

4G Dashcam

User Manual V1.5

Please read this manual carefully prior to use. The content of this manual may change due to improvement in performance without prior notice.

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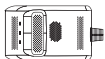
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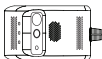
Introduction

1.1 Packing List

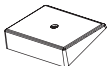
Standard



External Camera
Dashcam



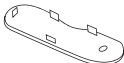
Integrated Camera
Dashcam(P)



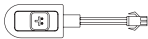
Bracket (for sedans)



Power bundle



Tamper cover



External SOS key



Philips screwdriver



Screws



Relay

Optional



Tamper lock



Bracket
(for heavy-duty trucks)



Bracket
(for medium-duty trucks)



Simple Version
Power Cable

- Please check the product model you purchased carefully as the packing list varies with the model.

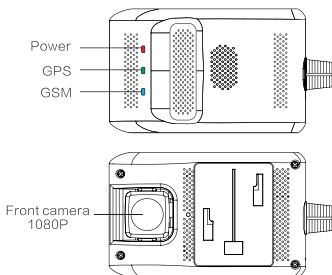
1.2 Overview

- The Dashcam uses 4G network for communication. For these dual-channel digital video recorders (DVRs), except to be able to record simultaneously, the two cameras can also record locally and live stream remotely at the same time. A number of safety features are included in the system, including DMS, ADAS, exception alerts, and more.

- Furthermore, the 4G capability of the device enables seamless video streaming, live audio alerts, rapid data upload, route replay, and video history playback. With all of these features, fleet managers can coach drivers based on data and improve operations to unlock more benefits, whether they're managing government, logistics, ride-hailing, or taxi fleets.

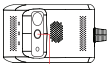
1.3 Appearance and LEDs


1.3.1 Main Unit




Product Model	External Camera Dashcam Main Unit
Camera	1920x1080/25FPS/F 2.2/Full color

1.3.2 Subcamera Options

Product Model	Integrated Camera Dashcam(P)	Integrated Version
Camera	1280x720/15FPS/F2.5/Full color in daytime and monochrome in dim light	
Usage	Monitor the cabin	

Product Model	External Camera Dashcam	Remote Cabin-view Version
Camera	1280x720/15FPS/F2.0/ Full color in daytime and monochrome in dim light	
Usage	Monitor the cabin	

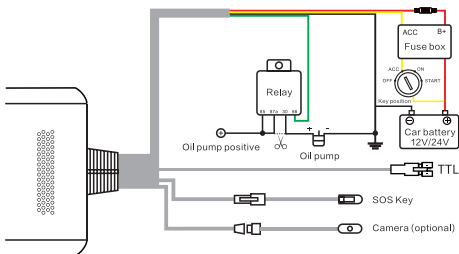
Product Model	External Camera Dashcam	DMS Camera
Camera	1280x720/10FPS/ monochrome all day	
Usage	Monitor the Driver	

- Refer to the specifications and features of the product model you purchased. If you have any questions, please contact your supplier.

1.3.3 LEDs

LED	Color	Indication	Status
Power	Red	Solid on	Device power on
		On for 0.5s and off for 10s	Device in sleep mode
		On for 1s and off for 1s	No TF card detected or TF card damaged
		Off	No power connected
Network	Blue	Solid on	Connection to server succeeded
		On for 5s and off for 1s	GSM and GPRS networks are available, but connection to server failed
		On for 1s and off for 1s	Only GSM network is available
		Off	GSM network is unavailable
GNSS	Green	Solid on	Located
		On for 1s and off for 1s	Device is locating/unlocated

1.4 Wirings



Cable	Definition	Color	Usage
Power	B+	Red	To battery positive (9-30V), power input
	GND	Black	To battery negative, power input
	ACC	Yellow	To ACC ON/Positive (9~30V), power input
	Relay	Green	To relay for remote power and fuel cutoff
TTL (optional)	I/O	/	To peripherals, such as oil sensor, card reader, etc.
SOS	SOS	/	To the external SOS key
Camera (optional)	Remote camera	/	Monitor the cabin Integrated Camera Dashcam(P) can not use this wire

