



OEM FIT DASH CAM

T A I L E R F O R Y O U C A R

Please Read



MODEL: MG-0xxX
(xx=01-50.X=A-Z)



USER MANUAL

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www.mangoaltech.com



STOP

EXPERIENCING PROBLEMS?

- ▶ Item NOT as described?
- ▶ Damaged or defective?
- ▶ Missing items?
- ▶ Any issues what so ever?

CONTACT US BEFORE RETURNING THE ITEM

WE WILL HELP YOU RESOLVE ANY ISSUES ASAP.

CUSTOMER SERVICE

Hours: Mon - Fri 9am-5pm PST

EMAIL US



Response in just 6 hours

support@mangoaltech.com

TEXT US



For faster response text us

+1(564)203-0266

Scan the QR Code to Download APP



Just Scan the QR Code with your iPhone or Android's
Camera to get in touch with us.

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PRODUCT OVERVIEW

This Product is a leading Ultra HD Digital Vehicle Black Box Recorder. Equipped with ULTRA-HD Front 2160P @25fps and Rear 1080P(Optional) with MSTAR SSC8629Q processor +SONY IMX335 Sensor for excellent low light sensitivity and high dynamic range which allows you to record continuous high-quality video playbacks and brings phenomenal 4K Ultra-HD resolution videos even at night without the need for infrared sensors. It has superior night vision technology which captures superb video under all low-light conditions. It has advanced built-in 5G Wi-Fi, built-in GPS, 64G EMMC, G-Sensor, Emergency Video lock button, Audio recording, Loop cycle recording, 180 degree auto video rotation, Wide dynamic range, Parking mode, 24-HR Auto Trigger Parking Mode. When compared to most dash cameras, this exclusive product design provides an elegant appearance, packed with top rated unique features, records superb unbeatable videos and is very easy to use.

FEATURES



Built-In 5G WiFi



Auto Power OFF



G-Sensor



Live Speed



Built-In 5G WiFi



Live Compass



Video Rotate



Time Lapse Video



G-Sensor Parking Mode
(Parking Mode Hardwire Kit is required)



Built-In Speaker & Microphone



Time-Lapse Parking Mode
(Parking Mode Hardwire Kit is required)



MSTAR SSC8629Q processor + SONY IMX335 Sensor



4K Ultra-HD 3840*2160 @24 fps



150° Ultra-wide A+ Viewing Angle



Loop Cycle and Split Recording Mode



EMMC 5.1



Extended IF Card Max 218GB U3 C10
(Micro TF Card NOT Included-Required for camera operation)



Time, Date, Driving Speed, GPS stamp support Internal

WARNINGS

1.EMMC is used to save all pictures and videos generated by recorder work(详见PXX页)

2.EMMC: The currently implemented embedded MMC [8] (eMMC)architecture puts the MMC components(flash memory and controller) into a small ball grid array (BGA) IC package for use in circuit boards as an embedded non-volatile memory system.This is noticeably different from other versions of MMC as this is not a user-removable card, but rather a permanent attachment to the printed circuit board (PCB).

Because EMMC is embedded on the PCB board, the traditional recorder used on the TF card of the recorder is more likely to lose video, stop recording, crash, etc.

Data from: <https://en.wikipedia.org/wiki/MultiMediaCard#eMMC>

3.TF card slot supports additional insertion of up to 218GB U3 Class-10 Card,The use of the TF card is limited to copying the video from the EMMC(详见PXX页)

USER AGREEMENT

By purchasing MANGOAL Dash cam, it is assumed that by default you agree with precautions, user warnings and all the terms & conditions of warranty. If for any reason you do not agree with any of the terms mentioned in this manual, then you may return the product in its original packaging unused within its return window for a full refund.

PRE-CAUTIONS

Please read this manual very carefully before using the camera or installation and keep it safe for future reference. It will be helpful if you have any questions or encounter any operational problems.

