MEITRACK® AI Dashcam

MD300 User Guide

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Document Update Record

Version	Date	Modification
1.0	2025-03-17	Initial Draft.
1.1	2025-07-23	Modify the N1 version and add a 1-wire line. Update the settings of related functions. Update layout.
1.2	2026-02-28	Add facial recognition functionality. Add instructions for installing cameras and displays.
1.3	2026-03-19	Add installation physical image. Add precautions for connecting the power interface.

Usage Precautions

Installation Environment

1. To ensure stable recording images, please avoid adhering to low-adhesion materials such as velvet as much as possible, and ensure that the device base is securely attached with 3M adhesive during installation;

2. This device should be installed horizontally. When installing the device, please pay attention to waterproofing, moisture-proofing, and lightning protection, while keeping the vehicle stationary to prevent the device from falling and being damaged.

3. To ensure the safe use of the device, the main unit, camera, wiring, and other accessories should be placed in locations that are not easily accessible to passengers and the driver.

Avoid electric shock and fire.

1. This device operates on a DC power supply of 11.4-40V. When wiring, please pay attention to the positive and negative terminals to avoid short circuits.

2. Before installation, please disconnect the power supply of this device. Wrap each unused I/O wire separately with tape to prevent contact with other wires and the output power line, which could lead to damage to the device.

3. When connecting other external devices, please turn off the power of this device;

4. Remember not to touch the power and this device with wet hands;

5. Do not let liquids spill on the device to avoid internal short circuits or fire;

6. Do not place other devices directly on top of this camera;

7. Non-professionals should not open the casing themselves to avoid damage and electric shock;

Transportation and Handling

1. To ensure that the device is not accidentally damaged during transportation, please handle it with care when moving or transporting the device, preferably using the original packaging materials and boxes;

2. It is strictly prohibited to move this device or replace components while powered on, as it may damage the device;

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1 Product Introduction

The MD300 is a second-generation AI Dashcam solution that uses a high-performance AI processing chip; This product is a dual-system (dual communication channel), highly stable HD vehicle recording device, supporting up to 4 channels of H.264/H.265 video compression/decompression, 4G, GPS, WiFi, Bluetooth, wide voltage, high voltage protection, and other technologies, making it a core product of the new generation wireless vehicle video monitoring solution.

Widely used in various mobile video surveillance fields such as buses, long-distance coaches, taxis, logistics vehicles, special vehicles (such as cash transport vehicles), private cars, and forklifts.

Product Features:

Built-in 1080p resolution DMS camera, 2K resolution ADAS camera;

Embedded high-performance AI video processing chip (optional AI video algorithms: ADAS, DMS, face recognition);

It can ensure that the video before a power outage is stored and will not be lost. After the external power supply is cut off, the GPS part of the device will continue to operate for a period of time.

Supports Micro SD Card, with a maximum capacity of 2*1TB, equipped with a Micro SD Card slot;

Expandable to support 2 channels of 720P cameras;

Uses industrial-grade power chips, supporting 11.4~40V power input, suitable for harsh environments;

Supports dual working modes for local recording and network transmission;

Built-in sensors for detecting driver behavior status;

Utilizes a self-developed data writing mechanism to effectively protect recording data and prevent data loss due to abnormal power outages.

2 Specifications and Parameters

Power Supply	
Rated Voltage	Input voltage 11.4-40V. Rated 12V/2A power supply box is external, with N1 and N2 versions.
Power Consumption	Main unit audio and video on with built-in 2-channel camera approximately 6W; External 2-channel cameras, approximately 12.5W during the day (13W with display connected), approximately 14W at night (14.5W with display connected).

AI	
AI Video (optional)	ADAS、DMS、face recognition.

Storage Medium	
Micro SD Card	2*TF, maximum capacity for a single Micro SD Card: 1 TB, Class 10 and above, FAT32 format.

System Structure	
System Operation	Dual system operation, dual communication channel (to prevent data loss).

Audio and Video	
VVideo Input	Supports up to four channels (built-in 2K ADAS and 1080P DMS + two external 720P cameras).

