



# HIKVISION MD5043SD Mobile Video Recorder User Guide

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**HIKVISION MD5043SD Mobile Video Recorder**



## Legal Information

### About this Manual

The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the company website Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

### Trademarks Acknowledgement

Trademarks and logos mentioned are the properties of their respective owners.

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EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE APPLICABLE LAW, THE LATER PREVAILS.

## **Regulatory Information**

### **FCC Information**

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment should be installed and operated with a minimum distance 20 cm between the radiator and your body.

### **FCC Conditions**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

### **EU Conformity Statement**

This product and – if applicable – the supplied accessories too are marked with “CE” and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the LVD Directive 2014/35/EU, the RoHS Directive 2011/65/EU.2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: [www.recyclethis.info](http://www.recyclethis.info)

2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: [www.recyclethis.info](http://www.recyclethis.info)

The user manual for local area network devices shall contain instructions related to the restrictions mentioned in the above sections, namely that:

1. the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
2. the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and
3. the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p.

limits specified for point-to-point and non point-to-point operation as appropriate.

Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

## Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
<b>Danger</b>	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.
<b>Caution</b>	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
<b>Note</b>	Provides additional information to emphasize or supplement important points of the main text.

## Installation and Connection

### Note

Device pictures in this section are only for reference. In condition that device pictures conflict with the real devices, the later prevails.

### Before You Start

Take out the device from the package. Check the device and accessories. Contact us if something is missing or damaged.

### Environment

Consider the following environment conditions when installing the device.

### Anti-vibration

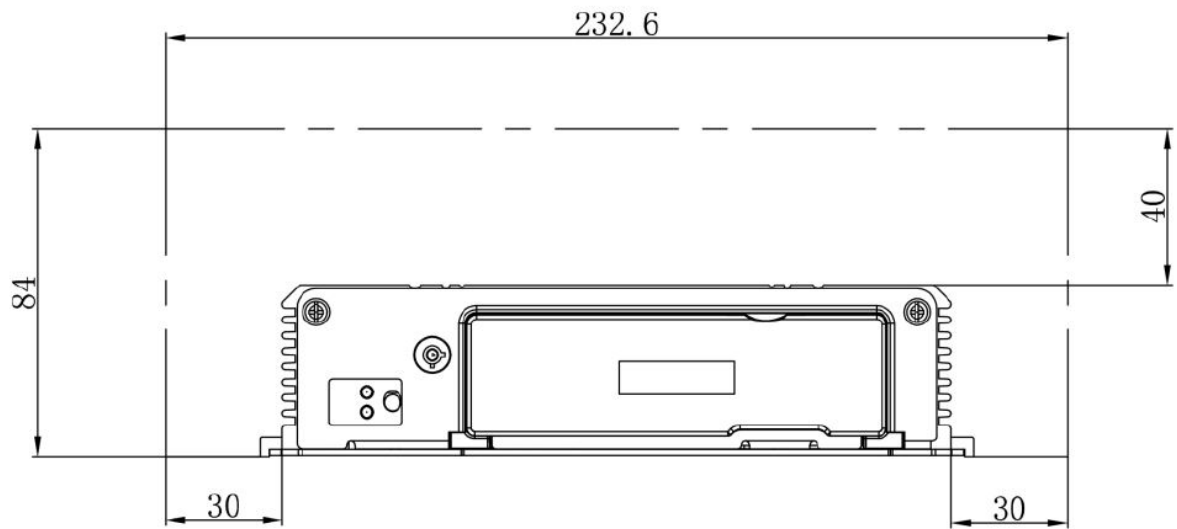
Install the device on the part with weak vibration (such as the part behind the driver's seat, the part behind the passenger's seat, etc.) and far away from the engine.

### Heat dissipation

Install the device in the position far away from heat and with good ventilation for good heat dissipation.

### Enough space

Leave enough space for ventilation, heat dissipation, opening and closing the front panel, etc.