WARNINGS

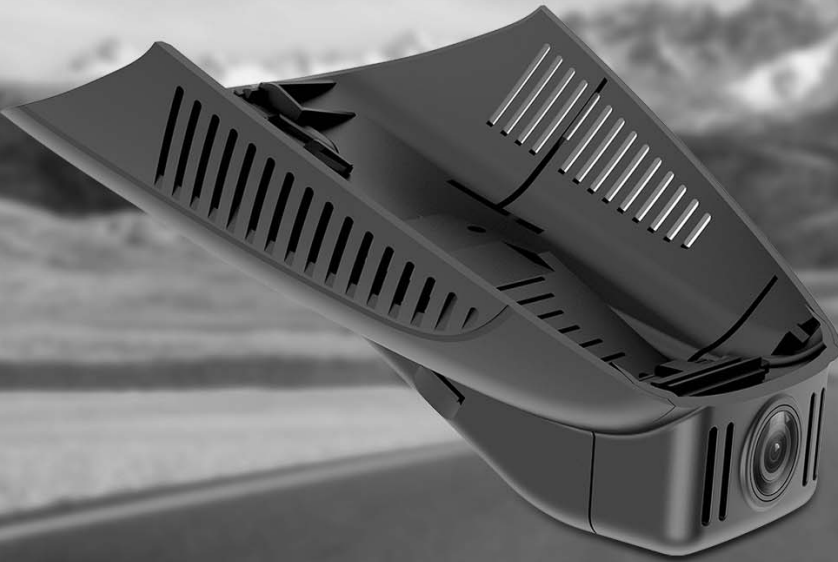
Failure to comply with safety warnings and regulations can result in serious injury or death.

Please read and understand all instructions before using this product. If any damage is caused by failure to follow the instructions, the warranty will be voided.

- Do not expose this product to rain, moisture or water under any circumstances or it will result in external or internal damage.
- Do not put the unit in a damp environment. This device is not designed to be damp proof.
- Do not try to open the cover or try to repair it yourself. If the accessories for this device have any problem, please contact the seller for assistance.
- This camera is intended to use inside motor vehicle. Don't install it where it will block the driver's view of the road including mirrors or the deployment of airbags.

- Do not place the camera loose on top of the dashboard or in-front of the air bags.
- Do not mount the camera where it can be a distraction if it became loose and fall off the windshield while driving.
- Do not expose this device to an excessive heat, dust or use any chemical substance or cleaning solvent to clean this device. Instead use soft moist cloth for cleaning.
- Pay careful attention when cleaning the lens surface. Use a soft, moist cloth to clean the lens to avoid scratches which may compromise video quality.
- Removing the camera from the vehicle when not in use is recommended. This prevents likelihood of theft or exposure to excessive heat to prevent damage to unit.
- Do not operate or install the camera while driving, or attempt to change any setting etc. Pull off the road first and only do so when it is safe.
- Do not drop, puncture or disassemble this product.
- Do not use the charger if the cord is broken or damaged. Keep out of reach of children.
- Do not leave the camera in the direct sunlight for a long period of time or where temperature could go above 140°F (60°C).

- Some countries or USA states prohibit drivers from mounting anything on windshield or prohibit mounting on certain area of the windshield. It is owner/operator's responsibility to mount or use of this device in compliance with local laws.
- The company is NOT responsible for the loss of any data or your content during operation or in any circumstance.



Getting Started

OUT OF THE BOX INSTRUCTIONS

Please read and understand warnings & safety instructions before operating.

- 1 Make sure to always keep the camera plugged into power, because camera have not internal battery.
- 2 You will not need to insert a memory card before you can start recording. Dash cam have 64GB EMMC5.1, If you need to export the video saved in EMMC to another TF card, you can insert a brand name Class-10, U3 or higher speed Micro-TF card up to 218 GB max for reliable operation. (Memory TFcard is NOT included in the packaging (详见PXX、XX页))
- 3 Before first time use, you MUST format the EMMC card in the camera to prevent any errors and for smooth operation.

- ④ MANGOAL dash cam is programmed to turn ON and START RECORDING automatically when it receives power, and STOPS RECORDING and turns OFF automatically when power gets disconnected within 4-5 seconds . (i.e. when you start /stop your car)
- ⑤ Setting Date & Time: When the power is turned on for the first time, the recorder will give a voice reminder“Please sync the phone time to the recorder”, You need to download the MANGOAL brand exclusive APP "SkyCamm", and follow the guide link to connect to the recorder
- ⑥ How to hide power cable inside your car's dash board? Many people on YouTube already demonstrated how and where to hide power cable inside your car. You can view one of the possible ways on the link, this video is NOT recorded by us.
- ⑦ How to transfer videos to PC/MAC?