Specifications and Features

2.1 Specifications

Category	Item	Parameter	Remarks
Hardware	Memory	1GB+16GB	/
	Standard version	4G	FDD: B1/B3/B5/B7/B8/B19/B20 TDD: B38/B39/B40/B41(100M)
		3G	WCDMA: B1/B2/B5/B8
		2G	GSM: 850/900/1800/1900
	American Version	4G	FDD: B2/B3/B4/B5/B7/B12/B17 TDD: B38/B41(100M)
		3G	WCDMA: B2/B4/B5
		2G	GSM: 850/1800/1900
	WiFi	2.4GHz	802.11/b/g/n
	GNSS	Support	GPS/BDS
	Microphone	Support	For remote voice communication
	Speaker	Support	To notify drivers of status or events
Interface/ Key	Reset key	Support	On the main unit
	Interface	Micro USB	For commissioning and upgrade
Others	Power supply	Fuse box	B+/ACC/GND
	Supply voltage	DC 9-30V	/
	Operating temperature	-20°C ~ 65°C	/

2.2 Features

No.	Feature	Description
1	Video recording	This enables the device to record in loop when the vehicle is moving.
2	Live video	This enables the device to live stream images captured by cameras via the LTE network to the platform (web or app).
3	Tracking	This enables the device to upload location data and motion information via the mobile network to the platform for analysis.
4	Event alert	This enables the device to upload alert messages and video files to the platform when an event is triggered by collision, vibration, dangerous driving behavior, emergency, DMS reminder, speeding, etc.
5	SOS call	This enables the driver to notify the platform at the earliest time possible, make a call, and activate video recording when an emergency occurs.
6	Remote control	This enables the user to deliver a lock command to the device via the platform (web or app) to remotely cutoff the fuel and power to the vehicle when an exception occurs.

Note:

For details about features, refer to the operation guide.

Installation

Precautions:

- This device is not suitable for battery electric vehicles (BEVs) and hybrid electric vehicles (HEVs).
- Use accessories specified by the manufacturer only.
- The standard supply for the device is DC9-30V, please use the original power cable and ensure that the positive and negative ends are correctly wired.
- Remove the protective film on the remote camera prior to installation.
- It is recommended to ask a distributor, a designated business, or an expert to do the installation and commissioning.

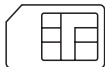
3.1 Preparation

Device check

- Check visually whether the device is in good condition and whether the relevant accessories are complete.

3.2 SIM Card Attachment

- Ensure that the device is ACC OFF before attaching a proper SIM card. In addition, the SIM should have data service activated and not in arrears.



Standard

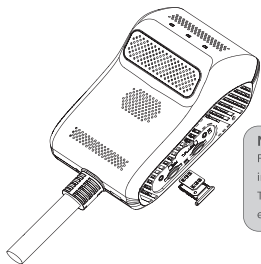


Micro



Nano





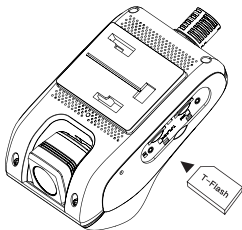
Note:

Fit the Nano-SIM into the tray and insert them into the SIM slot.

To remove the card tray, use the ejector tool.

3.3 TF Card Attachment

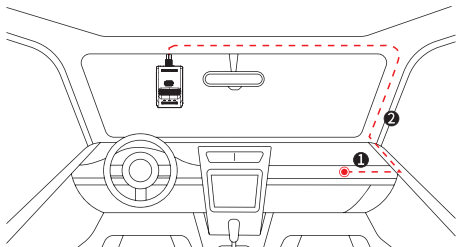
- Ensure that the device is ACC OFF before attaching a proper TF card.



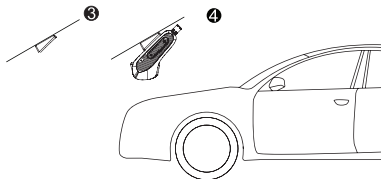
Note:

1. Use a TF card in speed class 10 or higher and with a capacity of 32GB or above.
 2. The TF card is recommended to change every half a year to ensure the recording performance of the device.
 3. Mount the tamper cover after the attachment.
- Fit the TF card in the correct slot.

