

## MEITRACK® AI Dashcam




## MD101 User Guide

## Change History

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## Document Update Record

Version	Date	Modifications
1.0	2023-07-14	Initial draft
1.1	2023-10-23	<ol style="list-style-type: none"> <li>1. Modify the appearance diagram</li> <li>2. Modify the supported frequency band</li> <li>3. Add the platform end Settings</li> <li>4. modify the size of the equipment</li> </ol>
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2.0	2023-12-06	<ol style="list-style-type: none"> <li>1. Change the platform IP address</li> <li>2. Definition of new wires</li> <li>3. Modifying input voltage range</li> <li>4. Adding new connections for left and right turn signals</li> <li>5. Adding description of AI sensitivity parameters</li> <li>6. Adding operating instructions for platform function</li> <li>7. AI alarm increase: Camera Covered and Driver Absence Detected.</li> </ol>

## Precautions for use

### Warning

1. The dangerous driving prompts issued by the equipment cannot replace the driver's driving decisions and operations;
2. The dangerous driving prompts issued by the device are developed based on computer vision and deep learning technology, and cannot guarantee 100% recognition accuracy. For example, the accuracy of algorithm recognition varies under different road and weather conditions.
3. The preparation aims to enhance users' understanding of driving conditions under correct usage. If used improperly, users may be distracted, leading to accidents, property damage or personal injury. During driving, do not attempt to view information stored on the device or change device settings. Only operate the device when your vehicle is stationary and parked in a safe place in accordance with local laws. Please always maintain awareness of the surrounding environment and avoid being distracted by the display screen or phone. Focusing on equipment may lead to driving hazards. The risk of using this device will be borne by the user.
4. When installing the device on a vehicle, please do not place it in a place that hinders the driver's ability to see the road or interferes with vehicle operation and control, such as the steering wheel, pedals, or transmission lever. Do not place it loosely on the vehicle dashboard. Do not place the device in front of or on top of any airbags.
5. Drivers are prohibited or restricted from playing videos on their devices in certain regions. Please comply with relevant laws in each region.

### Maintenance precautions

1. Please keep the equipment dry. Do not let the equipment and cables stay in a damp environment, and do not operate the equipment with wet hands to avoid faults caused by short circuits, corrosion, or electric shock to personnel.
2. Equipment should be subjected to strong impacts or vibrations to avoid equipment failure.
3. Place the equipment and power supply at high or low temperatures, otherwise, it may cause equipment malfunction.
4. Please do not hit, throw, or puncture the equipment, and avoid dropping or squeezing the equipment.
5. Please do not use unofficially approved or provided power and data cables.
6. Please do not dismantle the equipment and accessories without authorization, otherwise the equipment and accessories will not be covered by the warranty.

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## 1 Product Introduction

MD101 is a comprehensive automotive active safety product that integrates functions such as satellite positioning, video surveillance, and active safety. This product meets the needs of fleet monitoring, management, driving safety, and standardized driving behavior. Based on advanced deep learning technology, intelligent algorithms such as Advanced driver-assistance system (ADAS), Driver Monitoring System (DMS), Lane Change Assistance (LCA) and active safety functions can be applied to complex driving scenarios, improve the safety and efficiency of traffic driving, and enhance the overall user experience. The integration of artificial intelligence technology into the driving process of vehicles can further standardize the safe driving behavior of drivers.

## 2 Product Specifications

Main Device	
CPU	Dual cores, 1.2GHz
RAM	Capacity: 2Gb 16-bit DDR3(L)
System Structure	
System operation	Linux
Built-in AI algorithm	ADAS & DMS algorithms
Audio and Video	
Compression standard	H264
Audio compression	PCM、WAV
Built-in speaker	Mono support
Built-in MIC	Mono support
ADAS front camera	
Sensor	1/2.9", 2MP CMOS sensor
FOV	D:125° H:105° V:58°
Resolution	720P;
Frame rate	720p15fps
DMS Rear Camera	
Sensor	1/3", 2MP CMOS sensor
FOV	D:120°H:100° V:45°
Resolution	1080P
Frame rate	1080p@15fps
Frequency band	
MD101-E	WCDMA: B1/B5/B8
	LTE-FDD: B1/B3/B7/B8/B20/B28
	LTE-TDD: B38/B40/B41
MD101-A	WCDMA: B2/B4/B5
	LTE-FDD: B2/B4/B12

MD101-AU	GSM: B2/B3/B5/B8 WCDMA: B1/B2/B5/B8 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE-TDD: B40
MD101-J	WCDMA: B1/B6/B8/B19 LTE-FDD: B1/B3/B8/B18/B19/B26 LTE-TDD: B41

Others	
Power supply	9-36V
Sensors	3-axis acceleration sensor
Storage media	TF card, up to 256GB(It is recommended that you should use a class 10 or above FAT32 card.)
Working temperature	Without battery: -20°C to 70°C
Storage temperature	-30°C to 80°C
Relative humidity	10% to 90%, non-condensing
Atmospheric pressure	860Mbar to 1060Mbar
GPS sensitivity	-165 dB
WiFi	Supports APP connection only
Weight	198g
Demensions	116mmx66mmx38mm

### 3 Main Devices and Accessories

#### 3.1 Main Device



MD101 Host



SOS Alarm Button



SIM Card Pin Ejector



GPS Antenna



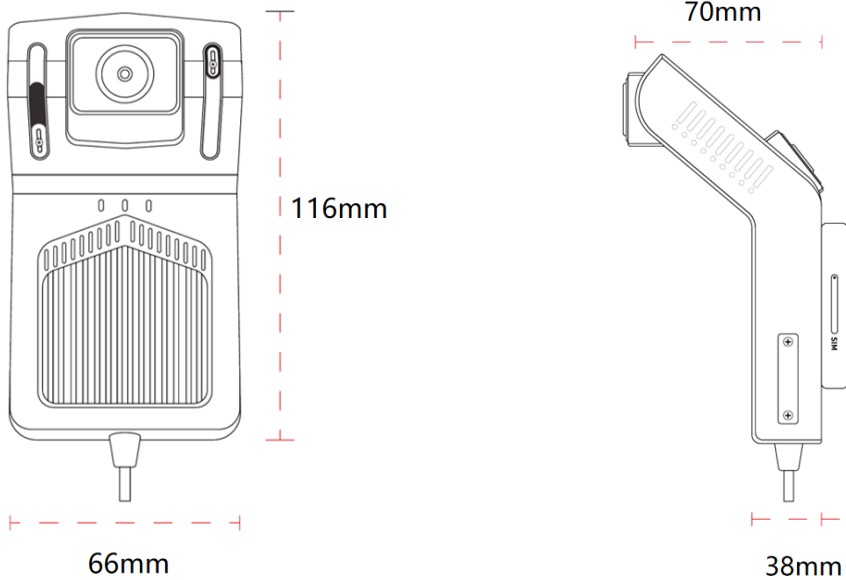
2m Power Cord

Standard	Quantity
MD101 host	1
SOS alarm button	1
GPS antenna	1
2m power cord	1

SIM card pin ejector	1
Total	5


## 4 Product Appearance and LED Status

### 4.1 Appearance


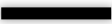








No.	Icon	Name	Description
1		Recording indicator light	Red, blue, and purple colors indicate the recording status
2		Network indicator light	The yellow color indicates the 4G network status
3		GPS indicator light	The green color indicates the GPS positioning status
4	NA	DMS camera	1080P DMS camera
5	NA	Heat sink	Metal heat sinks
6	NA	Tail line outlet	Default 6PIN tail cable
7	NA	Fixed lock for DMS camera	Locking the position of the DMS camera
8	NA	Fixed lock for DMS camera	Locking the position of the ADAS camera



No.	Icon	Name	Description
1	NA	Heat Sinks	
2	NA	Communication Module	4G Communication Module
3	R	Reset button	Single-click reset by using the probe
4		WiFi key	Short Trigger: Turn on/off the WiFi function. Voice broadcasting: WiFi is ON/OFF.
5	SIM	SIM card slot	Support Nano-SIM card
6	NA	TF card slot	Support up to 256GB, Class10 and above
7	NA	ADAS camera	720P ADAS camera
8	NA	Labeling	Product model label




## 4.2 Definitions of Ports

No.	Wire Color	Definition	Description	Port
1	Red 	BBAT+	Power input positive, input voltage: 9~36V; Connect to car and battery positive.	Bare wire
2	Black 	GND	Ground wire is connected to the negative terminal of the vehicle battery;	Bare wire
3	Yellow 	ACC	It is used to connect the vehicle ACC and check the vehicle ignition status;	Bare wire
4	White 	SOS	SOS Emergency Alarm Button;	SM-A Pair Connector
	Blue 			
5	Orange 	RIGHT-IN	Connect the right turn signal wire;	Bare Wire
6	Green 	LEFT-IN	Connect the left turn signal wire;	Bare Wire
7	Black 	GPS	4PIN BMW header harness for docking GPS antenna;	4PIN BMW Header



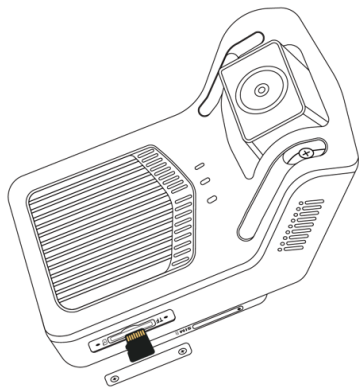
## 4.3 Power On and LED Status

The device will automatically turn on when the red wire is connected to the power cord, and the blue/red light is always on.