CAMERA SPECIFICATIONS

Chipset / Sensor	MSTAR SSC8629Q/ SONY IMX335
Lens	150° A+ Ultra HD Wide Angle
Video Resolution	Front:3840x2160 @25fps (4K) 2560x1600 @25fps (2K) Rear:1920x1080 @25fps(Optional)
Lens Aperture	F 1.8
GPS	Built-in GPS Geo-Tagging Support
5G WiFi	Built-in
Photo / Video Format	JPEG / MP4
Memory Card(Inside)	64GB EMMC 5.1
Memory Card (Extended)	TF Card Class 10, U3 Speed, Max Support 218 GB
G-Sensor	Built-in 3-Axis Impact Accelerometer Gravitational Sensor to lock & protect current video.
Multi Language Support	English, French, Spanish, Portuguese, Deutsch, Italian, Russian, Simplified Chinese, Traditional Chinese, Japanese, Thai, Polish
Anti Flicker	60 Hz, 50 Hz
Distortion Correction	Support
Loop Recording	Support – seamless recording
G-SENSOR Parking Mode	Support
TIME-LAPSE Parking Mode	Support
Mic / Speaker	Built-in Micro Phone & Speaker
Power Interface	11-18Vdc
Temperature Guideline	Operating Temperature -22° F (-30°C) ~ 166° F (70°C), Working Humidity: 10 – 90%

PACKAGE CONTENTS



Dash cam



harging Cable



Car Wire Trim
Tool& cable tie



Rear Cam(Optional)



Rear Cam Charging
Cable (Optional)

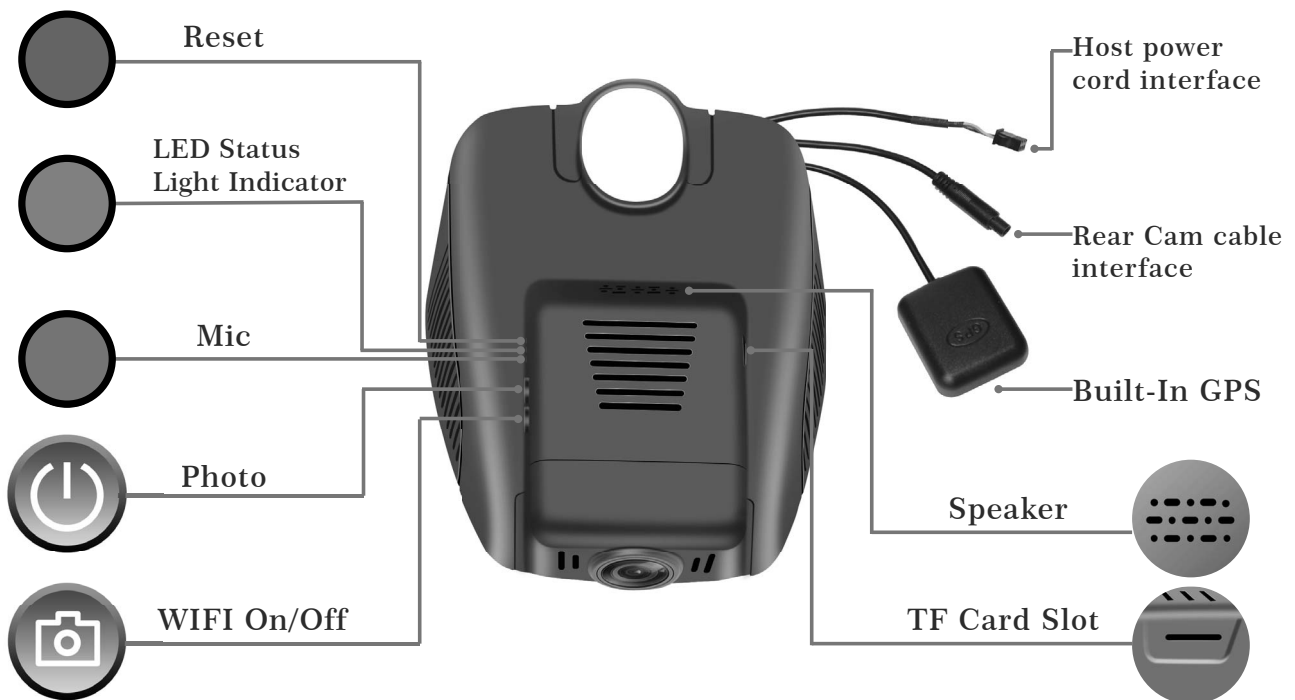


User Manual

NOTE

The picture shows the main unit is a sample, and the appearance of each OEM FIT dash cam main unit and wiring harness is different , the specific model is subject to the order selected