	Note: AV3 supports audio input, AV4 does not support audio input. ADAS supports HDR (High Dynamic Range).
Video Output	1 channel CVBS aviation plug output (level: 1.0Vp-p, impedance: 75Ω).
Video Compression Standard	H.264/H.265 configurable; default H.265.
Screen Display	Supports 4-screen display.
Audio Input	Built-in Mic. AV3 camera Mic input, requires the camera to support audio.
Audio output	Built-in speaker (MAX: 8Ω 1.5W); 1 external display screen with built-in speaker output.
Audio compression	G.726/G.711a/AAC.
Recording retrieval and playback	Can be retrieved and played back by channel, recording type, stream type, and time.
Recording mode	Normal recording and alarm recording, audio and video recorded synchronously.

Frequency band	
MD300-EU (EMEA/Southeast Asia)	GSM: 900/1800MHZ. WCDMA: B1/B5/B8. LTE-FDD: B1/B3/B5/B7/B8/B20/B28. LTE-TDD: B38/B40/B41.
MD300-AU (Latin America/Australia/New Zealand)	GSM:850/900/1800/1900MHZ. WCDMA: B1/B2/B4/B5/B8. LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66. LTE TDD:B40.
MD300-A (North America)	LTE FDD: B2/B4/B12. WCDMA: B2/B4/B5.
MD300-J (Japan)	LTE FDD: B1/B3/B8/B18/B19/B26. LTE TDD:B41. WCDMA: B1/B6/B8/B19.
WiFi\Bluetooth\GNSS	
WiFi	IEEE 802.11 b/g/n/ax, frequency 2.4G, supports AP/STA mode.
Bluetooth	Supports Bluetooth 5.1; Supports master-slave dual mode, can read Bluetooth accessories, and can configure parameters through the APP.
Positioning Mode	GPS/GPS_BEIDOU/GPS_GLONASS (Optional RTK/L1 + L5/DR positioning mode).
Positioning Accuracy	2.5m
Tracking Sensitivity	-162dBm
GNSS Antenna	Single-frequency L1 antenna; supports antenna insertion/removal/short circuit detection (Optional L1 + L5 + DR Antenna).

Others	
Operating Temperature	-20~70 degrees
SPI memory	256MB
Sensor	Built-in 3-axis sensor(Optional 6-axis sensor).

I/O port	**N1 version:** SOS*1 + ACC*1 + IN/AD/OUT*2 (total of 2 multiplexed) + RS232*1 + CAN1*1 + 5VOUT*1 + DCIN*1 + GND*1. **N2 version: N1 version** + IN/AD/OUT*4 (total of 6 multiplexed) + OUT*1 (independent) + CAN2*2 + GND*1 + 12VOUT*1 + RS485*1.
size	117*70*120mm (including bracket)
Weight	310g (excluding accessories)

Certification
CE certified
Protocol

Meitrack Protocol (CCE) + RTMP (Audio and Video Transmission Protocol, also compatible with Meitrack's private audio and video transmission protocol)

3 Optional

3.1 Standard Configuration

MD300 Main Unit

Power Box

CD Download Guide Card

Bracket

Screws and Wrench

GPS Antenna

3.2 Optional

3.2.1 MDVR Camera Optional

AI Camera		
DMS Telescopic Camera (ACP506)	DMS Side-mounted Camera (ACP505)	DMS Camera(ACP503)
		
Waterproof Standard Camera (Outdoor)		
Side-mounted Waterproof Camera 720p （ACA301）	Waterproof Square Camera 720p （ACA501）	
		
Non-waterproof Standard Camera (Indoor)		
Metal Small Conch Camera 720p(ACA303)		
		
Camera Extension Cable (Default 3M or 5M)	**CH3\CH4 Camera and video output connection cables.（2M）**	
		

Note:

1. The standard camera cable length is generally 50cm; please adapt the corresponding camera extension cable.
2. The third and fourth cameras support a maximum resolution of 720P.
3. When the device needs to connect to CH3, CH4 and the display screen, an extended video cable must be used.