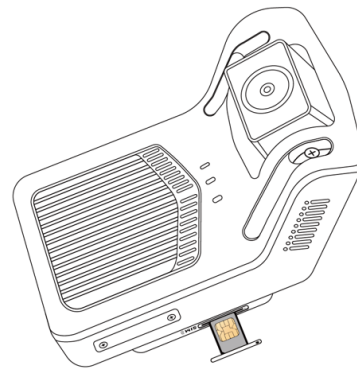
Meaning	Icon	Color	Status	Description
Video Light		Red/Blue	Steady on	Power off.
			Blue light steady on	The system is running normally, but not recording.
			Red light steady on	Recording.
4G Signal Light		Yellow	Steady off	No signal is received.
			Blink	4G signal available, not yet on the platform
			Steady on	4G signal is available and the platform is online.
GPS Light		Green	Steady off	No GPS signal is received.
			Blink	GPS signal available, not located
			Steady on	GPS signal available and successfully located

## 5 First Installing

### 5.1 Installing the SIM Card and SD Card



SD card installation



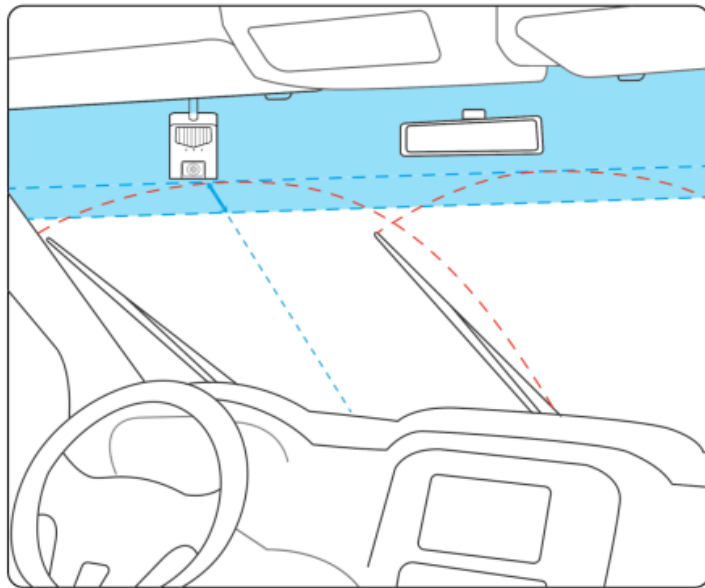
SIM card installation

### 5.2 Suggest of Main Device Location Installation

It is recommended to install the MD101 on the upper edge of the windshield directly above the steering wheel, as shown in the figure.

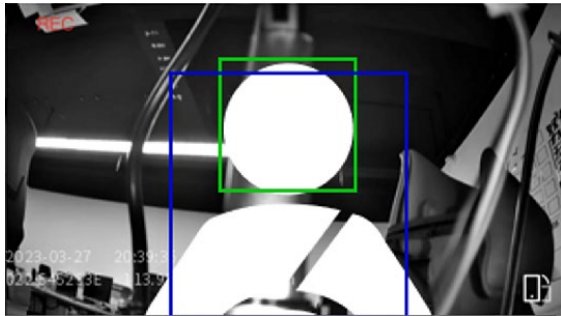
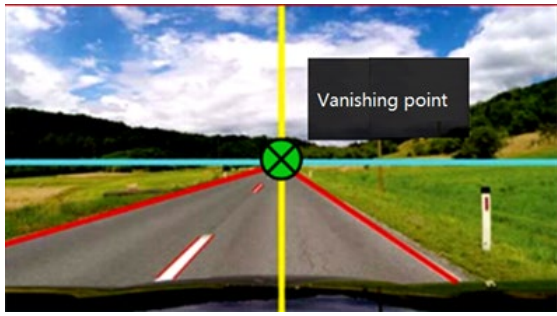
To ensure safe driving and maximize the accuracy of AI algorithms, the choice of device installation location should be based on the following principles:

- Do not block the driver's view.
- Do not interfere with the driver's driving.
- The device should be kept level and not tilted.
- The driver's face should preferably be displayed in the center of the inward-facing camera's image (see preview in the "viidure" APP).
- The center of the front camera frame should preferably coincide with the horizon (see preview in the "viidure" APP).



### 5.3 DMS and ADAS camera adjustment

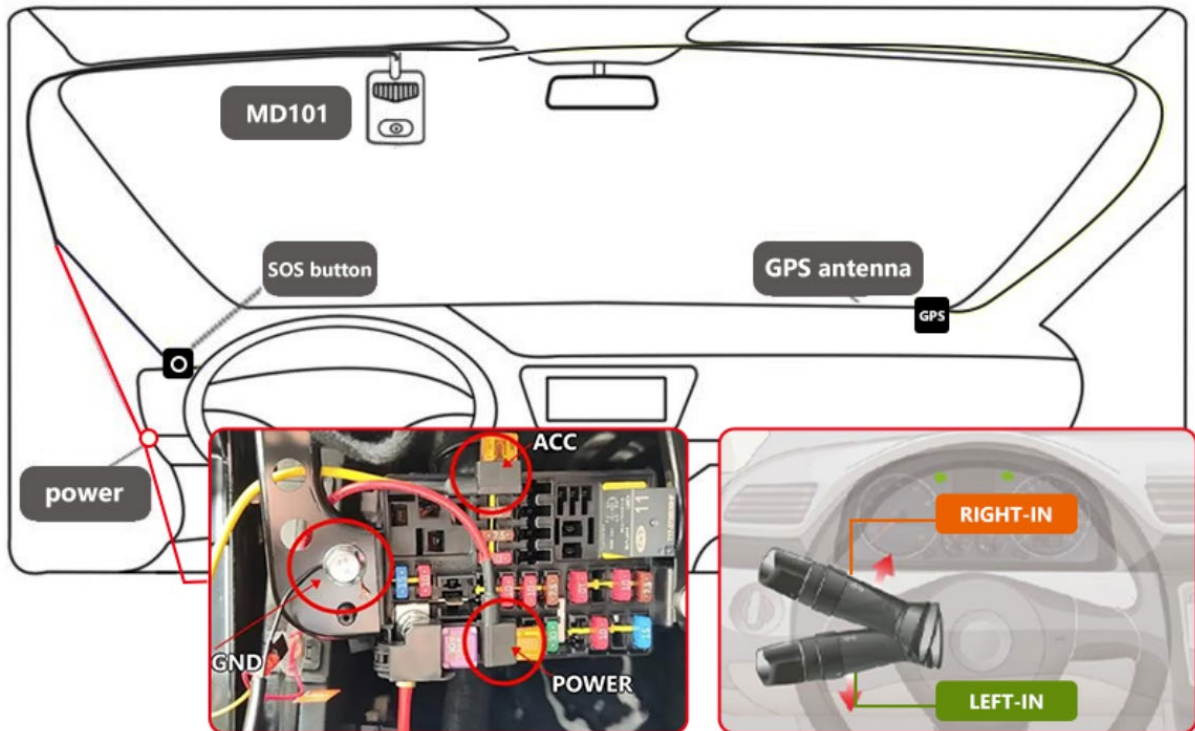


DMS Camera adjustment	ADAS Camera adjustment
 <p>Adjust the camera to clearly capture the angle of the face and chest, ensuring that the angle of the face and chest appears with green (face) and blue (seat belt) boxes. After confirming the position of the DMS camera, tighten the screws.</p>	 <p>Adjust the angle of the front camera so that the Vanishing point of the road is in the middle of the picture. After confirming the position of the ADAS camera, tighten the screws.</p>

Note: APP can view AI video rendering effect, please see [6.3 ADAS/DMS APP video rendering](#).

## 5.4 Host wiring

Please connect the ACC cable and power cord to the corresponding original vehicle fuse socket

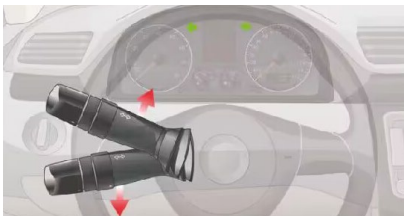


Note: 1. If you do not know whether the fused interface corresponds to ACC or constant current, please use a multimeter or test pen to measure, as follows:

- a. When the vehicle is turned off and powered off, the test pen light illuminates to prove that this port is a constant power interface;
- b. Start the vehicle and use a test pen to measure it. The previously off light is now on, and this port is ACC.

2. If you are unsure about which fuse interface corresponds to the turn signal, please use a multimeter or a test pen for the following steps:

- a. Start the vehicle and turn on/off the left or right turn signal. Use a test pen to detect the fuse interface. If the interface lit up or turned off in sync with the turn signal, then that interface the left/right turn signal switch check port.



- b. If you are not connecting the left/right turn signal detection wire, please disable the lane departure warning function. Otherwise, it will trigger the lane departure warning event by default.



## 6 APP Configuration

### 6.1 Downloading APP

Search for the "Viidure" app in the mobile Google app market or Appstore, download and install it.



**Note:**

If Google Market is unable to download or install, please download it through the following link.