**Figure 1-1 Recommended Installation Space**

#### **Placing angle**

Place the device horizontally. The other placing angles may damage the device.

#### **Fixing position**

All the screws in the fixing positions must be fastened tightly to avoid device falling during the vibration in driving.

#### **Install SIM Card**

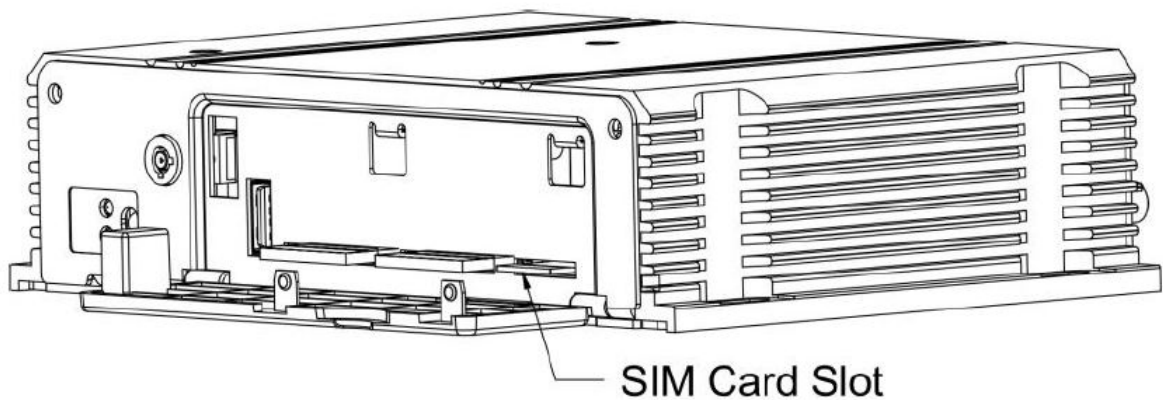
Install 3G/4G SIM card to realize wireless communication.

#### **Before You Start**

Prepare SIM card and key to front panel lock.

#### **Steps**

1. Wear antistatic gloves.
2. Insert the key and turn counterclockwise to unlock the front panel.
3. Insert SIM card into SIM card slot till you hear a click.



**Figure 1-2 SIM Card Slot**

4. Cover the front panel, and turn the key clockwise to lock the front panel.

#### **Install SD Card**

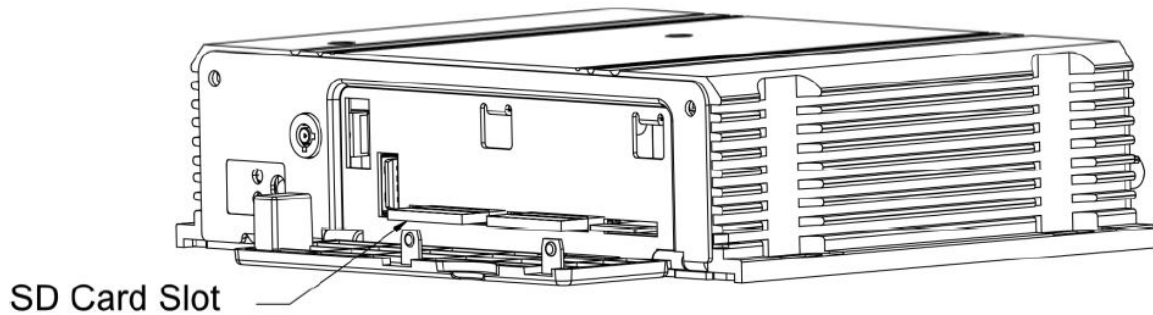
SD card is installed well after the device leaves factory. If you want to change the SD card, follow the steps below.

### Before You Start

Prepare SD card and key to front panel lock.

### Steps

1. Wear antistatic gloves.
2. Insert the key and turn counterclockwise to unlock the front panel.
3. Insert SD card into SD card slot till you hear a click.