3.2.2 Other optional accessories

Optional Bluetooth external accessory	
Bluetooth temperature and humidity sensor (AST101)	Bluetooth beaco (AB402)
	

Other optional external accessories			
A53 Fuel sensor (voltage AD)	A52 digital temperature sensor	Relay	iButton
			
Ultrasonic Fuel Sensor		7 inch CVBS display	
 			
RFID reader	UPS Power Supply (APU101)	Memory card	
			

4 LED Indicator Light

Identifier	Indication Meaning	Color	Status	Description
	Power Indicator	Red	Always On	Device Power Indicator
			Always Off	Device Power Cut
	Video Status Indicator	Red	Always On	All channels are not connected to a camera
			Flashing (flashes once every 5 seconds)	There is one channel without a camera connected

			Flashing (flashes twice every 5 seconds)	There are two channels without cameras connected
			Flashing (flashes three times every 5 seconds)	There are three channels without cameras connected
			Always Off	All four channels have cameras connected
	Positioning indication	Blue	Always On	Button triggered
			Fast flashing (flashes once every 0.1 seconds)	GPS initialization
			Flashing (on for 0.1 seconds, off for 2.9 seconds)	Positioning successful
			Slow flashing (on for 1 second every 2 seconds)	Not positioned
	4G network status indication	Green	Fast flashing (flashes once every 0.1 seconds)	Module is initializing
			Blinking (On 0.1s Off 2.9s)	4G network is normal
			Always Off	Not registered on the network
	WIFI indicator light	Green	Fast flashing (flashes once every 0.1 seconds)	Using WIFI network
			Blinking (On 0.1s Off 4.9s)	WIFI module detected, but not using WIFI network
			Always Off	No WiFi module
	Recording status indicator	Green	Flashing (once every 0.1s)	Storage disk detected normally, can record normally
			Blinking (On 0.1s Off 4.9s)	Storage disk detected, but no recording
			Always Off	No storage disk detected

5 I/O wire and interface definition

Serial Number	Wire color		Definition	Description
	Both N1 and N2 support the following I/O			
	N1			
1	Red		DC+	DC power input positive terminal, with a 5A fuse; connect to the car and battery positive terminal.
2	Black & White		DC-	DC power negative terminal input;
3	White		ACC	ACC input, high-level input, triggers above 4.5V, maximum operating voltage 45VDC; used to connect to the car ACC to check the vehicle ignition status;
4	Gray		SOS/IN1	SOS wire, negative trigger, maximum operating voltage 45VDC;
5	White & Red		IN3/OUT1/AD1	Digital input 3, connects to the left turn signal, default high trigger. Can also be configured as a positive trigger or AD1

				(0~30V) analog input or OUTPUT1, maximum operating voltage 45VDC, OUT maximum current 0.3A;
6	White & Orange		IN4/OUT2/AD2	Digital Input 4, connected to the right turn signal, default high trigger. Can also be configured as positive trigger or AD2 (0~30V) analog input or OUTPUT2, maximum operating voltage 45VDC, maximum output current 0.3A.
7	Brown & White		RS232_TX	RS232 input (MCU communication), RS232 output of external device;
8	Brown		RX232_RX	RS232 output (MCU communication), RS232 input of external device;
9	Orange		CAN_L1	CAN Bus low input, ISO11898 protocol, maximum 5Mbps;
10	Orange & White		CAN_H1	CAN Bus high input, ISO11898 protocol, maximum 5Mbps;
11	Pink & Red		5V_OUT	5VDC output, maximum 0.5A current output;
12	Black		GND	Ground wire, external accessory ground wire;
13	Green		1-WIRE	Used for connecting temperature sensors, iButton, and other 1-Wire accessories;
	N2 = N1 + The following I/O ports.			
14	Yellow		OUT3	Output Control 3 defaults to low-level trigger (0V); when inactive, it is an open-collector output (OC). The voltage that can be tolerated when the output is open-collector (inactive) is: maximum 40 volts, maximum current 400 milliamps. Can connect to an external relay for remote disconnection of the vehicle's fuel line/engine power supply, etc.
15	White & Yellow		IN5/OUT4/AD3	Digital Input 5, defaults to low negative trigger. Can also be configured as a positive trigger or AD3 (0~30V) analog input or OUTPUT4, maximum operating voltage 45VDC, maximum output current 0.3A;
16	White & Green		IN6/OUT5/AD4	Digital Input 6, default high trigger. It can also be configured as a positive trigger or AD4 (0~30V) analog input or OUTPUT5, with a maximum operating voltage of 45VDC and a maximum output current of 0.3A.
17	White & Blue		IN7/OUT6/AD5	Digital Input 7, default high trigger. It can also be configured as a positive trigger or AD5 (0~30V) analog input or OUTPUT6, with a maximum operating voltage of 45VDC and a maximum output current of 0.3A.
18	White & Purple		IN8/OUT7/AD6	Digital Input 8, default high trigger. It can also be configured as a positive trigger or AD6 (0~30V) analog input or OUTPUT7, with a maximum operating voltage of