[https://www.meitrack.com/cd-download/Aided\\_Software/viidure.apk](https://www.meitrack.com/cd-download/Aided_Software/viidure.apk)

### 6.2 APP connect to MD101

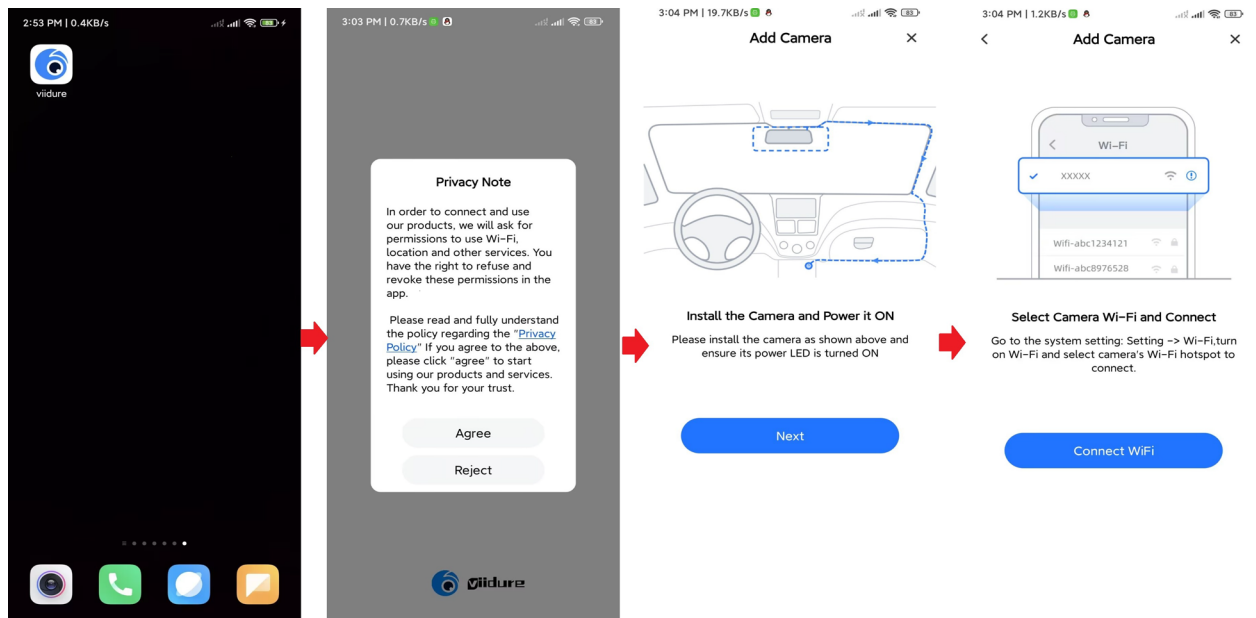
MD101 is connected to an external power source and turned on. Ensure that the recording blue light is always on. Press the WiFi button on the device and you will hear a voice reminder saying "WiFi is on" to turn on the WiFi function.



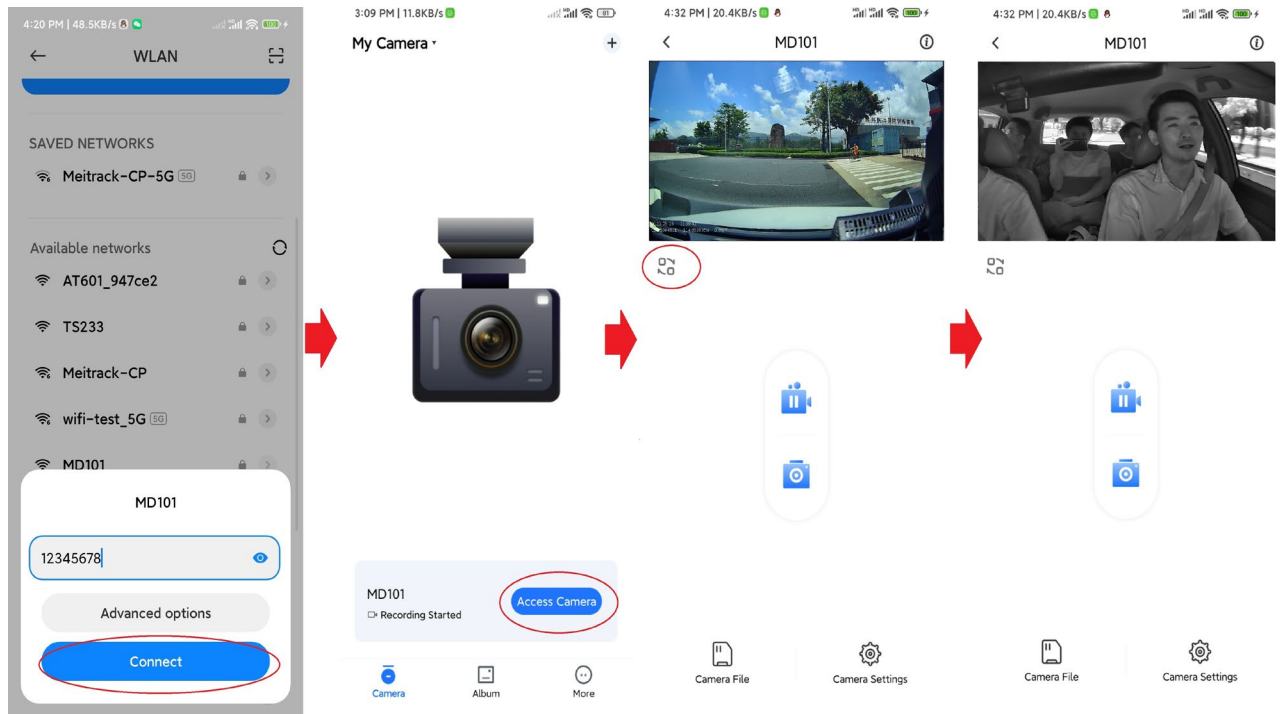
Please open the app and follow the steps shown below:

**Note:** The WIFI search name is: **MD101\_IMEI** Default Password: **12345678**

The name and password can be modified through the app.



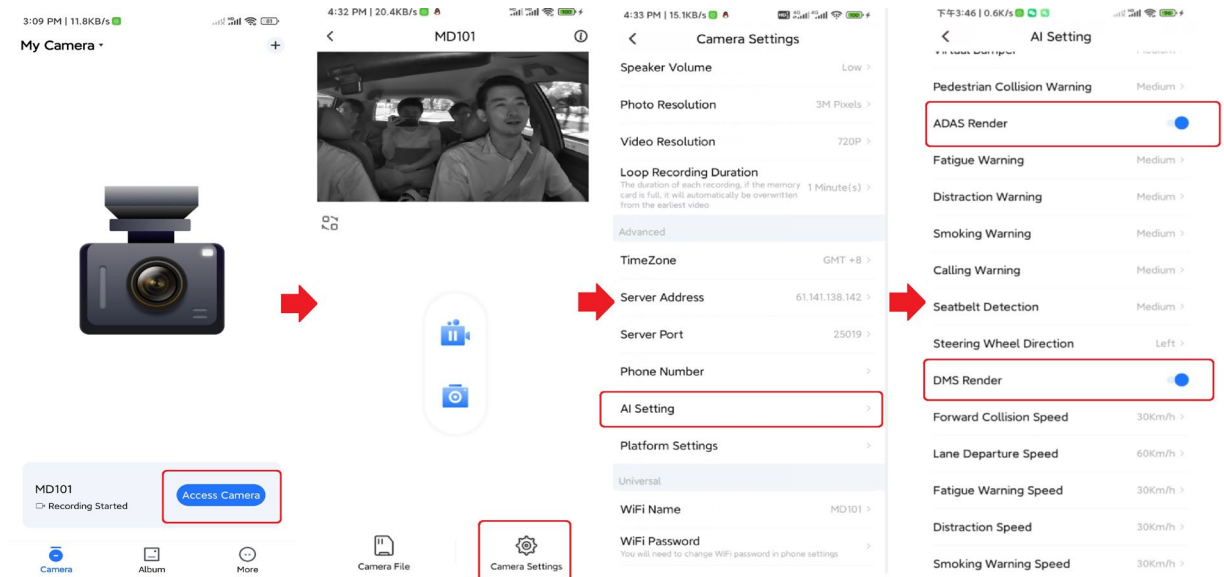
After connecting to the WiFi of MD101, you can connect to the device through the APP and set the parameters of MD101.



- Note:** 1. An MD101 device can only be connected to one phone at a time, otherwise errors may occur.  
 2. If WIFI cannot be found, make sure the ACC line is active.

### 6.3 ADAS/DMS APP video rendering

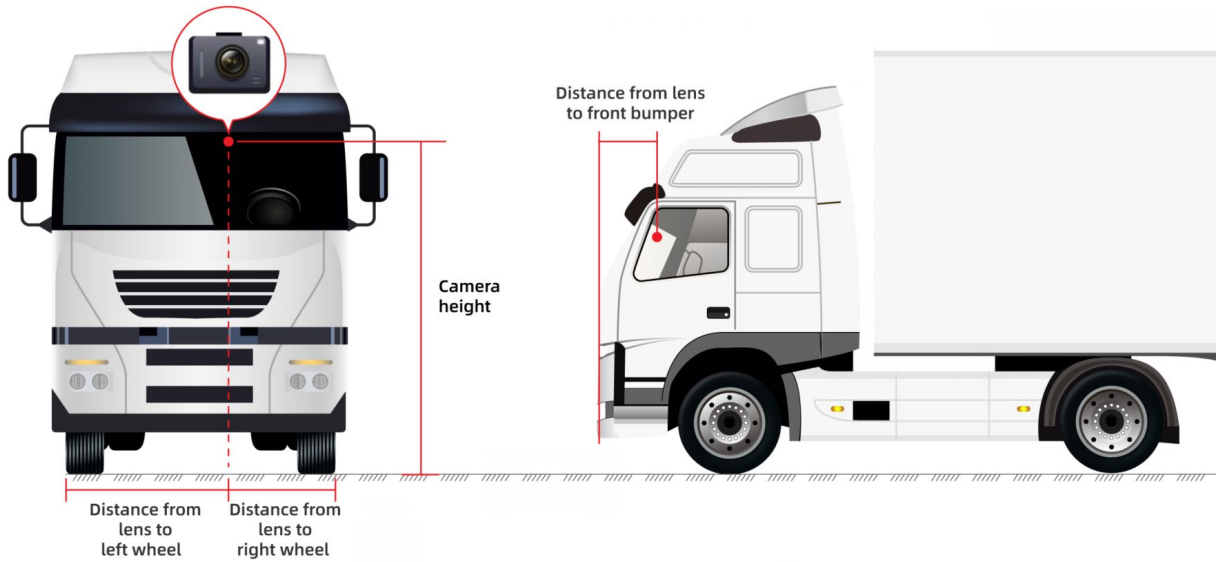
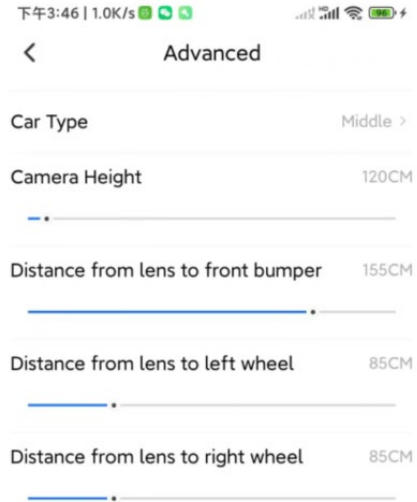
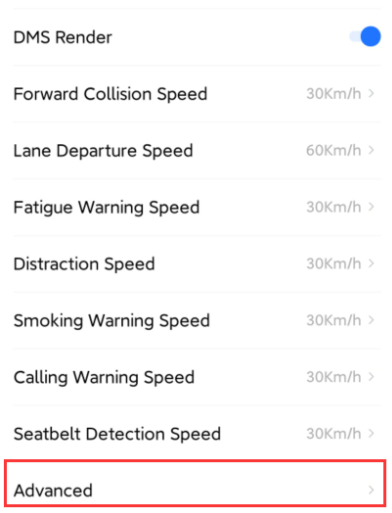
After connecting to MD101, click Recorder Settings - Algorithm Settings (as shown below). Open video rendering for ADAS/DMS.