3.4 Main Unit Installation



- Connect the power cable of the device to B+, ACC, and GND of the fuse box on the vehicle. ① is a reference position.
- Route the power cable along the A pillar of the vehicle to the upper center of the front windshield. The red dashed line (②) in the figure is for reference.

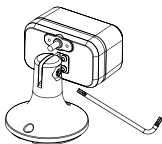
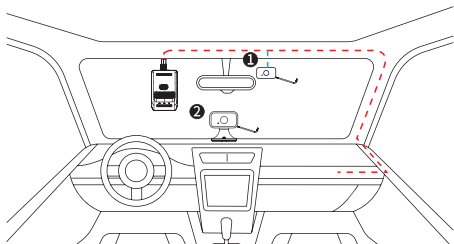


- Select a proper installation position and wipe the position clean. Remove the protective film from the 3M tape of the mounting base and attach it to the position. Wait for 2 hours before proceeding to the next step. See ③ for reference.
- Mount the device to the base and connect its power cable correctly (see ④ for reference). Then fasten the cable securely.

3.5 Installation of Accessories

- You can select a proper position to install the remote camera according to actual conditions.

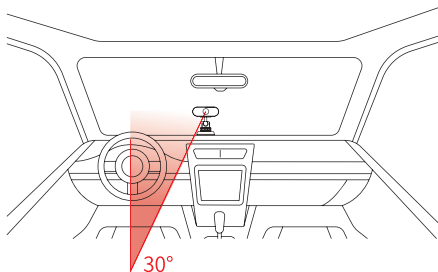
3.5.1 Remote AHD Camera



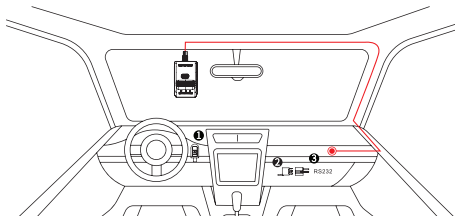
- Face the camera inward and install it to the windshield behind the rear-view mirror (as shown in ①) or to the middle of the dashboard (as shown in ②). Wipe a selected position clean, remove the protective film from the 3M tape, and attach the device.
- Use the supplied screwdriver to tighten the screw of the camera, so it keeps at the best angle. Connect the cables correctly and fasten them securely.

3.5.2 DMS Camera

- The DMS camera is mainly used for monitoring the driver. Fixate the camera at an angle about 30° to the steering wheel directly facing the driver's head, as the following figure shows.



3.5.3 Other Accessories



- SOS key

It is used to seek help in emergencies. Connect the SOS key to the corresponding interface on the device, remove the protective film from the 3M tape, and then attach it to a proper position (such as ① in the above figure).

- Relay

It is used to cut off the power and fuel of the vehicle remotely to force it to stop. Connect it to the corresponding interface on the device and place it in a proper position, such as ② in the above figure. For wiring details, see 1.4.

- TTL

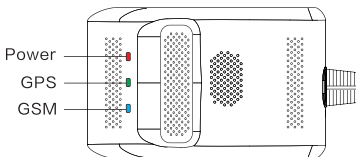
It is used to connect to an external device for function expansion when a scenario requires a feature that cannot be offered by the device. ③ is a reference installation position.

Note:

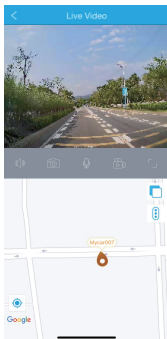
1. Choose proper accessories based on your actual needs.
2. Select a relay that goes perfectly with the battery of your vehicle.
3. It is recommended to ask a distributor, a designated business, or an expert to do the installation and commissioning.

3.6 Commissioning

- Check the LED, see 1.3.3 for reference.



- Check the camera: The camera works correctly if you can view the live video of the camera and switch between the two cameras after logging in to the platform. You can also manually adjust the camera according to your needs.



FCC Compliance Statements

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.

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

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 Exposure Compliance

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

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