**Figure 1-3 SD Card Slot**

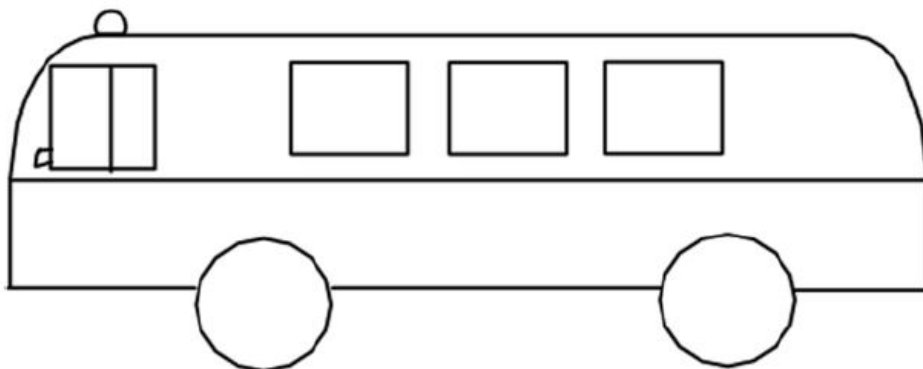
4. Cover the front panel, and turn the key clockwise to lock the front panel.

### Install Antenna

Follow the notice below for antenna installation.

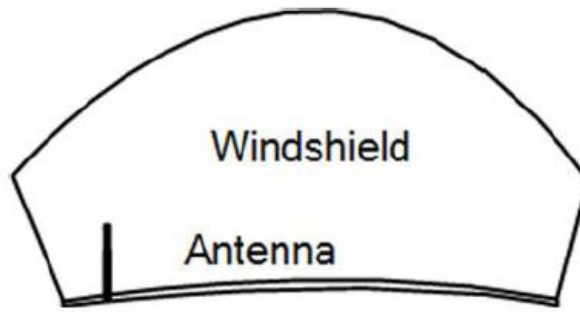
Note The installations of 3G/4G and Wi-Fi antennas are only applicable to the device supporting 3G/4G and Wi-Fi.

- Connect antennas to corresponding antenna interfaces.
- Place antenna vertically with its signal receiving end facing upward.
- If the cable is too long, you can roll them up to prevent signal receiving from being affected.
- Install 3G/4G antenna in car windshield, seat backrest, or other non-metallic objects. Keep away from metal objects for at least 50 cm.
- Vertically install positioning antenna on the automobile roof with no shelter.



**Figure 1-4 Install Positioning Antenna on Automobile Roof**

- Follow the instructions below in case that you need to install positioning antenna inside your automobile.
  - Install antenna on platform under the front windshield.



**Figure 1-5 Install Positioning Antenna Inside Automobile**

- Fix antenna with neutral silica gel.
  - When adjusting the antenna position, ensure that at least 4 satellites have a signal strength above 35 dB.
- You can go to Location Status interface to view positioning signal status.

## **Device Wiring**

### **Power Cord Wiring**

#### **Warning**

- In order to ensure the safety of your automobile and device, a fuse is required for wiring of automobile power and device power.
- Do not connect the power cord to the device before all the cables are connected.

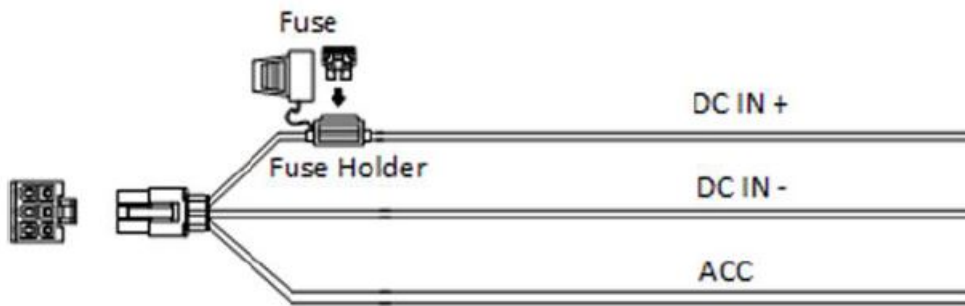
### **Shutdown Delay**

The device starts up when your automobile ignites and shuts down after automobile is off. Automobile ignition startup and shutdown are realized by positive pole ignition switch (providing high level signal when the switch closes). Ignition switch is connected to the positive pole of automobile batteries.

