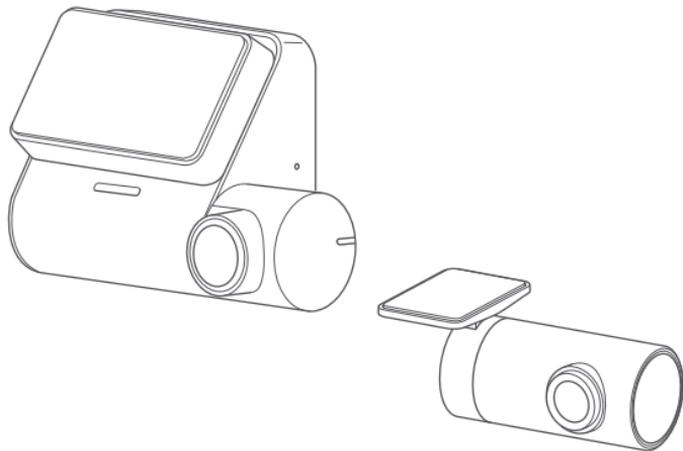


70mai Dash Cam A510

User Manual



Warning

1. If an accident occurs, turn off the power of the dash cam and remove the microSD card in a timely manner to prevent the recorded video files from being overwritten.
2. Before inserting the microSD card into the dash cam, refer to "Memory Card".
3. Do not insert or remove the microSD card when the dash cam is turned on. Doing so may damage your dash cam or microSD card.

This manual is applicable to three models of the 70mai Dash Cam A510: A510, A510-1, and A510-2.

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The 70mai® brand is committed to continuously improving its products and enhancing user experience. This device and the 70mai app will be constantly updated, and therefore the user manual may be slightly different from the actual situation.

After-sales Service



Use your smartphone to scan the QR code and send an email to help@70mai.com to contact us.

Online Guide



By using your smartphone to scan the QR code, you can view the online guide on your phone.

Safety Precautions

Read this manual carefully and keep it properly before using the product. This dash cam aims to assist the driver by recording the external environment of the vehicle, but it does not guarantee the driver's driving safety. You must comply with local traffic rules and regulations, and prioritize driving safety. Do not operate this product while driving.

Installation/Wiring

- To avoid product malfunctions and personal injury, install the dash cam correctly and be careful not to obstruct the driver's field of view and the vehicle airbags.
- To avoid product malfunctions caused by unqualified products, use the supplied accessories such as the car charger and power cord. 70mai is not liable for any loss or damage caused by the use of a non-original car charger or power cord.

Precautions for Use

- Do not operate this product, stare at the screen to operate the app, or engage in other legally prohibited operations while driving. Make sure to park in a safe location before proceeding with the operation and confirmation.
- Due to differences in vehicle condition, driving style, driving environment, etc., some functions of this product may not function properly. Power outages, use of the product in environments beyond normal operating temperature and humidity, collisions, and other reasons may cause recording failure. This product does not guarantee that all videos can be fully saved under any circumstances. The driving video recorded by this product is for reference only.
- If the front windshield where the product is installed is covered with colored automotive film, it may affect the quality of the recorded video or cause video distortion.
- Do not disassemble, repair, or modify this product and its accessories. Doing so may cause accidents, fires, electric shock, and malfunctions.
- Do not block the exhaust port of this product. This product may generate heat internally, leading to fire or malfunction.
- Do not subject this product to strong impacts or vibrations to avoid damaging the product, causing it to malfunction or become unusable.
- Do not use chemical solvents or cleaning agents to clean this product.
- Keep this product away from strong magnetic fields, as strong magnetic fields may cause damage to the product.
- After the product works for a period of time, the shell temperature will rise.

Be careful when touching it.

- This product is not a toy. The small components inside the product and accessories may cause suffocation or other injuries to children. Therefore, keep the product out of reach of children.
- Use this dash cam at a temperature between -10°C and 60°C.
- Use this dash cam within the scope permitted by law.