**Note:** The video rendering of ADAS/DMS is only displayed in the APP. When customers install it for the first time, they need to check the installation position before enabling the APP video rendering function.

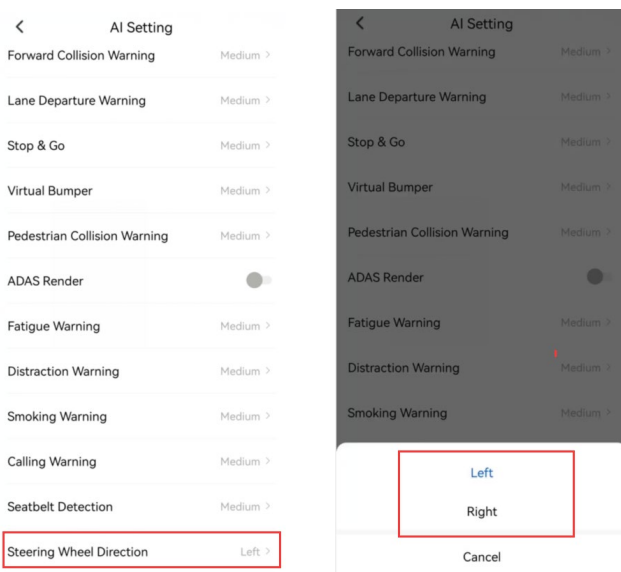
### 6.4 Setting MD101 and vehicle Parameters

Filling in the parameters for device location in advanced settings can make the algorithm more accurate (not mandatory).



### 6.5 ADAS & DMS Calibration

1、 Select "AI Setting" - "Steering Wheel Direction" to select the direction of the steering wheel, which is left by default.



2、 MD101 adopts automatic calibration. Before the first calibration, the device does not output any alerts. When the driving speed is detected to be consistently greater than 20 km/h, it will automatically enter the calibration.

3、 The AI sensitivity parameters are described as follows:

Alarm Type	Sensitivity Setting		
	High	Medium	Low
Forward Collision	ttc <= 3.5s	ttc <=2.7s	ttc <= 1.8s
Lane Departure	Distance from the wheel to the lane line: <=0.15m Lane correction cooldown time: 0.7s	Distance from the wheel to the lane line: <=0m Lane correction cooldown time: 1s	Distance from the wheel to the lane line: <=0.15m Lane correction cooldown time: 1.5s Suppress alarm when there is significant lateral acceleration. Suppress alarm for short lane changes
Front Vehicle Start-up Warning( Stop & Go)	ttc <= 3.5s	ttc <=2.7s	ttc <= 1.8s Suppress alarm when the vehicle GPS speed decelerates significantly
Distance Detection( Virtual Bumper)	Distance to the front vehicle: <=(3-5)m And the two vehicles are close to each other.	Distance to front vehicle:<=(2-4)m And the two vehicles are close to each other	Distance to front vehicle: <=(1-3)m And the two vehicles are close to each other
Pedestrian Collision Warning	absttc<=1.6 s Warning range, 0.1m outside the vehicle	absttc <= 1.3 s Warning range, 0m outside the vehicle	absttc <= 1 s Warning range, 0.1m inside the vehicle
Fatigue Driving Warning	Eyes closed or mouth open time >= 1s Lip height-width ratio >= 0.4	Eyes closed or mouth open time >= 2s Lip height-width ratio >= 0.5	yes closed or mouth open time >= 3s Lip height-width ratio >= 0.6
Distraction Warning	Face posture above the threshold time >= 1s pitch >= 30 degrees or yaw >= 30 degrees	Face posture above the threshold time >= 2s pitch >= 35 degrees or yaw >= 35 degrees	Face posture above the threshold time >= 3s pitch >= 40 degrees or yaw >= 40 degrees
Smoking Warning	Smoking time >= 1s	Smoking time >= 2s	Smoking time >= 3s Cigarette needs to be lit
Calling Warning	Phone call time >= 1s	Phone call time >= 2s Phone position needs to be above the chin	Phone call time >= 3s Phone position needs to be above the chin; Mouth needs to open to speak
Seat Belt Detection	No seatbelt detected >= 5s	No seatbelt detected >= 10s	No seatbelt detected >= 15s
	Defaults to the left rudder and does not enable this calibration when there is only one face. For multiple faces, select the face based on the left/right drive calibration. The user can set it to the left or right rudder.		

4、 AI alarm settable speed range

Alarm Type	Minimum warning speed value	
	Default value	Adjustable range



Forward Collision Speed	>30	30-120
Lane Departure Speed	>60	30-120
Fatigue Driving Speed	>30	0-120
Distraction Warning Speed	>30	0-120
Smoking Warning Speed	>30	0-120
Calling Warning Speed	>30	0-120
Seat Belt Detection Speed	>30	0-120
The following alarms are not adjustable by default		
Pedestrian Collision	10-60	Non-adjustable
Front Vehicle Start-up	0	Non-adjustable
Face Pose Angle Calibration	>20	Non-adjustable

**Note:**

- 1、 The device is calibrated every time it is turned on. After the calibration is completed, the results will be used for the next start-up.
- 2、 During calibration, the speed must be greater than 20km/h, and the calibration time is about 1 minute. Otherwise, the calibration progress (0-100%) will be paused.
- 3、 No distraction warning before calibration (other alarms are not affected). After each power-on, calibration starts when the speed exceeds 20km/h and continues until completion. The distraction warning will be triggered after calibration, and the next power-on will require calibration again, using the previous calibration for the distraction warning until the new calibration is completed.

## 7 Platforms

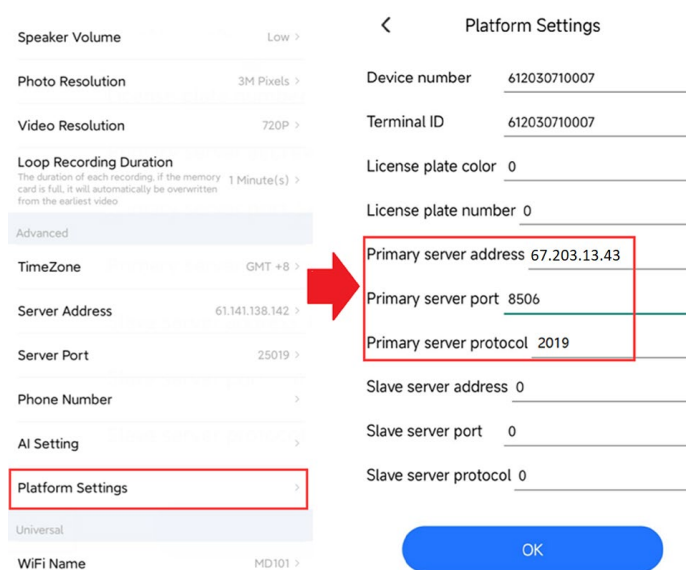
### 7.1 Platform Parameter Settings

After MD101 is connected, enter the APP setting interface - Platform setting - enter platform parameters (as shown below) - click "OK".