#### **Steps**

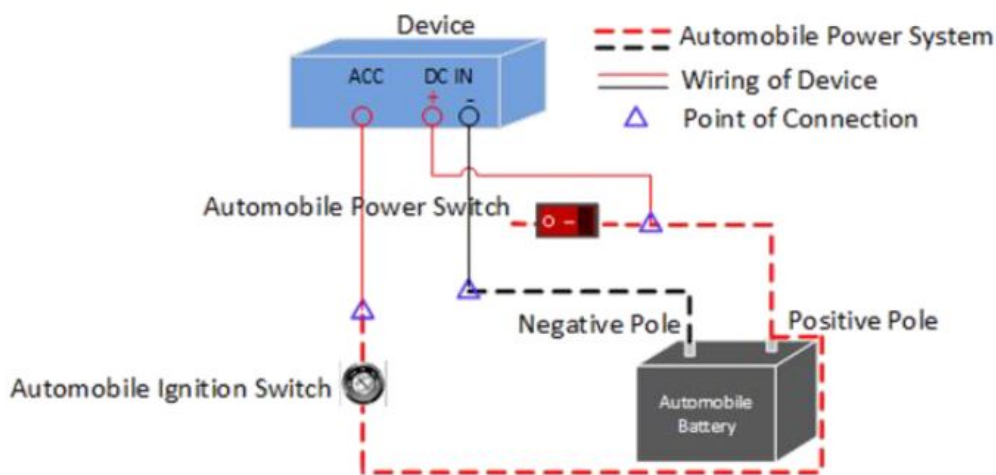
#### **Note**

- The wire connection of the device varies with the automobile ignition models.
  - Make sure the connection of ignition switch is correct.
1. Connect DC IN + of the device to the positive pole of automobile batteries, jumping over the switch of normal automobile power.
  2. Connect DC IN – of the device to the negative pole of automobile batteries.
  3. Connect ACC of the device to the automobile ignition switch.
  4. Place fuse into the fuse holder.



**Figure 2-1 Power Cord**

## Result



**Figure 2-2 Shutdown Delay**

## Note

- Contact the automobile manufacturer for the connection information of starting switch.
- The automobile ignition switch, also called car key, controls the startup and shutdown of your automobile. Most of automobiles adopt positive pole ignition switch currently.
- The normal automobile power refers to the main power of the automobile power supply system. After the automobile is off, the normal automobile power still provides direct-current source for the other devices inside and generally a main switch is used to turn on/off it.

## What to do next

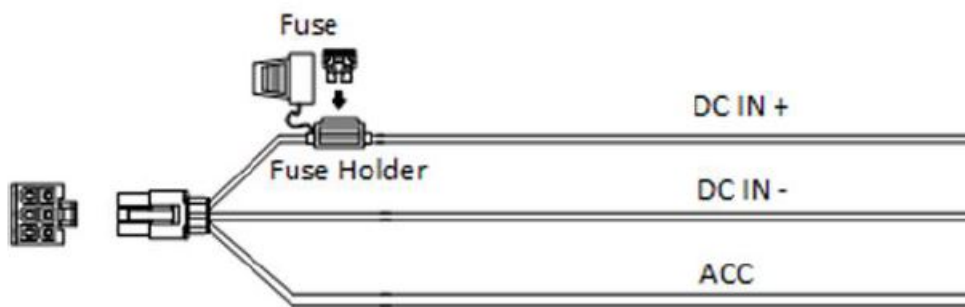
Configure parameters of the function. Refer to User Manual for details.