Battery Safety

1. The product contains a non-removable li-ion battery. Do not replace the battery by yourself to avoid damaging the battery or product. The battery can only be replaced by an authorized service center and must be replaced with a battery of the same type. Replacement of a battery with an incorrect type can defeat a safeguard (fire, explosion, battery leakage, etc.)
2. If you need to use a power adapter for power supply, purchase a power

adapter that has been certified and complies with relevant standards.

3. Do not disassemble, impact, or squeeze the product, or throw it into fire. Doing so may cause an explosion.
4. Do not swallow the battery as it may pose a risk of chemical burns.
5. Do not dispose of the battery in household waste. Comply with relevant national regulations for safe disposal of used batteries.

Warning:

1. Replacement of a battery with an incorrect type may defeat a safeguard.
2. Throwing the battery into fire or an oven, or mechanically crushing or cutting the battery may cause an explosion.
3. Placing the battery in an extremely high temperature environment, such as sunlight, fire, or hot surfaces, may cause explosions or leakage of flammable gases or liquids.
4. Batteries at extremely low pressure may cause explosions or leakage of flammable gases or liquids.

Memory Card

This dash cam supports standard microSD cards. Please use a microSD card with a capacity of 32 GB to 256 GB at a read/write speed of U1/Class 10 or higher.



RECOMMENDED



CLASS 10
(I/©)

UHS 3
(ULTRA HIGH SPEED)

- Before use, insert the microSD card into the dash cam.
- The default file format of the microSD card may be inconsistent with that supported by this product. When using a new microSD card on this product for the first time, initialize the microSD card using this product. Using other devices to initialize the microSD card may cause the microSD card to malfunction. Initializing the microSD card will delete all data on it. Please back up important data to other devices in advance.
- If a microSD card is used for a long time, it may become damaged or deteriorated over time, affecting the ability to save video and image files. In this case, replace the microSD card with a new one immediately.
- Use a reliable and high-quality microSD card. When a low-quality microSD card is used, the actual read/write speed or the actual available capacity may be inconsistent with the stated one. 70mai is not liable for material loss or damage caused by the use of a low-quality microSD card.
- Do not insert or remove the microSD card when the dash cam is turned on. Doing so may damage your dash cam or microSD card.

GPS Signal Receiving

- If you use this product for the first time or have not used it for a long time, it may take a few minutes to complete GPS positioning. You can check  on the status bar on the main screen to determine whether positioning is successful.
- Location information may not be recorded in places where GPS signals cannot be received (such as tunnels).
- There may be deviations in the location information, depending on the specific location.
- Note that if a metal film is attached to the front windshield where the product is installed, the metal film may cause deterioration of GPS signals received by a dash cam with the built-in GPS module.

About Radio Wave

Wireless Connectivity: Wi-Fi IEEE 802.11 b/g/n 2.4 GHz, **Bluetooth**®4.2
Bluetooth/Wi-Fi Operation Frequency: 2400 MHz to 2483.5 MHz
GPS/GLONASS Operation Frequency:

1559 MHz to 1610 MHz
Maximum Bluetooth Output: < 13 dBm
Maximum Output Power of Wi-Fi: < 20 dBm

Packing List

If you've purchased a dash cam only, check the following items in the packaging:

1. Dash Cam x 1
2. Mount x 1
3. Power Cord x 1
4. Car Charger x 1
5. Wiring Crowbar x 1
6. Electrostatic Sticker x 2
7. Heat-resistant Adhesive x 1
8. User Manual x 1

If you've purchased a set of dash cam, check the following items in the packaging:

1. Dash Cam x 1
2. Mount x 1

3. Power Cord x 1
4. Car Charger x 1
5. Wiring Crowbar x 1
6. Electrostatic Sticker x 2
7. Heat-Resistant Adhesive x 1
8. User Manual x 1
9. Memory Card* x 1

* You need to purchase a set of dash cam that includes a memory card.

10. Rear camera package* x 1
* This package includes a rear camera (cable included), signal cable, and other rear camera accessories. For more information about the rear camera, refer to the user manual of the rear camera.

Optional Accessories

To use the parking surveillance function, you need to purchase a 70mai Hardwire Kit separately.