UNIT STRUCTURE APPEARANCE & BUTTONS



NOTE

The picture shows the main unit is a sample, and the appearance of each OEM FIT dash cam main unit and wiring harness is different, the specific model is subject to the order selected

INSTALLATION

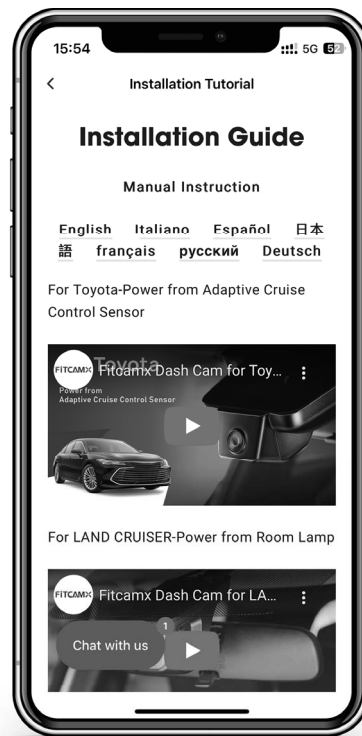
MANGOAL OEM Fit Dash cam is customized according to different models. The disassembly, assembly, power supply and wiring methods of the original car accessories of specific models are different. There are four ways to get your order recorder

installation:

A、 There is an installation instruction manual in the product packaging box, you can read it carefully and refer to the construction and installation!

B、 Email us "support@mangoaltech.com" to get the installation video, we will send you the installation video within 24 hours and provide installation guidance!

C、 Download the APP "Skycamm", enter "MORE"_"Installation Video", find the corresponding model and click to view the installation video。



D、 Enter the official website of the "Mangoal" brand to view the installation video of related models. Website: <https://mangoaltech.com/>

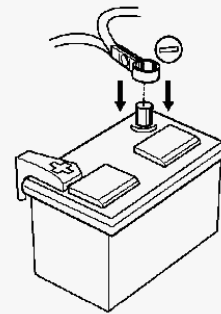
INSTALLATION PREPARATION

Protect vehicle and Disconnect Battery

- (a) Protect the center console before starting.
 - (b) Check product and the kit for contents or damage.
 - (c) Locate the Battery service hole cover and disengage the clips
- Remove battery negative terminal

CAUTION

Do not touch the positive terminal with any tool during removal.

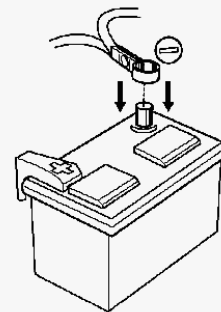


FINISHING INSTALL

- (a) Reconnect the negative battery cable , Reinstall Battery Cover and Put on Protective Covering
- (b) Start the engine and check if the product works properly.

CAUTION

Do not touch the positive terminal with any tool during removal.



NOTE

- ⦿ After a test drive, check and make sure if all the videos are recorded correctly.
- ⦿ Make sure to remove the Plastic Lens Screen Protector from the lens before recording videos. Otherwise your videos will look

TURNING YOUR CAMERA ON/OFF

AUTO POWER ON/OFF

- **Auto Power ON:** MANGOAL Dash Cam is designed to turn ON and start recording automatically when it receives power. i.e. when the car engine is started
- **Auto Power OFF:** The camera is also pre-configured to turn itself OFF automatically within few seconds when the power gets disconnected, i.e. when the car key is turned to LOCK position.

NOTE

The first time the recorder is turned on, there will be a voice reminder: Please sync the phone time to the recorder, connect the APP to automatically calibrate the clock in the following way. Do it once!

USING WiFi FEATURE



What is the WiFi Range?