## Scheduled Shutdown

### Steps

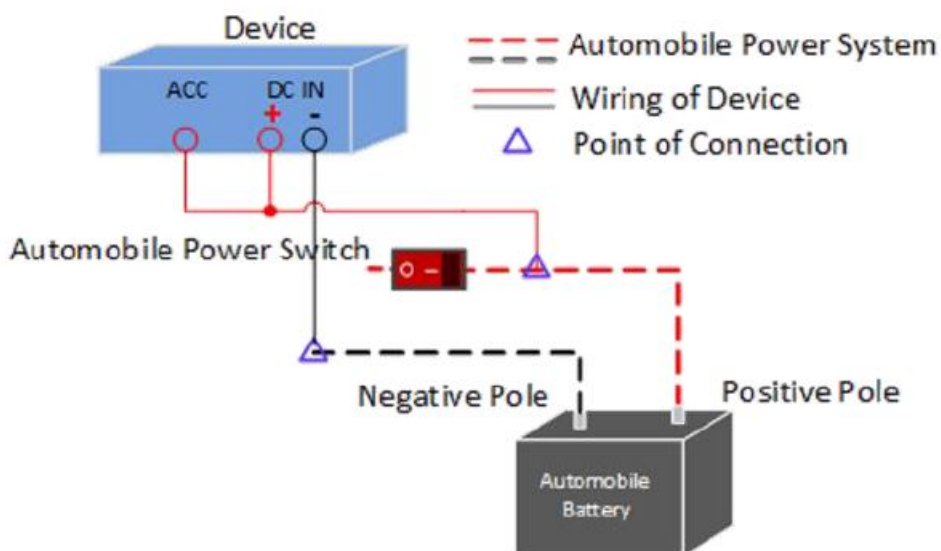
1. Connect DC IN + and ACC of the device to the positive pole of automobile batteries.

2. Connect DC IN – of the device to the negative pole of automobile batteries.
3. Place fuse into the fuse holder.



**Figure 2-3 Power Cord**

## Result



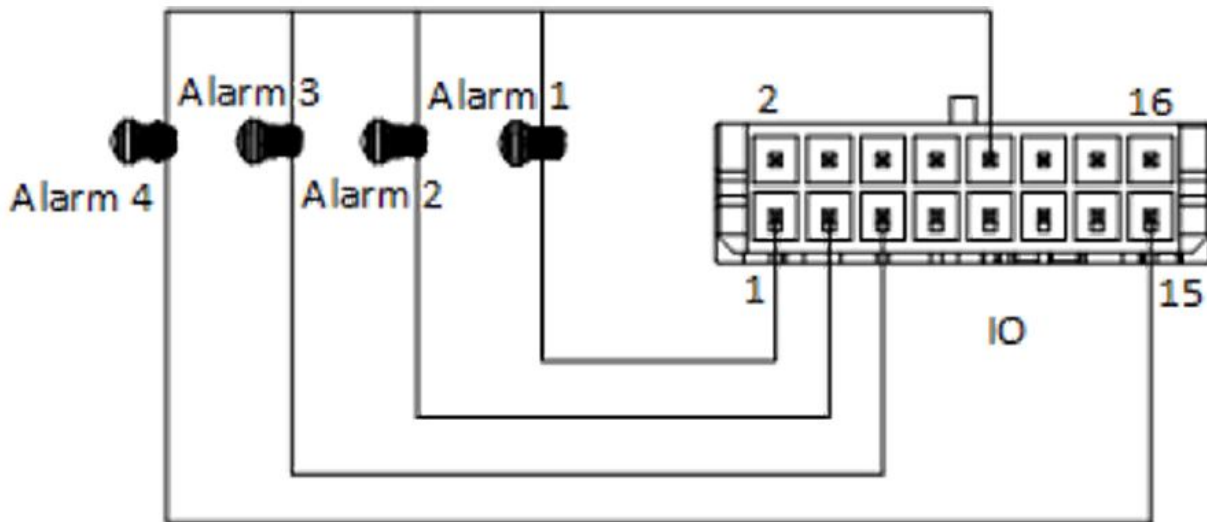
**Figure 2-4 Scheduled Shutdown**

## What to do next

Configure parameters of the function. Refer to User Manual for details.