IP : **mdvr.trackingmate.com** OR **67.203.13.43**

Port: **8506**

Server protocol: **2019**

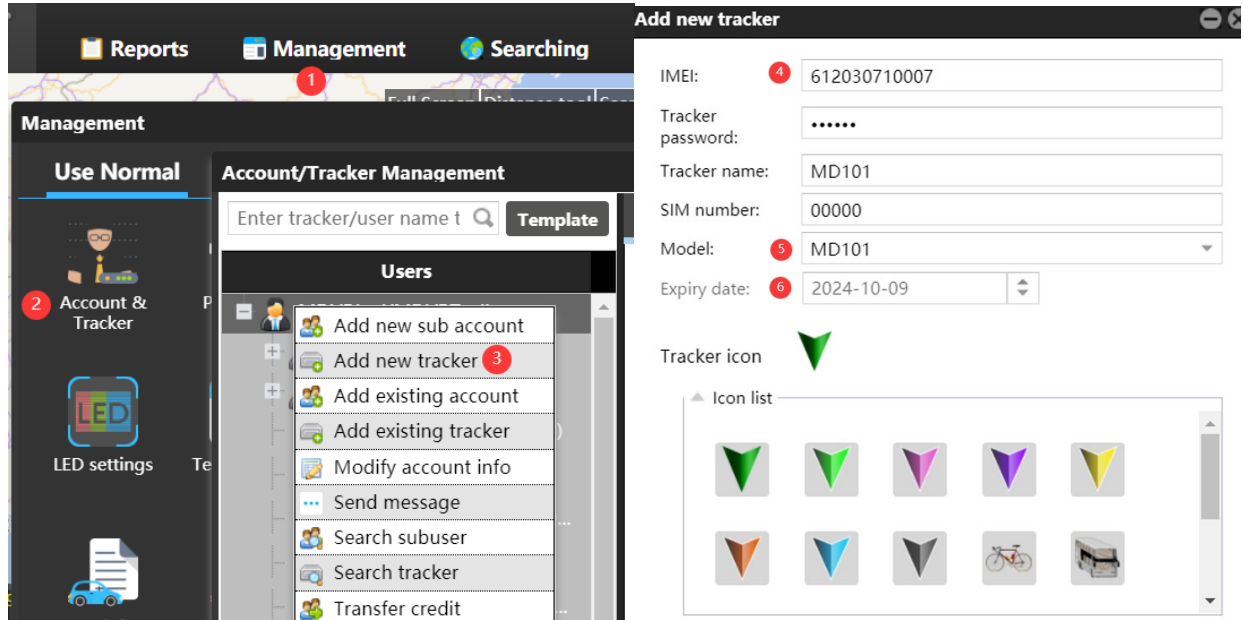


**Note:** The MD101 uses APN automatic recognition. If you need to set a special APN for a special SIM card, please contact us.

## 7.2 Platform Adding Devices

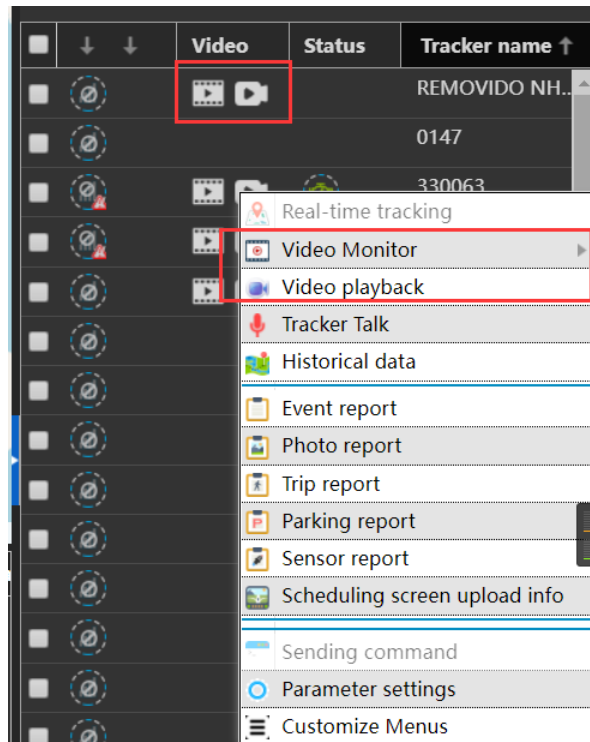
Login Meitrack MDVR platform <https://mdvr.trackingmate.com/> , according to the following screenshots ①②③④⑤⑥ steps to add equipment.

**Note:** 1.Login account \ password please contact us. 2. The IMEI of the device can be viewed through the APP or device label.



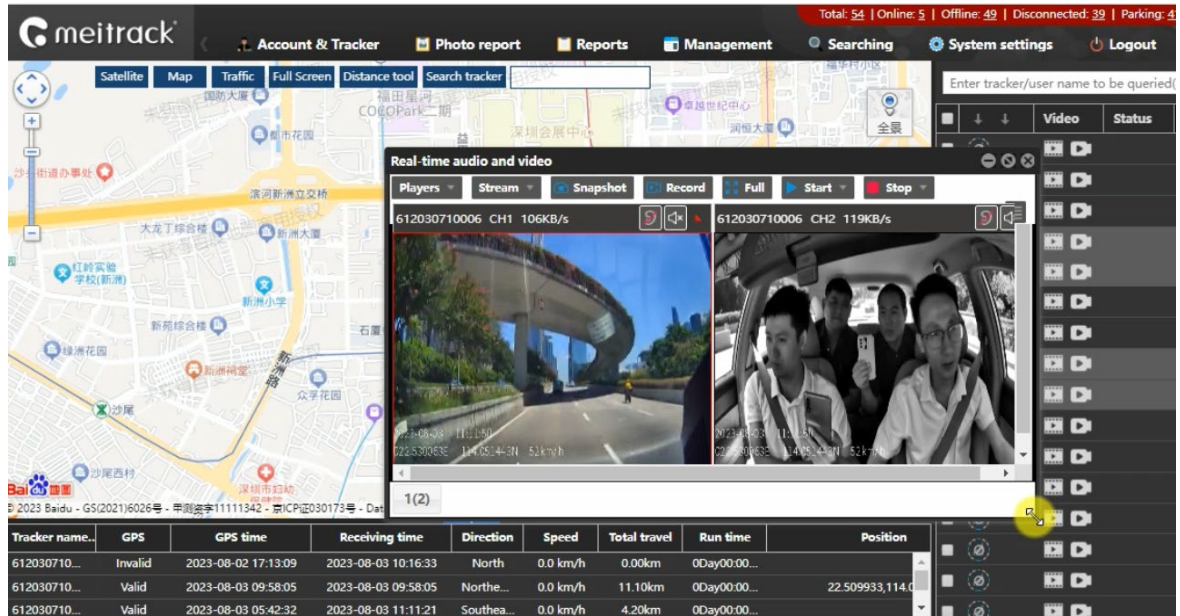
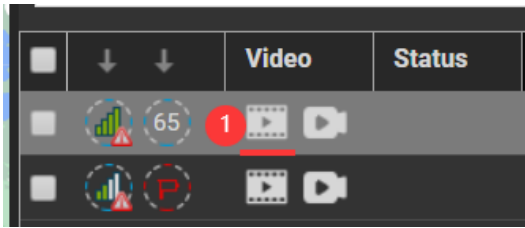
## 7.3 Platform Video Monitor and Video playback.

Right-click the device or click the icon to view the Video Monitor of the device and play back the Video Playback.



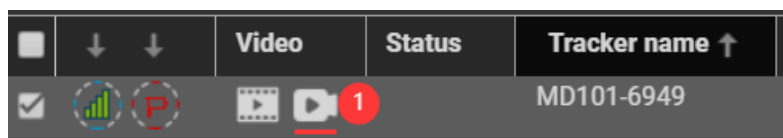
### 7.3.1 Video Monitor:

When the device is online, click the icon below to enter the real-time preview of the platform.

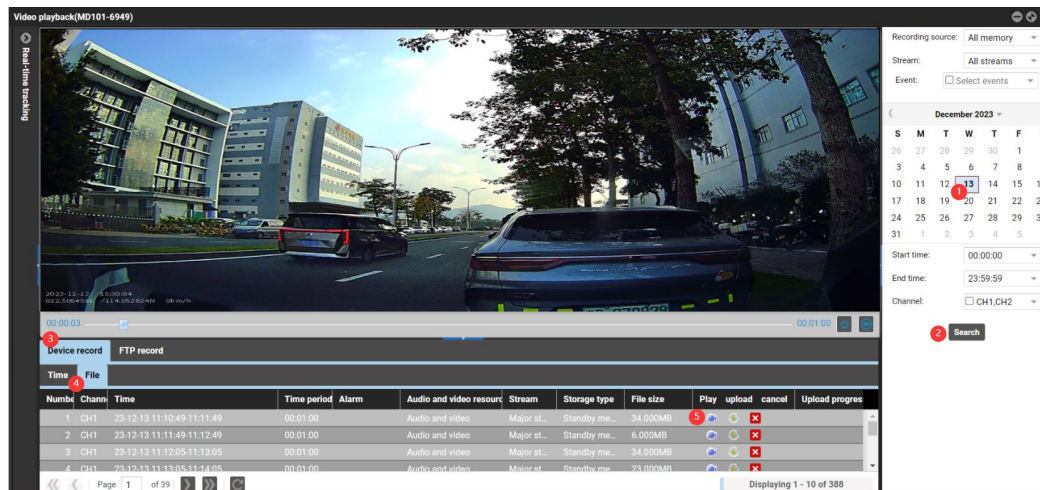


### 7.3.2 Video Playback

Click the following icon to enter the platform playback preview.



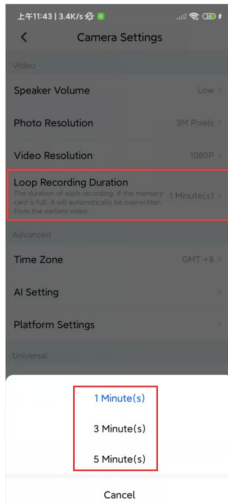
Get the playback video from the device. Please follow the steps below: ①②③④⑤



**Note:**

a: The device must be online to play back the video.

b: By default, one video is stored every minute. You can set the playback time through the APP. The maximum storage time is 5 minutes.



2, Set the video automatic upload FTP server, the video will be automatically uploaded to the FTP server.