The WiFi feature has been designed so you can pair your dash camera wirelessly with your smartphone and access your recording instantly from the dash cam. Here you can view, download and share your videos easily with your friends and family. Just like how you would connect your Bluetooth speaker to your smartphone for wireless music play, the same way dash cameras use WiFi signal (instead of a Bluetooth) to pair your smartphone

What is the WiFi Range?

The WiFi signal range is about 10FT when there are NO obstructions in the middle. Please NOTE that just like your home WiFi network, you can't have WiFi signal outside your home, the same way, WiFi range is 10FT from this small device.

Can I watch the videos or surveillance around my car remotely?

NO. dash cam is NOT made to broadcast footage over the cloud or internet. It is NOT a cloud or an IP camera and it is NOT meant to do that. You can get live video and footage on Skycamm APP as long as you stay within the 10FT range from the dash cam.

Pairing your Dash cam with your Smart Phone using Wifi



1

Search for “SkyCamm” in App Store or Google Play Store to find the App and then download and install it on your phone.



2

Scan the QR code above to download

SHORTCUTS & UNDERSTANDING BUTTONS

BUTTON IMAGE	BUTTON NAME	SHORTCUTS / FUNCTIONS	ACCOMPANIED BY VOICE REMINDER
	WIFI POWER BUTTON	To Turn ON The WIFI: Press power button once.	WIFI is starting/ WIFI is off
		Restart The Camera: Long press power button for 3-seconds.	WIFI is on

	PHOTO BUTTON	To Turn ON The WIFI: Press power button once.	Successful photo
		Reset: Long press photo button for 3-seconds.	Dong Dong Dong WIFI is on

VIOCE REMINDER

VOICE

Start recording	Video locked
WiFi is off	Successful photo
Start time-lapse recording	Start emergency recording
Restoring factory settings	WiFi is starting
WiFi is on	Please insert a memory card
Please format the memory card	The memory card is initializing
Please sync the phone time to the recorder	

LED STATUS LIGHT INDICATOR

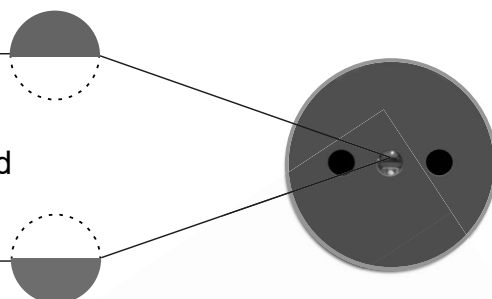
(Front Camera)

SOLID RED LED - WIFI not working

NO RED LED - WIFI is working

BLINKING GREEN LED - Video Recording Started

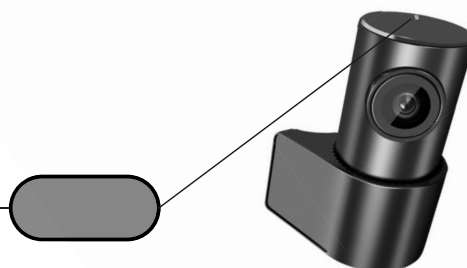
SOLID GREEN LED - Stop Video Mode



(Rear Camera)

SOLID RED LED - Rear Cam is working

NO GREEN LED - Rear Cam is not working



NOTE

Press  to switch between "SOLID RED LED" and "NO RED LED" functions, so as to switch WIFI

CONNECTING DASH CAM WITH SMART PHONE

TURN ON WiFi FROM THE CAMERA: The dash cam turns on and WIFI starts to work automatically.