				45VDC and a maximum output current of 0.3A.
19	Purple		RS485_A	RS485-A interface, supports a maximum of 20 Mbps
20	Purple & White		RS485_B	RS485-B interface, supports a maximum of 20 Mbps
21	Orange & Yellow		CAN_H2	CAN Bus high input, ISO11898 protocol, maximum 5 Mbps
22	Orange & Green		CAN_L2	CAN Bus low input, ISO11898 protocol, maximum 5 Mbps
23	Pink & Orange		12V_OUT	12VDC output, maximum 1A current output
24	Black		GND	Ground wire, external accessory ground wire;

6 Interface Definition

(The illustration is a temporary representation and will be updated later)

Serial Number	Name	Description
1	Type-C Port	Can be connected to a computer using a Type-C data cable
2	SIM Card Slot	Supports Nano SIM*1
3	Micro SD Card Slot-1	Standard Micro SD Card Slot, maximum capacity supports 1T
4	Micro SD Card Slot-2	Standard Micro SD Card Slot, maximum capacity supports 1T
5	WIFI Button	Temporarily turn On/Off the device's WIFI hotspot
6	Interface Cover Plate	Integrated cover plate on the device body, can be secured with screws, providing protection and dust resistance
7	LED Indicator Light	Device Status LED Indicator
8	DMS Camera	1080P DMS Camera Ntsc
9	Audio and Video Interface	Can connect audio and video conversion cables to expand 2 video inputs and 1 video output - AV_IN*2, AV_OUT*1
10	Speaker	For the network intercom function, two-way communication function, and the

		voice announcement for AI alarm.
11	MIC	For two-way communication or monitoring.
12	Reboot button	After a short press, the device will restart.

(The illustration is a temporary representation and will be updated later)

Serial Number	Name	Description
1	ADAS Camera	2K Resolution ADAS Camera Pal
2	Video interface	Video connection cable interface. An AHD/CVBS display can be connected to the extension cable, and 2 720P AHD cameras can also be connected.
3	GPS Antenna Interface	SMA Male Connector, connects to GPS antenna
4	Main Cable	12-pin + 4-pin connector, connect to N1 or N2 power box.
5	bracket	A bracket with high - temperature - resistant 3M adhesive, which is used for installation and fixation on the windshield.

7 Trigger AI alarm information

7.1 Introduction to AI alarm function

This device uses video analysis-based machine vision technology to automatically identify road risks and unsafe driving behaviors of the driver. Any detected event will trigger a sound alarm to alert the driver in real-time, and these events will also be synchronized to the platform.

Note: The AI function must be calibrated and configured according to the installation operation instructions; otherwise, the accuracy of the AI function may be affected.