For the operation guide of the 70mai Hardwire Kit, scan the QR code or visit

<https://help.70mai.asia/1472.html>.

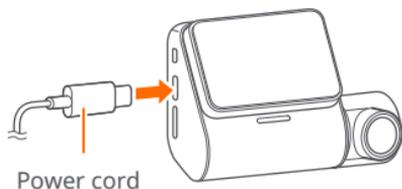


Operation Check and Initial Setup

Before installing the dash cam, check its operations and perform initial setup (language settings, date and time settings, etc.).

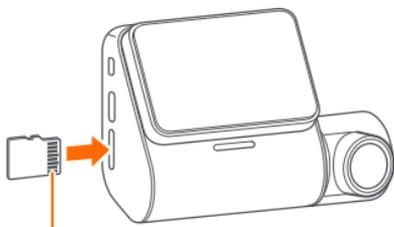
1. Park the car in a safe and flat area, apply the parking brake, and turn off the engine.

2. Connect the supplied power cord to the power port, and connect the dash cam to the cigarette lighter socket of the car.



Power cord

3. Insert the microSD card into the dash cam.



Side with pins

4. Start the car.

The dash cam automatically turns on and displays the initial settings (language settings) screen.

5. Follow the instructions on the screen to complete the initial setup.

During initial setup, the following items will be set or displayed.

Press the function button under each function icon to complete the setup. For detailed information about function buttons, refer to "Function Buttons".

The reference is as follows:

Setting	Description
System language	Set the language displayed on the screen.
Startup screen	The 70mai logo appears on the screen.
System time	Set the date and time.
Parking surveillance	Enable or disable the parking surveillance function. Connect and configure 70mai Hardwire Kit (optional)
70mai app download	You can scan the QR code on your smartphone and download the 70mai app.

- You can also perform initial setup later.
6. After initial setup, the dash cam displays the normal recording screen.
 - If the icon **●REC** is displayed in the upper left corner of the screen and the (red dot icon) is flashing, you can use the dash cam normally.
 7. Turn off the engine, and disconnect the power cord from the dash cam and cigarette lighter socket.

Refer to "Installation" to install the dash cam.

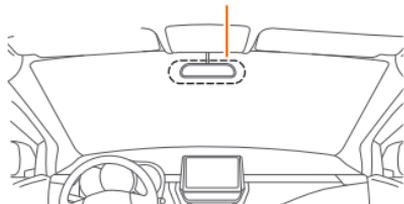
Installation

Before installing the dash cam, perform "Operation Check and Initial Setup".

Installing the dash cam

1. Clean the installation surface of the front windshield, and attach the supplied electrostatic sticker to the installation position of the dash cam.

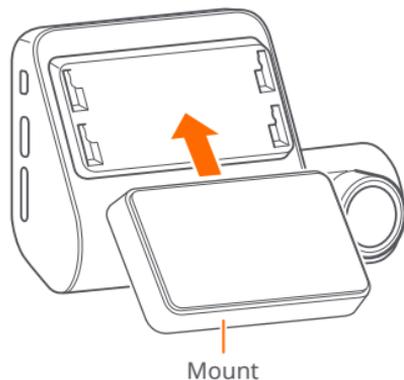
Recommended installation area



Attach the electrostatic sticker to the recommended installation area on the front windshield. Carefully press the sticker to remove bubbles.

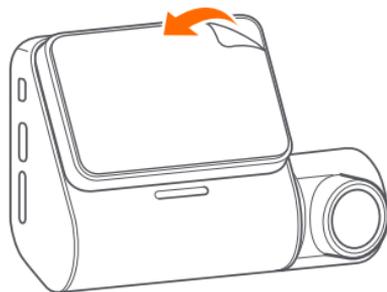
You are advised to install at a position that does not obstruct the driver's view and avoid the edge of the windshield.

- You can use the glass cleaner to remove dirt and grease from the installation position to avoid affecting the adhesion.
2. Install the supplied mount on the dash cam.



Align the mount with the installation slot and slide it upwards to fix it onto the dash cam.