NOTE

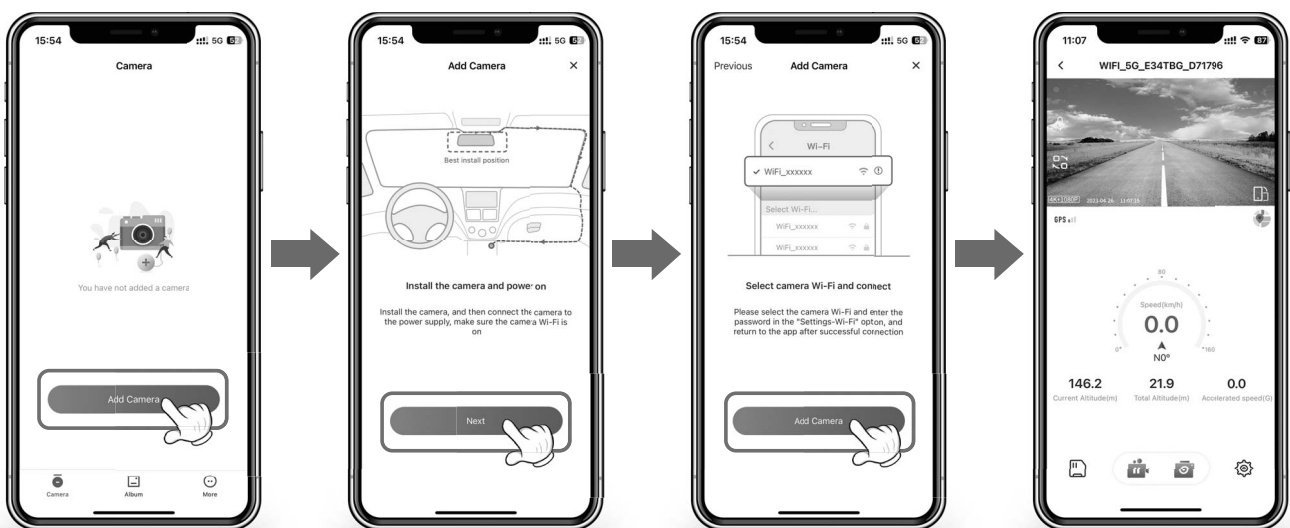
When the recorder is working normally for 10 minutes and the mobile phone is not connected to the WIFI of the recorder, the WIFI will automatically enter the dormant off state. At this time, the WIFI cannot be searched. In this state, press the WIFI power button  on the recorder to wake it up again. WIFI.

CONNECT WiFi: Now Simply join the Dash cam WiFi by going into your iPhone or Android phone's Settings > WiFi > **WIFI_5G_E34TBG**

Then Enter the default password: 12345678. Then JOIN the network.

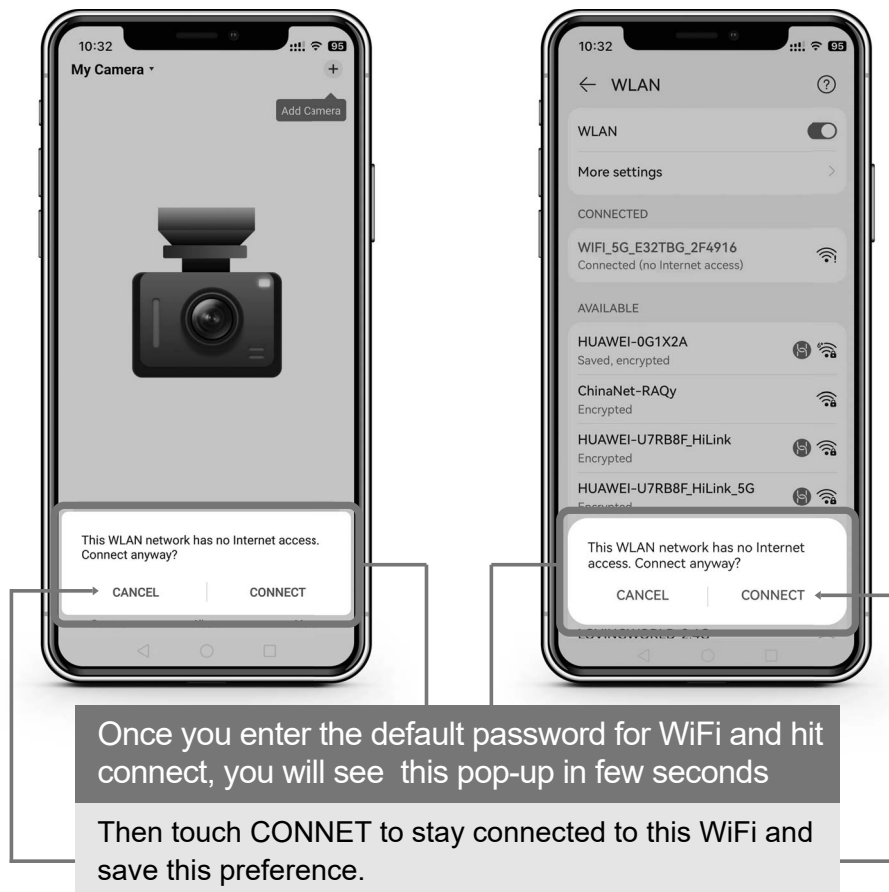
NOW OPEN THE SKYCamm APP: Once your camera is connected to WiFi successfully and when you open the SkyCamm App, the camera will sync automatically.