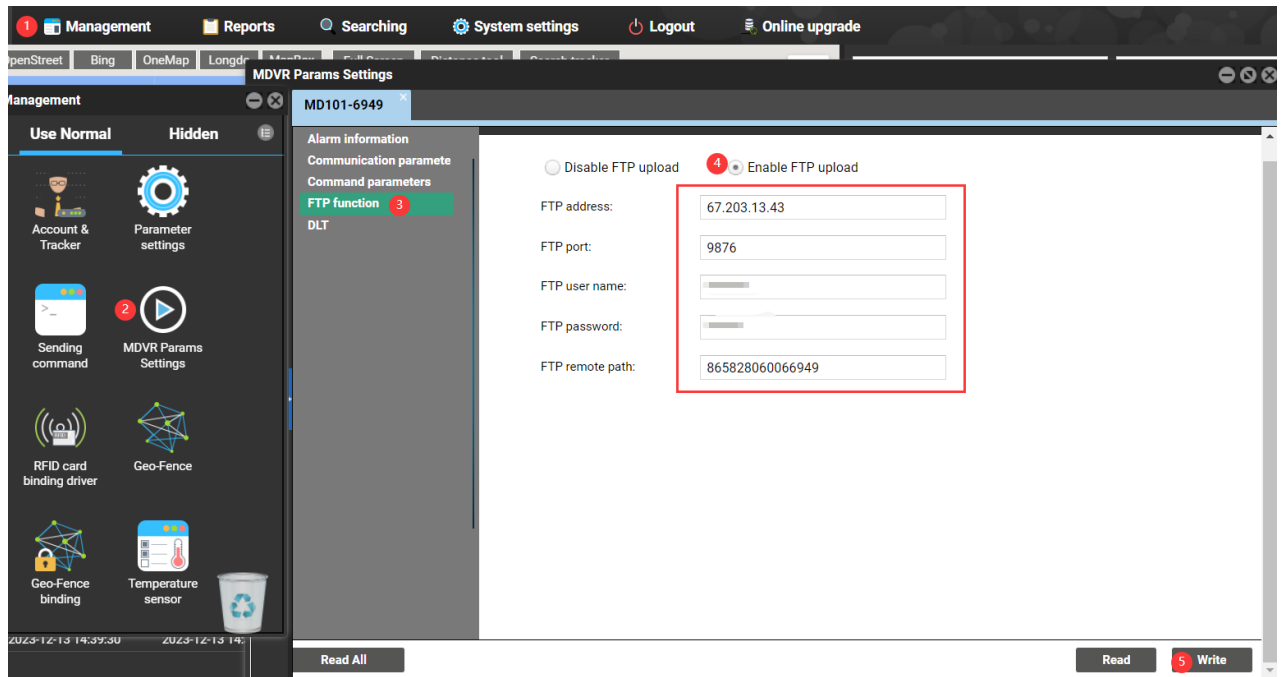


**Note:**

a: Follow the steps ① ② ③ ④ ⑤ to configure the FTP server. The default FTP address is 67.203.13.43. Default FTP port: 9876.

Default FTP path: IMEI of the device. The FTP account and password are the login account and password of the platform.

b: After the Settings are successful, all videos will be automatically uploaded to FTP. Please note SIM card traffic.



## 7.4 General alarm events

The MD101 supports the following general alarm events.

Ordinary Alarm Event	Remark
Overspeed Warning	Pre-warning for speeding.
Overspeed Alarm	Used for GPS speed detection to determine if the driver is speeding.
Fatigue Driving Warning	Warning for detecting continuous driving in ACC ON state.
Fatigue Driving Alarm	Triggers an alarm generated by excessive continuous driving time.
Exceeding Daily Driving Time	ACC ON time exceeds the preset time on the same day.
Overtime Parking	ACC ON status is detected, but the vehicle has not been driven for a long time.
SOS	Long press the emergency button for 2 seconds to report alarm information to the platform.
GPS Antenna cut	GPS antenna not detected.
TF Card Exception	TF card not detected.
Enter Geo-Fence	Set the entry fence range, alarms will be triggered when entering the fence.
Exit Geo-Fence	Set the exit fence range, alarms will be triggered when exiting the fence.

## 8 Introduction to AI Functions

The device uses machine vision technology based on video analytics to automatically identify road risks and unsafe driving behaviors of drivers. Any detected event will trigger an audible alarm to alert the driver in real time, and these events are also synchronized

to the platform.

**Note:** AI functions must be calibrated and configured according to the instructions. Otherwise, the accuracy of AI functions may be affected.

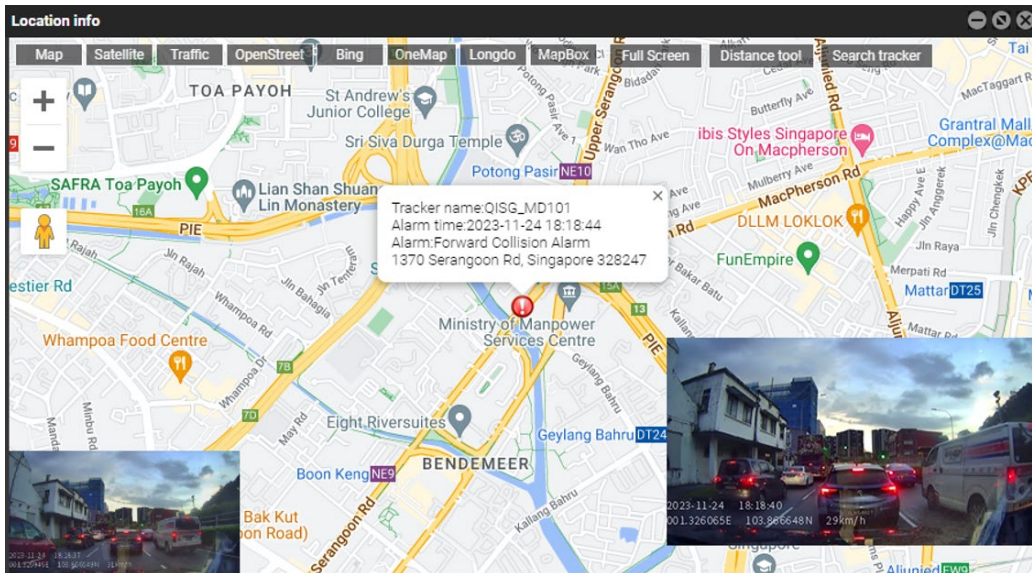
## 8.1 ADAS Functions

### 8.1.1 Forward Collision Warning



Real-time recognition of the relative speeds between the vehicle and the preceding vehicle while driving, reminding the driver in case of potential collisions to ensure sufficient emergency braking time.

**Voice:** Watch out for the car ahead

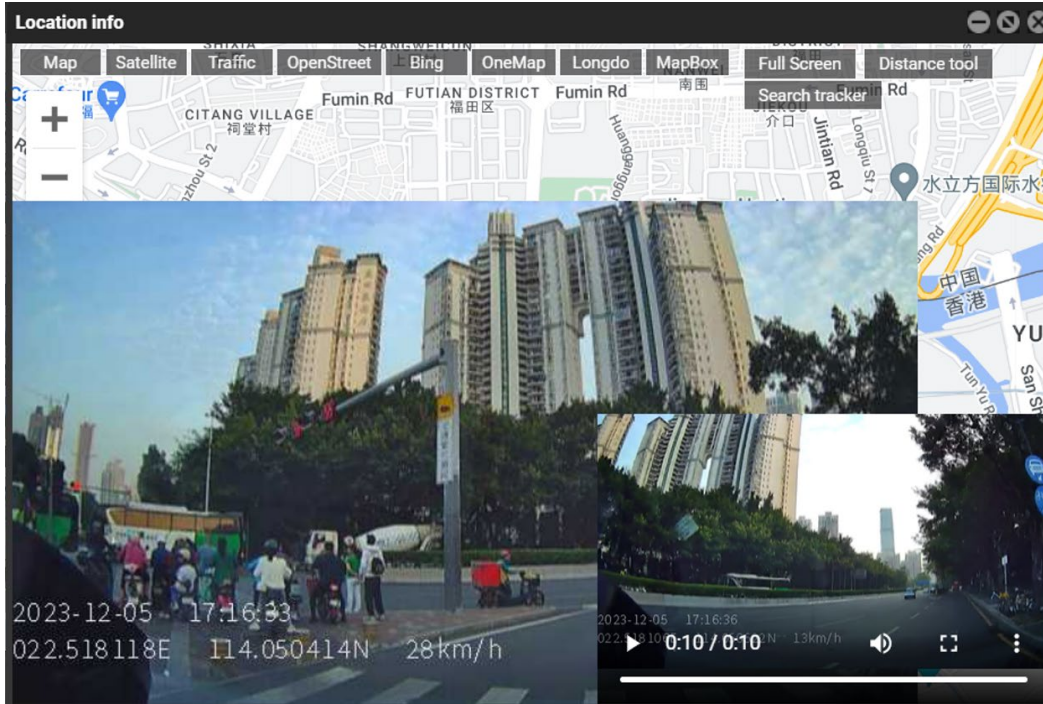


### 8.1.2 Pedestrian Collision Warning



During driving, it recognizes pedestrians, bicycles, and motorcycles in front of the vehicle, and alerts the driver if there is potential collision danger, ensuring sufficient emergency braking time.