3. Remove the protective film from the double-sided tape on the mount, and then stick the dash cam onto the electrostatic sticker on the front windshield.



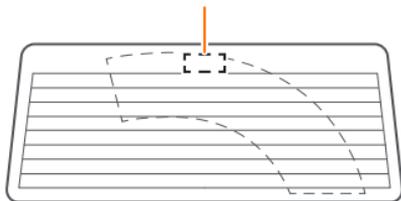
Press the dash cam against the front windshield to secure the dash cam.

- The adhesion takes some time to stabilize. Therefore, keep it still for a while.

Installing the rear camera

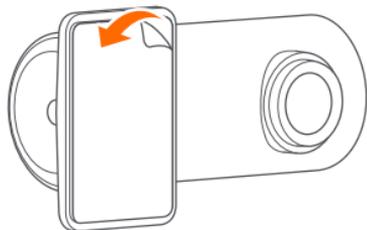
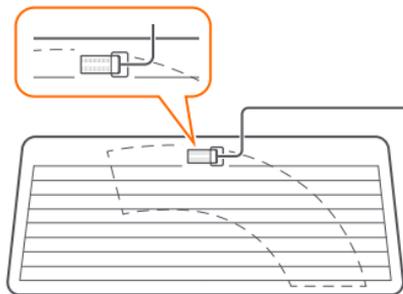
1. Clean the installation surface of the rear windshield, and attach the supplied electrostatic sticker of the rear camera to the installation position of the rear camera.

Recommended installation area of the rear camera



2. Remove the protective film of the double-sided tape on the rear camera, and stick the rear camera onto the electrostatic sticker on the rear windshield. Pay attention to the direction of the rear camera.

* Pay attention to the installation direction of the rear camera. Avoid flipping of images on the device.

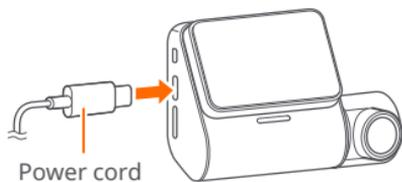


Press the rear camera against the rear windshield to secure the rear camera.

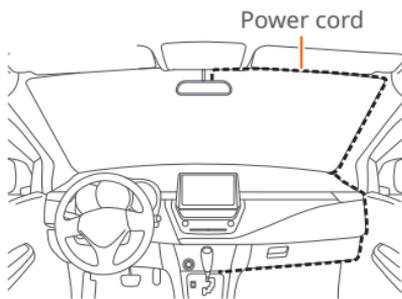
- The adhesion takes some time to stabilize. Therefore, keep it still for a while.

Connecting the dash cam

1. Connect the supplied Type-C connector of the power cord to the power port of the dash cam, and connect the other end to the car charger.



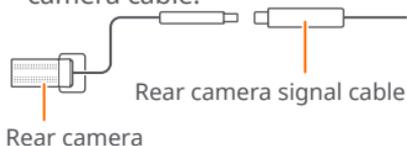
2. Use the supplied wiring crowbar to hide the power cord underneath the car roof lining and A pillar rubber sealing strip.



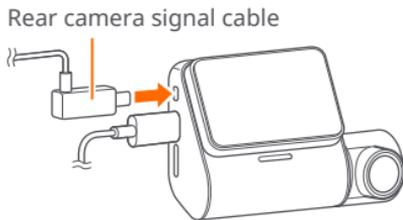
3. Route the power cord to the cigarette lighter socket, and insert the car charger into the cigarette lighter socket.
 - The position of the cigarette lighter socket varies according to the car.

Connecting the rear camera

1. Connect the supplied rear camera signal cable to the rear camera cable.

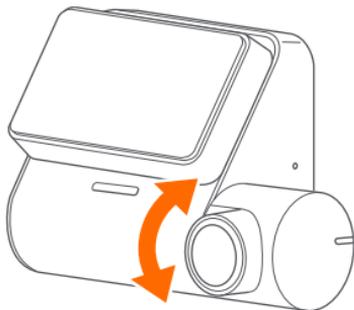


2. Use the supplied wiring crowbar to hide the rear camera signal cable under the rubber sealing strip on the top of the rear windshield, C pillar (or D pillar), and top of a side window, and connect the signal cable to the dash cam.
3. Connect the supplied rear camera signal cable to the rear camera port on the dash cam.