You should see the live video feed from the camera on the SkyCamm APP. Then keep exploring the APP from here on.

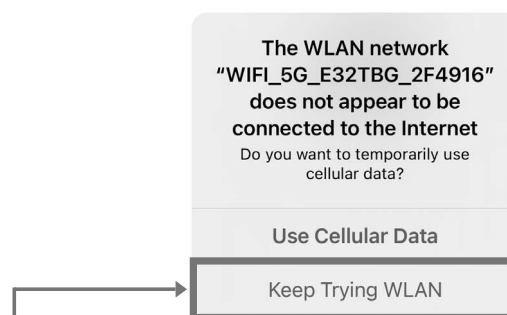


For Android phones:

There is one extra step you will have to take for the first time. Once you connect to WiFi or open the SkyCamm App, it will say "No Internet". Which is fine. Wait about 5-10 seconds until you see the below pop up or notification. You just have to tap on the pop up notification that will show up in a few seconds to select that you still want to stay connected even though there is NO Internet. Once you select this OK, you are set to go. Please contact us if you need any help.

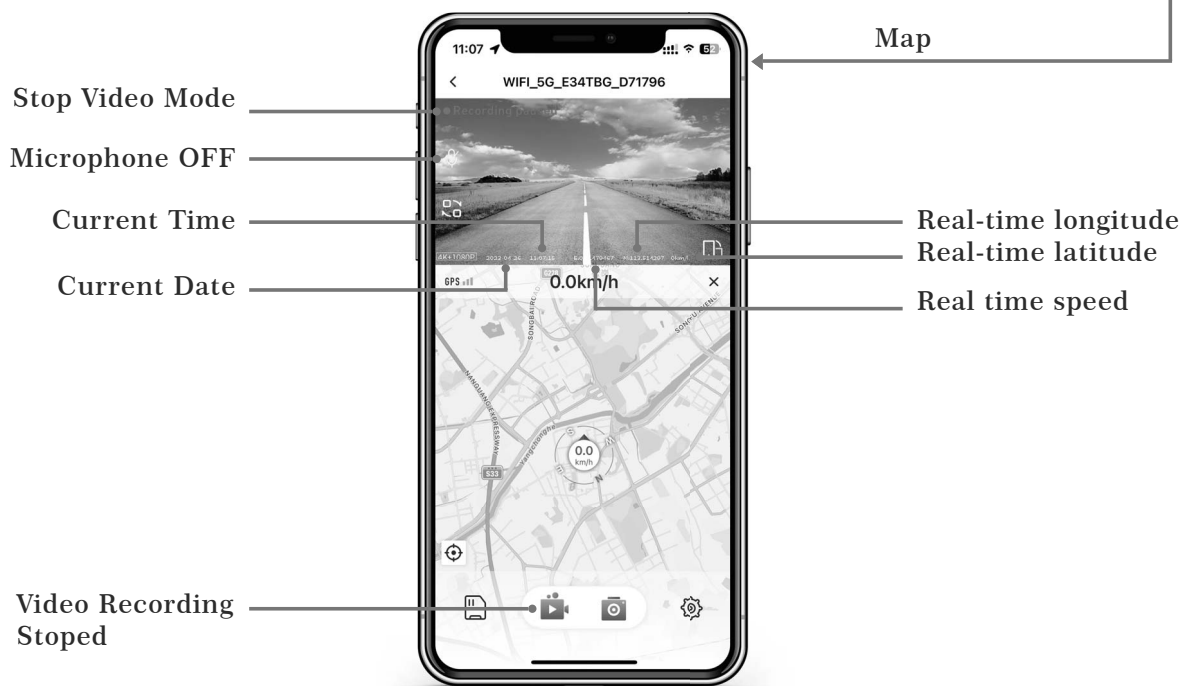
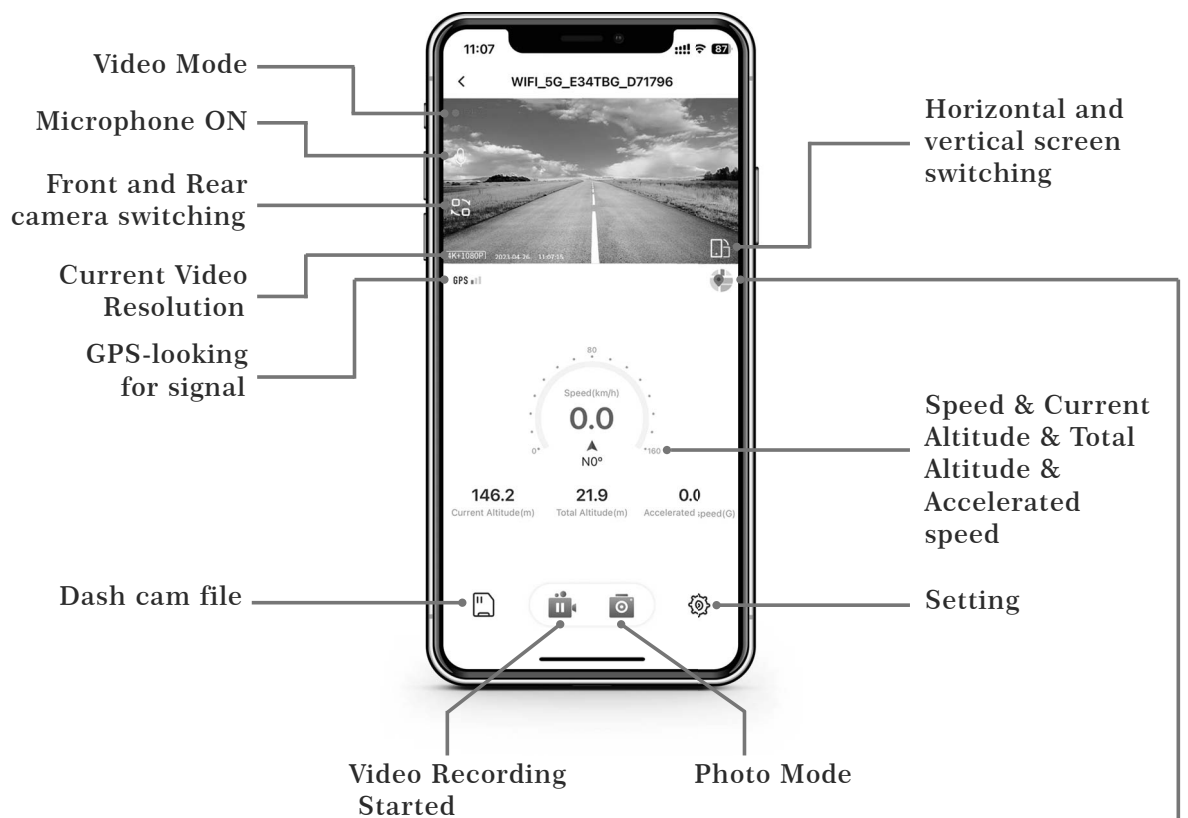


For iPhone:



If you get this pop up for your iPhone while using WiFi feature, make sure to tap on "Keep Trying WLAN". Otherwise the camera will get disconnected from the WiFi and then you will have to forget the WiFi and then start to pair again for it to work again.

APP HOME SCREEN



Home Screen Status Icons

ICONS	WHAT DOES IT MEAN?
	Video Recording Started
	Video Recording Stopped
	Photo Mode
	Setting
	Dash cam file
	GPS - Now has Signal
	GPS - looking for signal
	Video Mode
	Stop Video Mode
2023-04-26 11:07:15	Current Date Current Time

ICONS	WHAT DOES IT MEAN?
	Map
	Front and Rear camera switching
	Microphone ON
	Microphone OFF
	Speed & Current Altitude & Total Altitude & Accelerated speed
E:022.479467	Real-time longitude
N:113.514297	Real-time latitude
0km/h	Real time speed
4K+1080P	Current Video Resolution



FCC Statement:

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.

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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 and your body.