7.2 AI Alarm and Trigger Conditions

AI Type	Alarm Type	English Prompt Sound
ADAS	Left Lane Departure Warning	Watch out lane departure
	Right Lane Departure Warning	Watch out lane departure
	Front Collision Warning	Watch out for the front vehicle

	Pedestrian Collision Warning	Watch out for pedesitrians
	Too Close Distance Warning	Keep a safe distance
DMS	Smoking	No smoking
	Calling	No phone call
	Distraction Warning	Please face forward
	Fatigue	Attention, drowsiness detected
	Yawning	Please stay awake
	Driver Out of Position	Please return to the seat
	Seat Belt Not Fastened	Please fasten your seat belt
	Infrared Blocked Lens	Do not block the DMS IR
	DMS Camera Covered	Do not block the DMS lens

Trigger Conditions and Sensitivity

Alarm Type	Trigger Speed (Default)	Sensitivity		
		High	Medium	Low
Left lane departure	＞50	Sensitivity: 0.3	Sensitivity: -0.3	Sensitivity: -0.7
Right lane departure	＞50	Sensitivity: 0.3	Sensitivity: -0.3	Sensitivity: -0.7
Forward Collision Warning	＞30	TTC = 4.6s	TTC = 3.6s	TTC = 2.7s
Pedestrian Collision Warning	＞30	TTD = 3.0s	TTD = 2.5s	TTD = 2.0s
Distance Detection	＞30	TTD = 2.0s	TTD = 1.6s	TTD = 1.2s
Smoking	＞10	Alarm Duration: 2s	Alarm Duration: 3s	Alarm Duration: 4s
Calling	＞10	Alarm Duration: 2s	Alarm Duration: 3s	Alarm Duration: 4s
Distraction Warning	＞10	Alarm Duration: 2s	Alarm Duration: 3s	Alarm Duration: 4s
Drowsiness	＞10	Alarm Duration: 2s	Alarm Duration: 3s	Alarm Duration: 4s
Yawning	＞10	Alarm trigger duration: 1.5s	Alarm Duration: 2s	Alarm Duration: 3s
Driver Absence Detected	＞10	Alarm Duration: 2s	Alarm trigger duration: 5s	Alarm trigger duration: 8s
Seat Belt Not Fastened	＞10	Alarm Duration: 2s	Alarm trigger duration: 5s	Alarm trigger duration: 8s
IR block	＞10	Alarm Duration: 2s	Alarm Duration: 4s	Alarm trigger duration: 6s
DMS Camera Covered	＞10	Alarm trigger duration: 5s	Alarm trigger duration: 10s	Alarm trigger duration: 15s

7.3 ADAS Function

7.3.1 Left Lane Departure Alarm

Real-time identification of lane departure behavior during driving. If there is unintentional lane departure behavior, the driver will be reminded to ensure driving safety.

Note: The left and right turn signal wires must be connected in the vehicle, and the turn signal must be activated before turning; otherwise, turning may trigger a false lane departure alarm.

7.3.2 Lane Departure Warning

Real-time identification of lane departure behavior during driving. If there is unintentional lane departure behavior, the driver will be reminded to ensure driving safety.

Note: The left and right turn signal wires must be connected in the vehicle, and the turn signal must be activated before turning; otherwise, turning may trigger a false lane departure alarm.

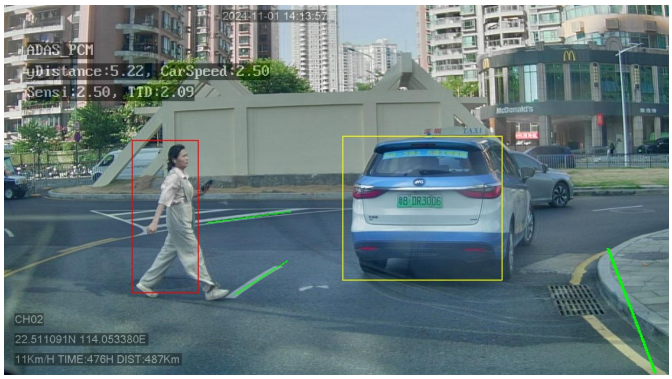
7.3.3 Front Collision Warning

Real-time identification of the relative speed between this vehicle and the vehicle in front during driving, alerting the driver when a collision is likely to occur, ensuring sufficient emergency braking time.