## Alarm Input Connection

The device adopts the high/low-level electrical signals triggering (high level: 6 to 36 VDC; low level: 0 to 5 VDC) to realize alarm input. And in order to avoid error report caused by voltage fluctuation, no alarm will be triggered by voltage ranging of 5 to 6 VDC.

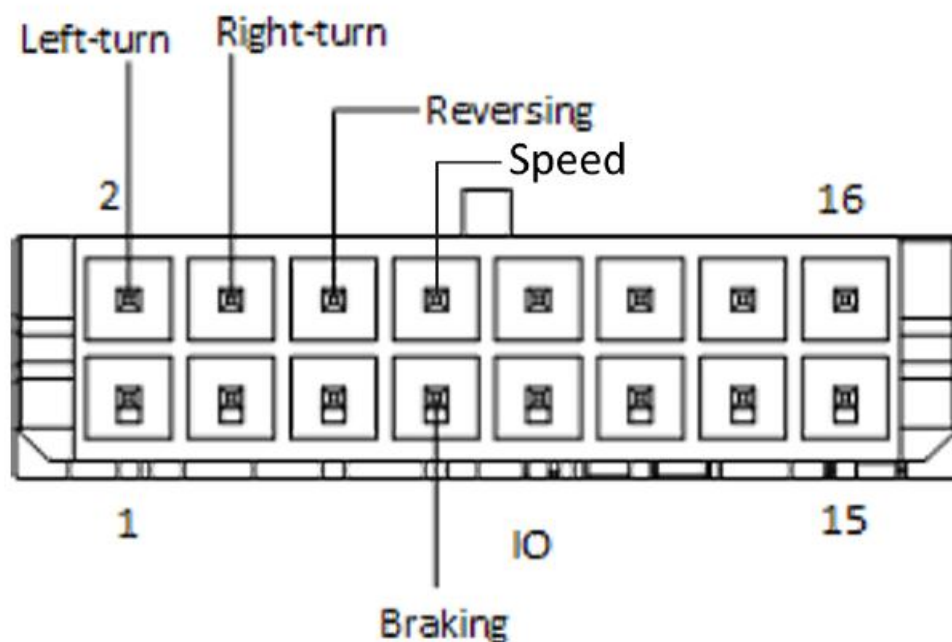


**Figure 2-5 Alarm Input Connection**

### Sensor-In Wiring

#### Steps

1. Connect the delivered extension cable to I/O interface.
2. Connect the automobile braking, reversing, left-turn, and right-turn signals to sensor-in interface.



**Figure 2-6 Sensor-In Wiring**

### Power on Device

Connect the device to power supply after all the installations above are finished. You can view the indicators to get knowledge of the device status.

#### Note

The indicator types vary with different models. Here the most comprehensive indicators are introduced.

- Power indicator (PWR)
  - Solid green: Device is powered on.
  - Solid red: Device is standby.
- Recording indicator (REC)

Solid green: Device is recording normally.

## Activation

For the first-time access, you need to activate the device by setting an admin password. No operation is allowed before activation. The device supports multiple activation methods. In this section, we introduce activation via web browser.

### Default Information

Device default IP address and user name are as follows.

- Default IP address: [192.168.1.64](http://192.168.1.64)
- Default user name: admin.

### Activate via Web Browser

You can activate the device via web browser.

### Before You Start

Ensure your device and computer are in the same network segment.

