1080P/720P) or CVBS cameras to the CAM1 and CAM2 aviation input ports on the DVR using the provided Aviation to BNC cable.
2. Ensure connections are secure. The DVR provides 12V power to connected cameras.

### 4.3 Video Output Connection

Connect the DVR to a monitor or display for viewing live footage and accessing the menu.

- **HDMI Output:** Connect an HDMI cable from the DVR's HDMI port to your monitor's HDMI input.
- **AV Output:** Connect an RCA cable from the DVR's AVOUT port to your monitor's AV input.

#### 4.4 Power Connection

1. Connect the provided power cable to the DC10-36V input port on the DVR.
2. Connect the other end of the power cable to your vehicle's power source (12V-24V). Ensure proper polarity.
3. For ignition control, connect the appropriate wire from the power cable to your vehicle's ignition circuit. This allows the DVR to power on/off with the vehicle's ignition.



Figure 4.1: DVR with Connected Cables. This image shows the DVR unit with the power cable, two camera input cables, and an AV output cable securely connected to their respective ports.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Power On/Off

- **Power On:** The DVR will automatically power on when the vehicle's ignition is turned on (if connected via ignition control) or when direct power is supplied. The PWR indicator light will illuminate.
- **Power Off:** The DVR will power off automatically when the vehicle's ignition is turned off. It may have a delayed shutdown feature to complete current recordings.

## 5.2 Recording Modes

The DVR supports multiple recording modes, configurable through the on-screen display (OSD) menu using the remote control.

- **Auto Record:** Recording starts automatically when the DVR powers on. This is the default mode for continuous surveillance.
- **Timer Record:** Schedule specific times for the DVR to start and stop recording.
- **Manual Record:** Start and stop recording manually using the remote control. The REC indicator light will flash during recording.
- **Motion Detection Record:** Recording begins automatically when motion is detected by the connected cameras. Sensitivity and detection areas can be configured in the menu.

## 5.3 Menu Navigation and Settings

Use the provided remote control to navigate the DVR's OSD menu. Press the 'MENU' button to access settings such as:

- **System Settings:** Date, Time, Language.
- **Record Settings:** Resolution, Frame Rate, Recording Mode, Loop Recording.
- **Storage Management:** SD card formatting, storage information.
- **Password Protection:** Set or change the security code to prevent unauthorized access to DVR settings and recordings.

# 6. MAINTENANCE

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## 6.1 SD Card Management

- **Formatting:** Regularly format SD cards (e.g., monthly) through the DVR's menu to maintain optimal recording performance and prevent data corruption. Back up any important recordings before formatting.
- **Replacement:** Replace SD cards that show signs of degradation or error messages to ensure reliable recording.
- **Capacity:** The DVR supports loop recording, automatically overwriting the oldest footage when the SD card is full.

## 6.2 Cleaning

- Wipe the exterior of the DVR with a soft, dry cloth.
- Do not use liquid cleaners or solvents, as they may damage the unit.
- Ensure all ports are free from dust and debris.

# 7. TROUBLESHOOTING

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- **No Power:**
  - Check the power cable connection to the DVR and the vehicle's power source.
  - Verify the vehicle's power source is active (e.g., ignition on).
  - Ensure the input voltage is within the 10V-32V range.
- **No Video Output:**
  - Check HDMI or AV cable connections to both the DVR and the monitor.

- Ensure the monitor is set to the correct input source (HDMI or AV).
- Verify cameras are properly connected and powered.

- **No Recording:**

- Ensure SD cards are inserted correctly and securely locked.
- Check if SD cards are full; format if necessary (after backing up data).
- Verify the recording mode settings (Auto, Timer, Manual, Motion Detection) in the OSD menu.
- Check if cameras are functioning and providing a signal.

- **Remote Control Not Responding:**

- Ensure there are no obstructions between the remote and the DVR's IR receiver.
- Check and replace the remote control batteries if needed.

## 8. SPECIFICATIONS

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Feature	Specification
Model Number	MD-AHD-2CH-5MP
Brand	DIYSecuritycameraworld
Number of Channels	2
Video Input	BNC (AHD 5MP/4MP/1080P/720P, CVBS)
Audio Input	RCA
Video Output	HDMI, AV
Connectivity Technology	HDMI
Compatible Devices	Camera
Memory Storage Capacity	Max. 128 GB per SD card (Dual SD slot)
Media Format Digital Video	SD Card
Power Input	DC 10V-32V
Manufacturer	DiysecurityCameraWorld
UPC	780305856587