7.3.4 Pedestrian Collision Warning

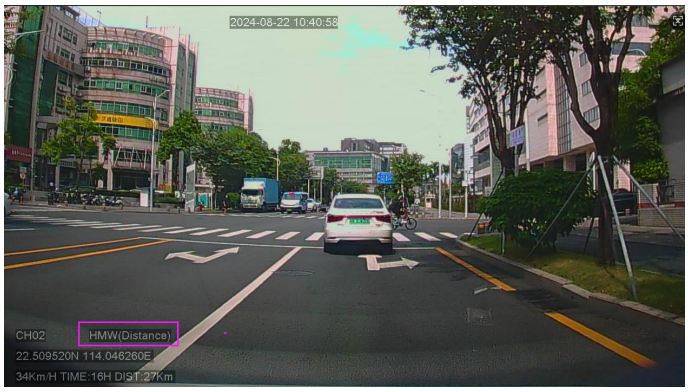
During driving, real-time identification of pedestrians, bicycles, and motorcycles in front of the vehicle, alerting the driver if there

is a potential collision risk, ensuring sufficient emergency braking time.



7.3.5 Distance Detection

When the vehicle is moving at low speed, identifying the relative speed between this vehicle and the vehicle in front. When there is a potential collision risk, alerting the driver to maintain a safe distance.



7.4 DMS Function

7.4.1 Smoking

Identifies the driver's smoking behavior during driving and issues a warning to ensure driving safety.

Note: Smoking alarms may frequently result in false positives. When the driver makes movements similar to smoking, such as resting their chin on their hand or eating and drinking, false alarms may occur. You can collect false alarm videos and provide them to us to optimize the AI algorithm.

7.4.2 Calling

Identifies the driver's mobile phone call behavior while driving and issues a warning to ensure driving safety.

7.4.3 Distraction Warning

Identifies the driver's behavior of not looking at the road ahead while driving (such as looking around or bending down to find something) and issues an alarm to ensure driving safety.

7.4.4 Fatigue Driving Alarm (Close Eyes)

Identifies the driver's fatigue status (close eyes) and issues a warning to ensure driving safety.

7.4.5 Yawning

Identifies the driver's fatigue status (yawning) and issues a warning to ensure driving safety.

7.4.6 Driver Absence Detected

Detects that the driver may be leaving and issues a voice reminder.

7.4.7 Seat Belt Detection

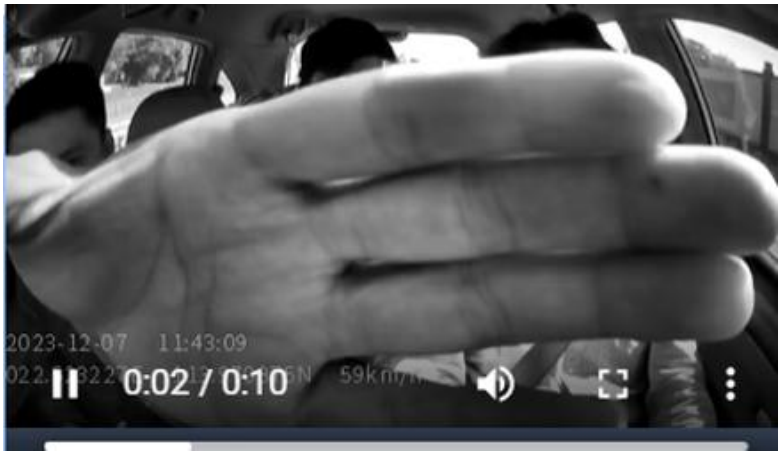
The device identifies the seat belt status and issues a warning to the driver when driving without wearing a seat belt to ensure driving safety.

7.4.8 IR block

The device detects that the driver is wearing sunglasses, which prevents the detection of the driver's closed eyes.