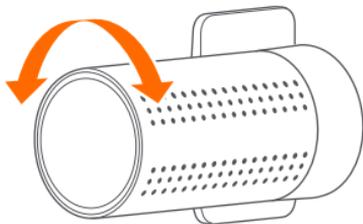


Adjusting the camera angle

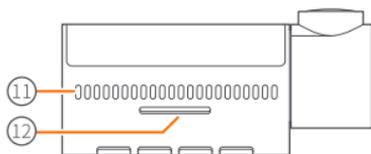
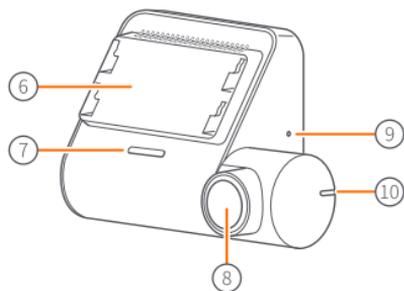
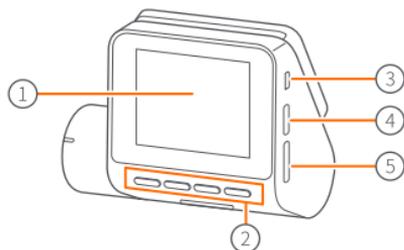
1. Turn on the engine of the car.
The dash cam automatically turns on and starts continuous recording.
2. Adjust the camera angle while checking the camera image on the dash cam.



3. Press the function button under the  icon on the dash cam to switch to the image of the rear camera.
4. Adjust the camera angle while checking the image of the rear camera on the dash cam.



Product Overview

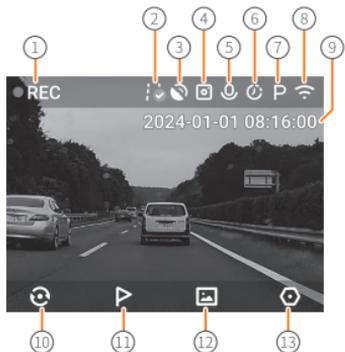


- ① Screen
- ② Function button
 - Corresponding to the function icon displayed at the bottom of the screen.
- ③ Rear camera port

- ④ Power port
 - Connected to the supplied power cord.
 - By connecting the dash cam to a computer using a USB cable (Type-C), you can back up video/image files to the computer.
 - ⑤ Memory card slot
 - Used to accommodate the microSD card (optional).
 - ⑥ Installation slot
 - Used to install the supplied mount.
 - ⑦ Speaker
 - Used to output the operation sound, warning sound, video and audio, etc.
 - ⑧ Camera
 - ⑨ Microphone
 - Used for audio recording.
 - ⑩ Indicator
 - ⑪ Heat dissipation hole
 - ⑫ Power button
 - Long press: Power-on/off
 - Long press for at least 15s: Forcibly power-off
 - Short press in power-on state: Always on/Screen saver/Screen off
- The screens and operation examples in this manual are for reference only. The actual product and functions may differ due to constant function updates of the product.

Main Screen

Insert the microSD card and turn on the dash cam to start recording. The main screen displays recorded images in real-time and icons indicating various functional states.



- ① Recording status
Indicates whether recording is in progress. If an exception occurs, ● (red dot) will change to ● (white dot) and REC will display.
- ② ADAS calibration
⚙️ indicates that the Advanced Driver Assistance System (ADAS) has been successfully calibrated. During the calibration process, the ⚙️ icon will be displayed. If calibration fails, this icon will change to ⚙️❌.
- ③ GPS
Indicates that location information has been obtained.
- ④ Rear camera (Only when the device is connected to a rear camera)
Displayed when the dash cam is connected to the rear camera.
- ⑤ Audio Recording (Only when the device is connected to a rear camera)
Indicates that the audio recording function is enabled. If you disable audio recording from the settings menu, the icon will change to 🚫.
• The audio recording function is disabled by default.
- ⑥ Time-lapse photography
Indicates that time-lapse photography is enabled.
- ⑦ Parking surveillance
Indicates that parking surveillance (collision detection recording) is enabled.
- ⑧ Wi-Fi hotspot
Indicates that the Wi-Fi hotspot is enabled. 📶 is displayed if the Wi-Fi hotspot is disabled.
- ⑨ Date and time
Displays the current date and time.
- ⑩ Camera switching (Only when the device is connected to a rear camera)
Press the function button under this icon to switch between the front camera screen and the rear camera screen.
If no rear camera is connected, the icon will change to 📷 or 📷❌.