**Voice:** Watch out for pedestrians.

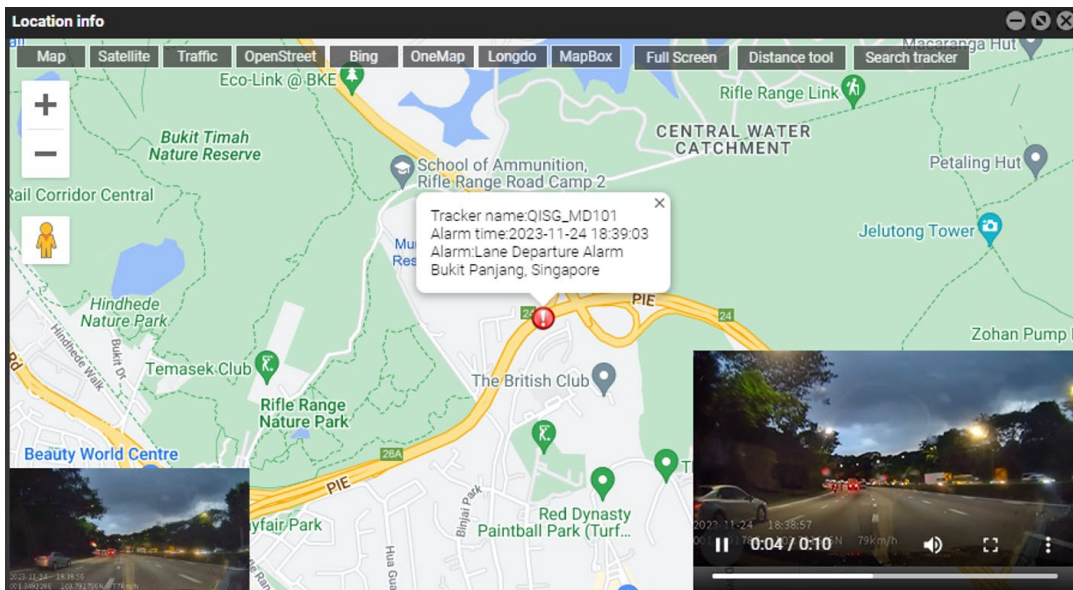


### 8.1.3 Lane Departure Warning



Identify lane departure behavior in real time during driving and alert the driver if there is unconscious lane departure behavior to ensure driving safety.

**Voice:** Lane departure.

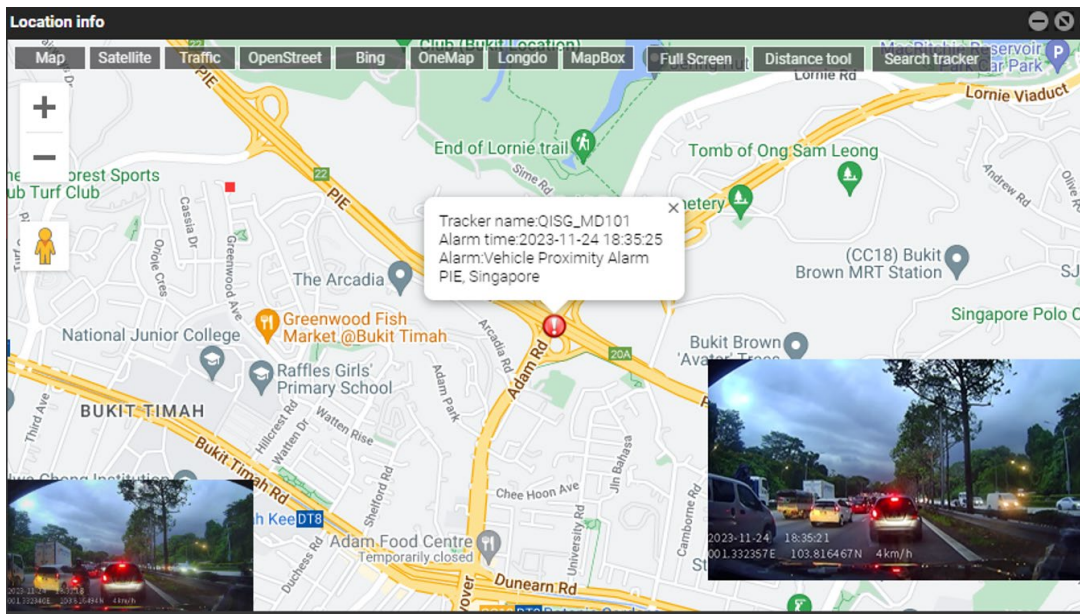


### 8.1.4 Distance Detection

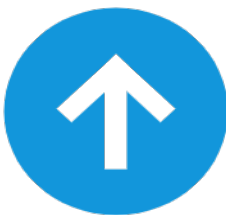


Recognize the relative speeds of the vehicle and the preceding vehicle when the vehicle is traveling at low speeds. Alert the driver to maintain a safe distance when there is a potential collision hazard.

**Voice:** Please keep distance



### 8.1.5 Vehicle Start-up Warning



When the vehicle is stationary and the vehicle in front begins to move, the driver is reminded that it is time to start.

**Voice:** Please star

**Note:** Parking start only voice, no event and video recording.

## 8.2 DMS Functions

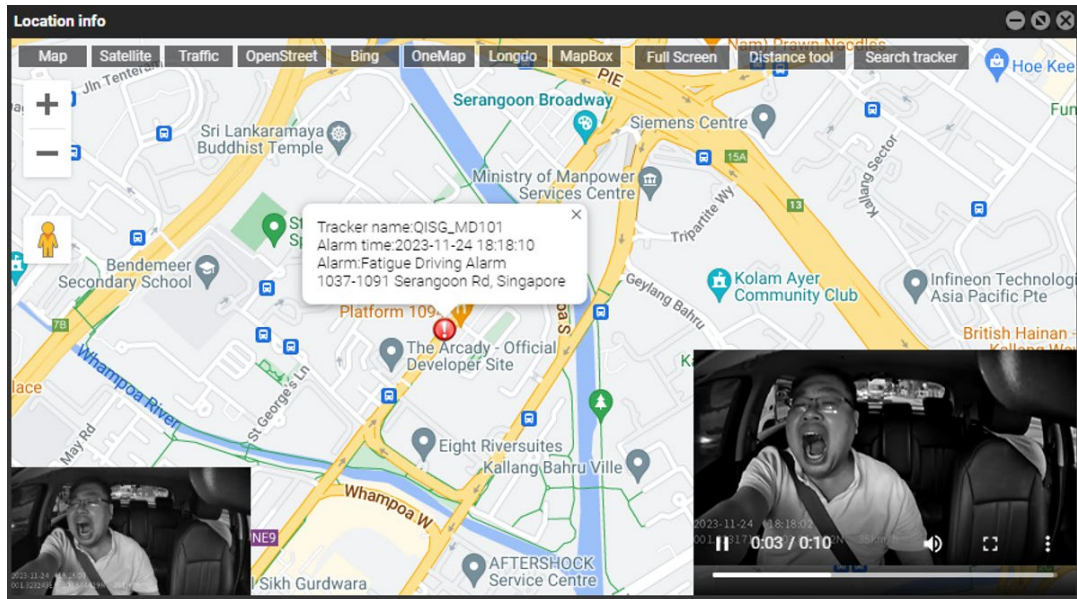
### 8.2.1 Fatigue Driving Warning



Identify the driver's fatigue state (closed eyes, yawning) and issue a warning to ensure driving safety.

**Voice:** Please take a break.



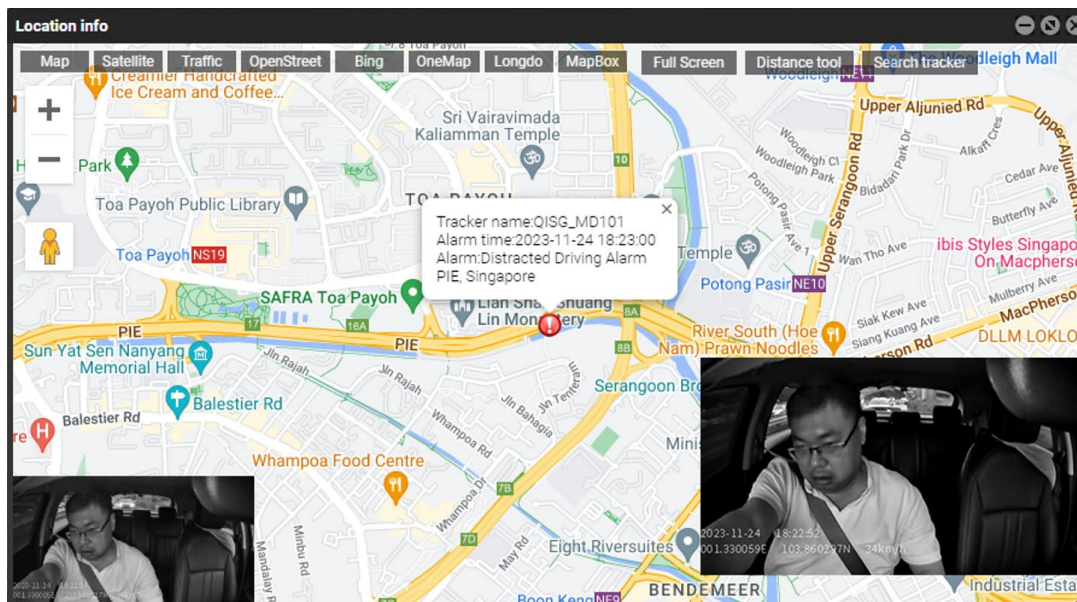


### 8.2.2 Distraction Warning



Recognize the driver's behavior of not looking at the road ahead during driving (looking left and right, looking down for something, etc.) and alert the police to ensure driving safety.

**Voice:** Please concentrate on driving.

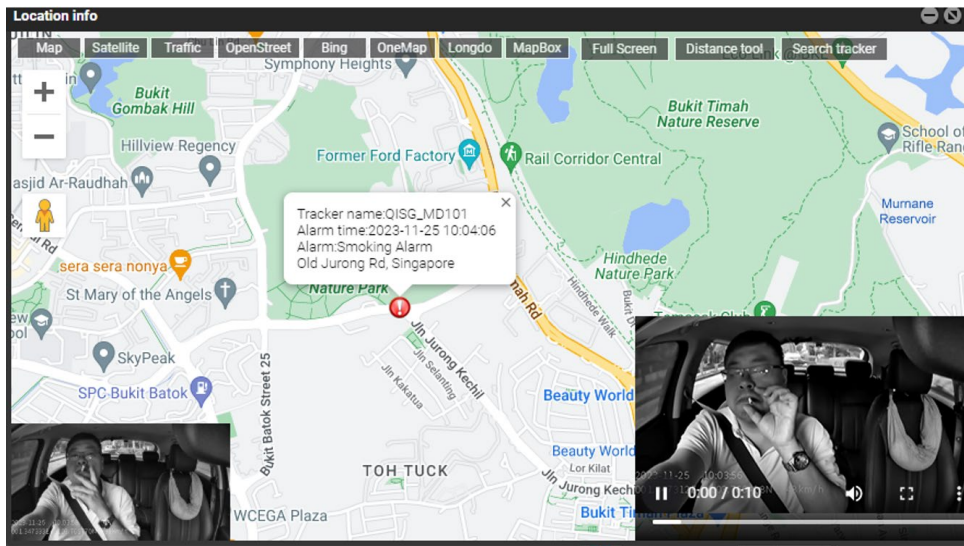


### 8.2.3 Smoking Alert



Recognize the driver's smoking behavior during driving and issue warnings to ensure driving safety.