#### Steps

1. Visit device IP address via web browser.
2. Enter Password.

#### Note

We highly recommend you to create a strong password of your own choosing (using a minimum of 8 characters, including at least three kinds of following categories: upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

3. Confirm password.
4. Click OK.

## Basic Operation

### Login

You can get access to the device via web browser.

#### Steps

1. Visit the IP address of the device via web browser.
2. Enter the user name and password.
3. Click Login.

**Note**


Follow the installation prompts to install the plug-in before other operations.

**Dial**

Set the dialing parameters if you want to connect the device to the network via dialing. Before You Start Install SIM card and connect 3G/4G antenna to your device.

**Steps**

1. Go to Configuration → Network → Basic Settings → 3G/4G.
2. Check Enable.
3. Click Dial Parameters.
4. Select Network Mode.
  - **Automatic**  
The device will automatically switch to the strongest network.
  - **Auto-Search and Auto-Switch**  
Network priority: 4G > 3G > 2G. The device will automatically connect network of high priority.
  - **3G**  
The device only connects 3G network.
  - **4G**  
The device only connects 4G network.
5. Set dial parameters.
  - To connect the device to private network, enter Access Number, User Name, Password, and
  - **APN.**  
To connect the device to general network, you do not need to set dial parameters.

Modules Choise	Module1
<input checked="" type="checkbox"/> Enable	
Wireless Dial-up Status	Dial Parameters
Dial Mode	Automatic
Network Mode	Automatic
Access Number	111111
User Name	
Password	••••••
APN	
MTU	1500
Verification Protocol	Automatic
<a href="#">The default load</a>	
User Name	
Password	
APN	
Verification Protocol	Automatic
	

**Figure 4-1 Set Dial Parameters**

**Note**

Contact the network operator to obtain the private network dial parameters.

6. Optional: For the special private network needing two sets of dialing parameters, click The default load to set the other set of dialing parameters.
7. Click Save.
8. Optional: Click Wireless Dial-up Status to view dialing status.

**Connect to EHome Platform**

EHome is a platform access protocol. The device can be remotely accessed via EHome platform.

**Before You Start**

- Create the device ID on EHome platform.
- Ensure the device can communicate with the platform normally.

## Steps

1. Go to Configuration → Network → Advanced Settings → Platform Access.
2. Check Enable.
3. Select Platform Access Mode as EHome Platform.

<input checked="" type="checkbox"/> Enable	
Platform Access Mode	Ehome Platform
Platform Version	ISUP2.0
Server Address Type	IP Address
Server Address	0.0.0.0
Server Port	7660
Device ID	D19667863
Register Status	Offline

**Figure 4-2 Configure EHome Platform**

4. Select Server Address Type.

When the server is in extranet, and the IP address is dynamic, you can select Domain Name.

When the server IP address is static, you can select IP Address.

5. Enter Server Address, Server Port, and Device ID.

- **Server Address**

Enter the static IP address of EHome platform.

- **Server Port**

The default value is 7660.

- **Device ID**

The ID of the device registered on the EHome platform. If you leave it empty, you can log in to the platform with the serial number.

6. Click Save.

## FAQ

### Why does my device fail to start up after connecting the power?

Answer

- Check power supply specification.
- If PWR indicator is unlit, check power supply and fuse installation.

### Why does my device fail to dial?

Answer

- Check 3G/4G antenna connection.


- Place 3G/4G antenna away from metal objects.
- Check your SIM card balance.
- Ensure 3G/4G dial parameters are correct.

### Why does my device fail to position?

Answer

- Vertically install positioning antenna on the automobile roof with no shelter.
- Ensure your vehicle is in a place with good GPS signal. Check GPS signal in corresponding interface.

### Documents / Resources

	<p><a href="#">HIKVISION MD5043SD Mobile Video Recorder</a> [pdf] User Guide MD5043SD, 2A3IQ-MD5043SD, 2A3IQMD5043SD, MD5043SD Mobile Video Recorder, Mobile Video Recorder</p>
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