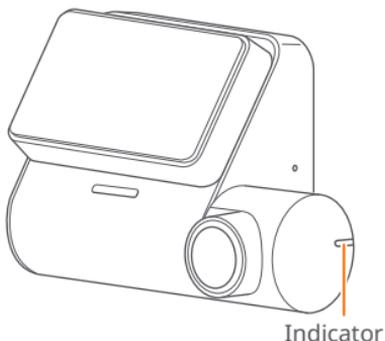
- ⑪ Emergency video
Press the function button under the  icon to record an emergency video.
- ⑫ Album
Press the function button under the  icon to access the album.
- ⑬ Settings
Press the function button under the  icon to access the Settings screen. You can change various settings of the dash cam.

Function Buttons

You can press the function buttons to use the functions indicated by icons displayed in the function prompt area at the bottom of the screen.



Indicator



Indicator Status	Dash Cam Status
Steady green	<ul style="list-style-type: none"> Recording a common video Recording a parking surveillance video
Flashing green	Recording an emergency video
Steady red	Encountering a recording exception. For example, the device detects that the memory card has been removed or aged, or the inserted memory card does not meet the capacity or read/write speed requirements.
Steady blue	<ul style="list-style-type: none"> Providing guidance for the beginner Accessing the album (on the device or app) Updating the firmware
Flashing blue	<ul style="list-style-type: none"> Formatting the memory card Restoring the factory settings Connecting to the phone and waiting for authorization

70mai App

Install the 70mai app on your smartphone. By connecting the dash cam to your smartphone through the built-in Wi-Fi, you can view real-time videos, download recorded videos, and configure various settings of the dash cam.

<https://www.70mai.com/download/>

- ※ To connect your smartphone to the Wi-Fi hotspot of the dash cam, you need a smartphone running Android 5.0 or iOS 11.0 or a later version.

Installing the 70mai app

Use your smartphone to scan the QR code or search for the "70mai" app in the App Store (iOS) or Google Store (Android) to download and install the 70mai app.



Adding the dash cam A510 to the 70mai app

1. Start the 70mai app on your smartphone.



2. Tap **Sign up**, enter your email address, enter the 6-digit confirmation code sent to you via email, and then enter the login password (6 or more alphanumeric characters) as desired.

Sign up

The screenshot shows the sign-up form with an orange border around the input fields. The fields are: "Email", "Please enter the verification code" (with a "get verification ..." link), and "Please set login password" (with a strength indicator).

- I have read and agree to "User Agreement" and "Privacy Policy"
- Sign up to receive email newsletters from 70mal.

Submit

Failed to receive the verification code?

3. Read and agree to the privacy policy, and tap **Submit**.

Sign up

Email

Please enter the verification code [get verification ...](#)

Please set login password Strength indicator

- I have read and agree to "User Agreement" and "Privacy Policy"
- Sign up to receive email newsletters from 70mal.

Submit

Failed to receive the verification code?

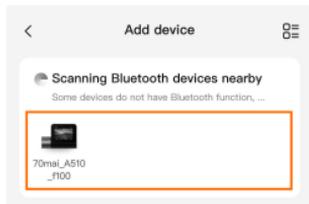
Now you can log in to the app using your account.

4. Turn on the dash cam.
- Make sure that Bluetooth is enabled on your smartphone.
5. Tap the add sign (+) in the app.



The device starts searching for available devices and then displays "70maiA510_xxxx".