7.4.9 Covered

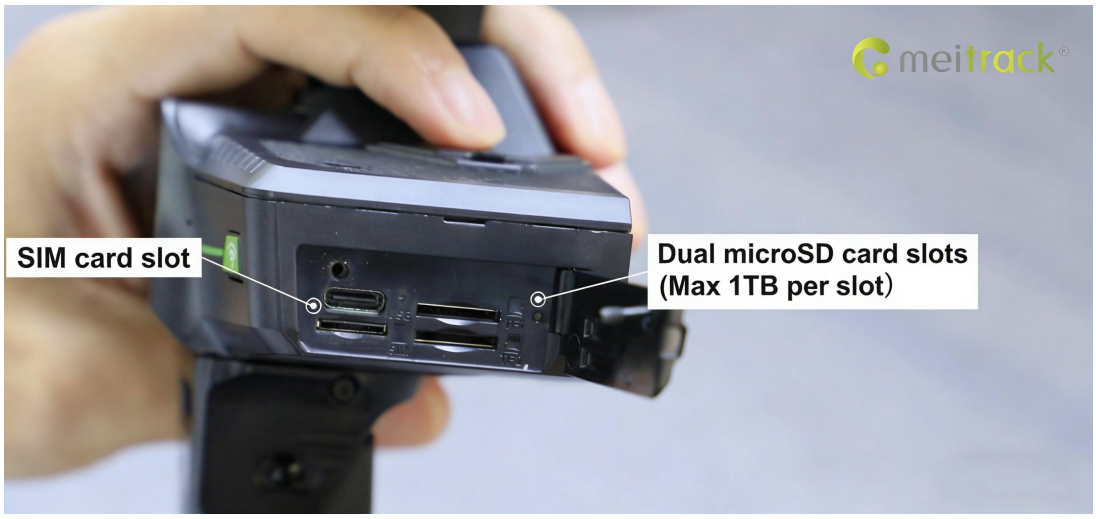
The device has detected that the DMS camera is covered and will issue a voice warning to the driver.