**Voice:** Do not smoke

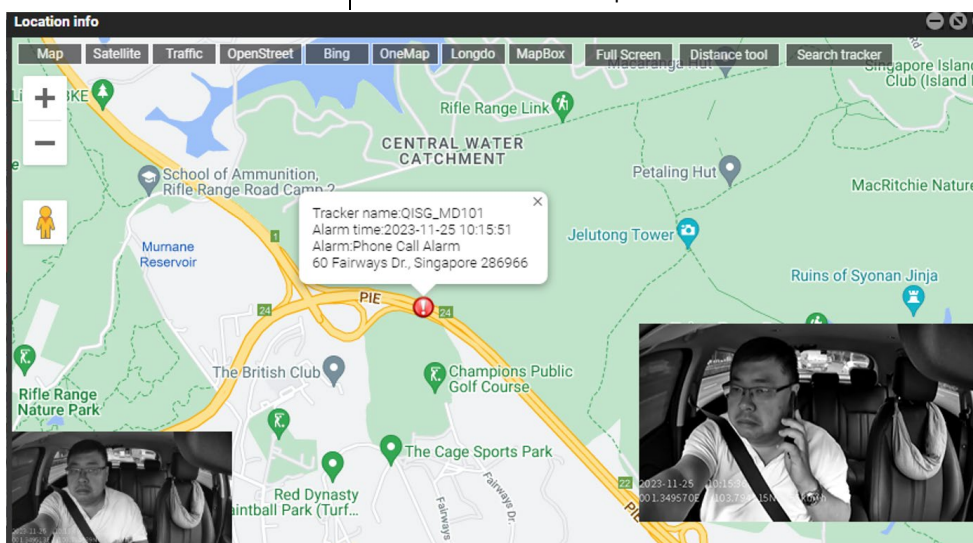


### 8.2.4 Phone Call Alert



Recognize the driver's behavior of making phone calls while driving and issue warnings to ensure driving safety.

**Voice:** Do not use mobile phones.

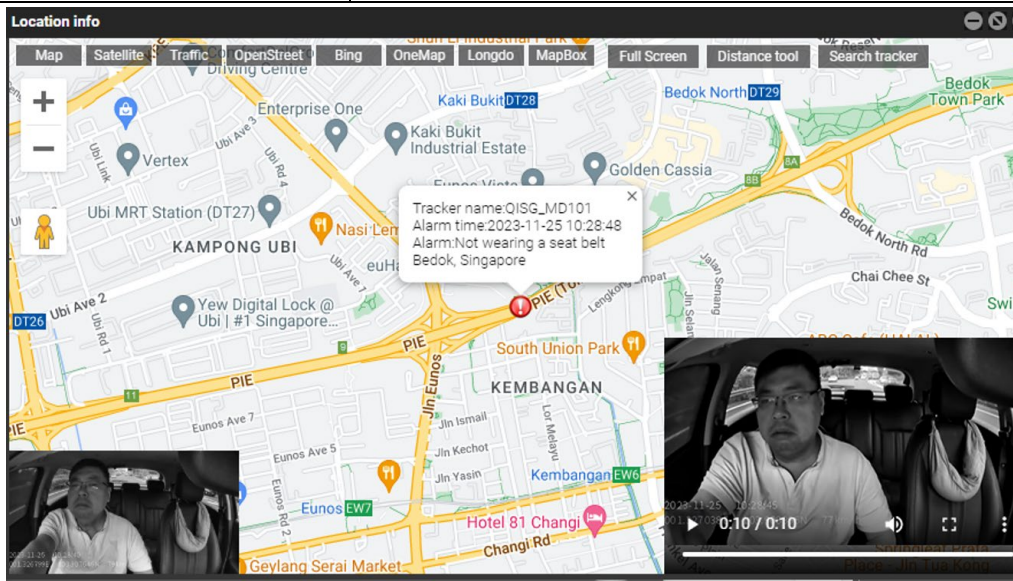


### 8.2.5 Seat Belt Detection



The device recognizes seatbelt status and warns the driver when driving without a seatbelt to ensure safe driving.

**Voice:** Please fasten your seat belt.

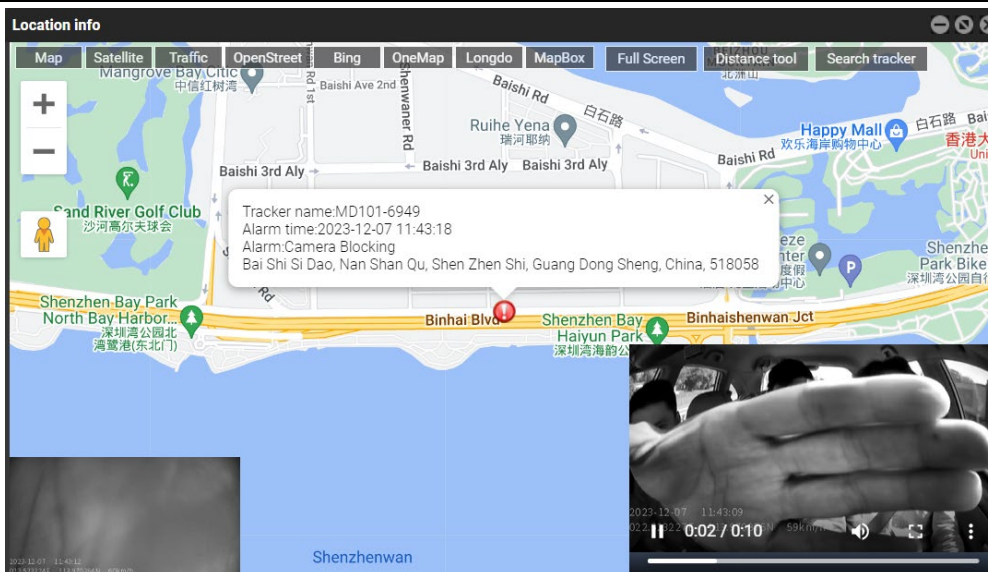


### 8.2.6 Camera Covered



The DMS will send a voice alert when it detects occlusion.

**Voice:** Please fasten your seat belt.

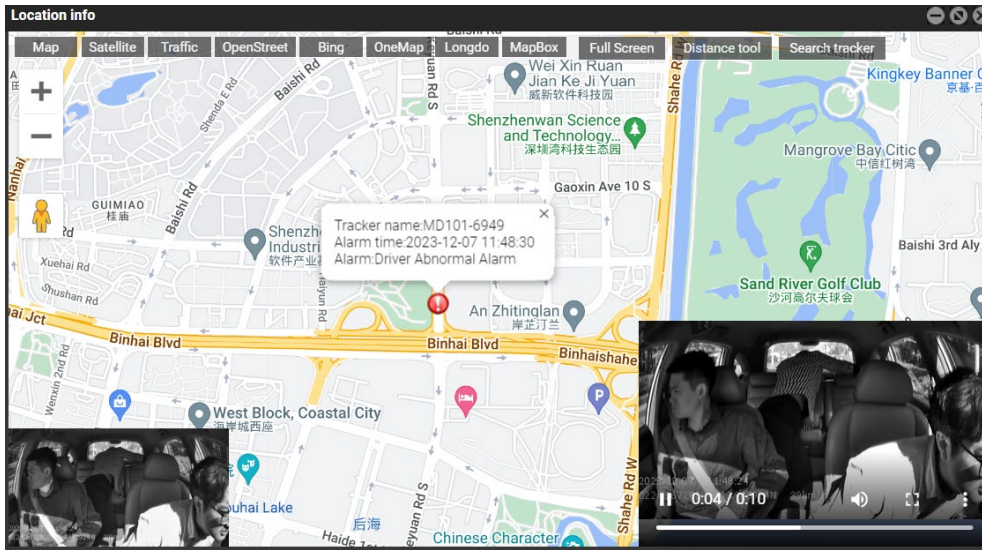


### 8. 2. 7 Driver Absence Detected.



Recognize the driver leaving and issue a voice alert.

**Voice: Driver abnormally**



## 9 Simple troubleshooting

problem	answer
Invalid recording	Please use a FAT32 memory card with a read and write speed of $\geq$ C10 level.
Invalid loop recording	Please check if the storage card has enough space for recording. If there is not enough space, please format the storage card.
The video is blurry	Please remove the protective film from the camera lens and clean the lens and windshield.
There is no audio in the recording	Please confirm that you have opened recording in the app.
Equipment temperature too high	The AI function of the device requires a lot of computation during operation, so it is normal to cause the body to heat up, especially in the area of the heat sink. Please do not touch the heat sink to avoid burns.
The files on the storage card cannot be displayed on the computer	Please switch to a different video player to play. If it still doesn't work, the storage card may be damaged. Please try formatting or replacing it with a new one.

Other

If the above fault cannot be resolved, please restore all settings to the factory settings or contact local technical support for further assistance.

**If you have any other questions, please send an email to our email address [info@meitrack.com](mailto:info@meitrack.com) We will wholeheartedly serve you.**