6. Tap 70mai_A510_xxxx.



7. Press the function button (rightmost) under the ✓ icon on the dash cam screen within 30 seconds to complete the dash cam authentication.

The dash cam A510 is added to the 70mai app.

- If you do not press the function button within 30 seconds, the connection request will be canceled. In this case, tap **Try again**.

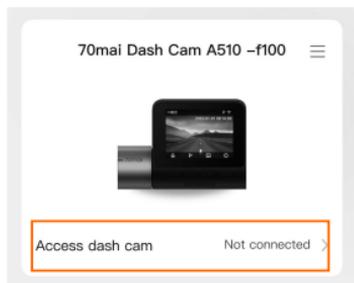
Connecting the dash cam to the 70mai app

1. Turn on the dash cam.

- Make sure that Bluetooth and Wi-Fi are enabled on your smartphone.
- Enable the hotspot in the **Wi-Fi Hotspot** Settings of the dash cam in advance.

2. Start the 70mai app and tap

Connect to the dash cam directly.



3. Follow the on-screen prompts to connect to the Wi-Fi hotspot of the dash cam, and tap the hotspot name of the dash cam in the WLAN list of the smartphone.

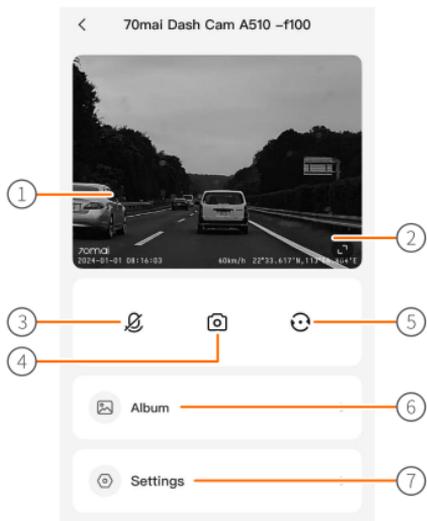
- If you are prompted to enter a password, enter the password of the Wi-Fi hotspot on the dash cam. The password is **12345678** by default. If you have changed the password through the 70mai app and forget the password, check the password in the **Wi-Fi Hotspot** settings on the dash cam.

4. After the connection, return to the 70mai app

The main screen of the dash cam (real-time continuous recording screen) is displayed.

- If the dash cam cannot be connected to the 70mai app after the preceding steps, remove the Wi-Fi hotspot of the dash cam from the WLAN list on your smartphone and try connecting again.

Main screen of dash cam

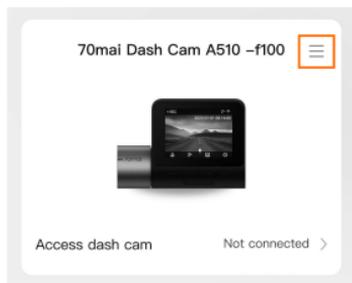


- 1 Display the camera image.
- 2 Tap here to display the camera image in full screen on the smartphone. To cancel the full-screen display, tap the screen and then tap ↖.
- 3 Tap here to start or stop audio recording.
- 4 Tap here to take photos.
- 5 Camera switching
Tap here to switch between the front camera screen and the rear camera screen.
- 6 Tap here to access the album of the dash cam.
- 7 Tap here to set the dash cam.

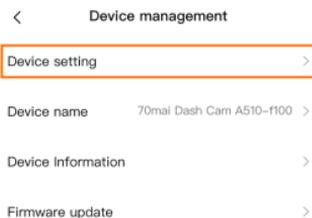
Device settings

You can configure various settings of the dash cam through the 70mai app.

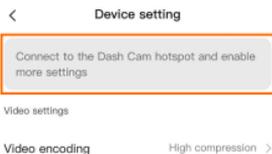
1. Start the 70mai app and tap ☰ in the upper right corner.



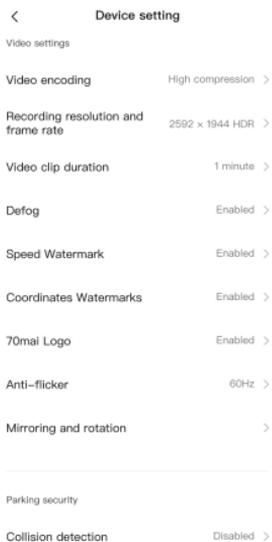
2. Tap Device setting.



3. Tap Connect to the Dash Cam hotspot and enable more settings.



4. Tap and configure settings.

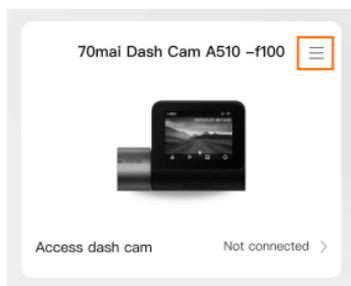


The settings should be consistent with those on the dash cam.

Updating the dash cam firmware

You can update the dash cam firmware on the 70mai app.

1. Start the 70mai app and tap  in the upper right corner.



- If any firmware update is available, a small red dot will appear next to **Firmware update**. Tap the update icon to open the download page.
2. Follow the instructions on the screen to download the new firmware.
A message is displayed after the download process is completed.
 - Make sure your smartphone is connected to the Internet when downloading.
 3. Tap **Push now** and follow the instructions on the screen to perform the update.
After the update is completed, your dash cam automatically restarts and uses the latest firmware.

70mai App

Problem	Cause/Solution
The dash cam cannot be connected to the 70mai app.	• Bluetooth and Wi-Fi may be disabled on your smartphone.
The video keeps freezing when it is played on the 70mai app.	• The Wi-Fi signal of the dash cam is interfered with. If the video keeps freezing, download it to the local album of the 70mai app and play it again.

Specifications

Image sensor	SONY IMX675
Resolution	2592 x 1944
Screen	2.0" TFT LCD screen
Aperture	F1.8 (front)/F2.0 (rear)
FOV	138°
Wi-Fi band	2.4 GHz
Accelerometer	3-axis accelerometer
Memory card	32 GB to 256 GB (U1/Class 10 or above)
Built-in battery	500 mAh li-ion battery
Suggested operating temperature	-10°C to +60°C
Input	DC 5V $\overline{\text{---}}$ 2A
Power port	Type-C
Power supply	Car charger + power cord, or parking surveillance cable (purchased separately)
Installation mode	Electrostatic sticker + Heat-resistant adhesive
Indicator	3-color (Red, Green, Blue)
Dimensions	85 mm x 63 mm x 37 mm (W x H x D)

- The product specifications and appearance are subject to change without prior notice.
- Although the LCD screen is made using extremely high-precision technology, note that some pixels may be missing or permanently lit.

Regulatory compliance information

WEEE information



All products bearing this symbol are waste electrical and electronic equipment (WEEE as in directive 2012/19/EU) which should not be mixed with unsorted household waste. Instead, you should protect human health and the environment by handing over your waste equipment to a designated collection point for the recycling of waste electrical and electronic equipment, appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. Please contact the installer or local authorities for more information about the location as well as terms and conditions of such collection points.

EU declaration of conformity



The manufacturer hereby, declares that this equipment is in compliance with the applicable Directives and European Norms, and amendments. The full text of the EU declaration of conformity is available at the following internet address: <https://help.70mai.asia/1193.html>



Hereby, 70mai Co.,Ltd. declares that the radio equipment types A510, A510-1, A510-2 are in compliance with Radio Equipment Regulations 2017. The full text of the UKCA declaration of conformity is available at the following internet address: <https://help.70mai.asia/2145.html>

FCC

15.19 Labelling requirements.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

15.21 Information to user.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.105 Information to the user.

Note: 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.

RF warning for Mobile device:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

FCC ID: 2AOK9-A510

ISED compliance statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device. L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) L'appareil ne doit pas produire de brouillage;

(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

ISED Radiation Exposure statement

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

IC: 28033-A510 CAN ICES-3(B) /NMB-3(B)

Service: help@70mai.com

For further information, please go to www.70mai.com

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