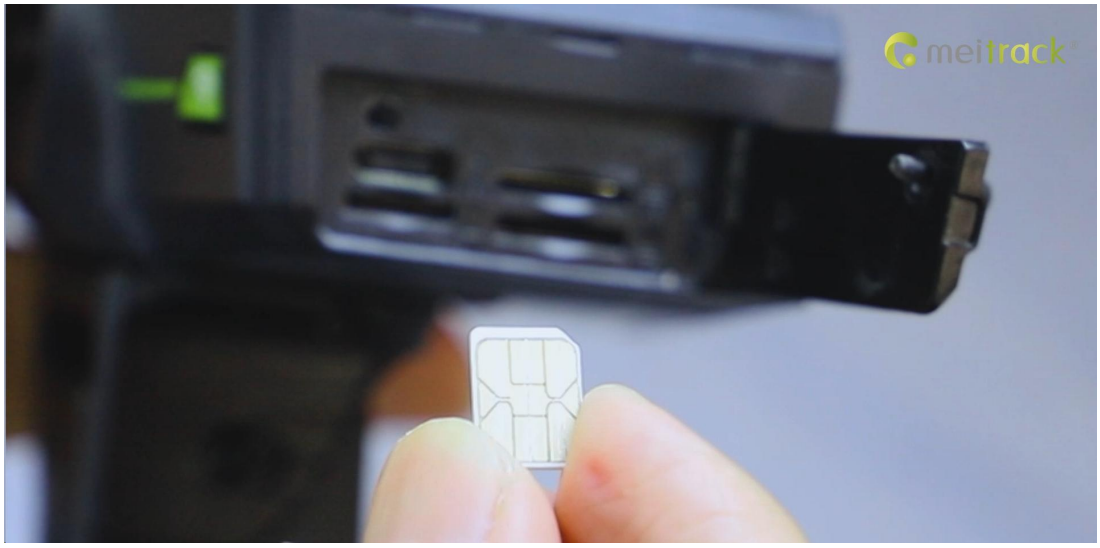
8 Installation

8.1 SIM Card & Micro SD Card Installation;

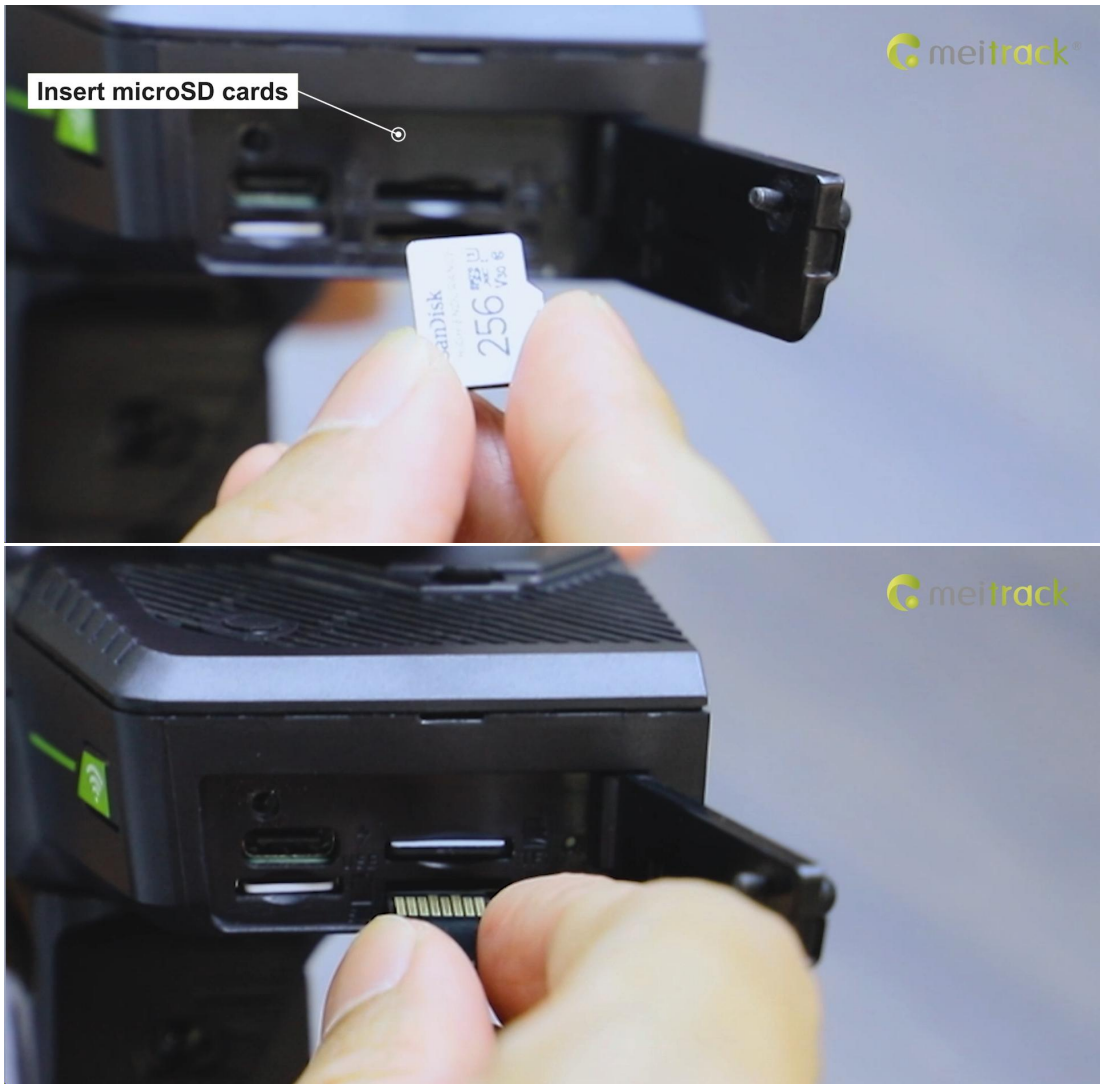
Remove the screws from the device cover and open the side interface cover:



1) SIM Installation - Insert the Nano-SIM as shown in the left of the figure below - with the metal chip facing up and the notch facing the interface direction, insert it into the card slot until it clicks, then release your hand;



2) Micro SD Card Installation - In the right Micro SD Card slot of the figure below, the Micro SD Card must be inserted with the gold finger facing down, and the side card slot on the right side; In the image, the Micro SD Card Slot 2 on the right requires the gold finger of the Micro SD Card to face upwards, with the side card slot on the left; Align the card with the slot and insert it; after hearing a 'click' sound, release the card, and it will not pop out.



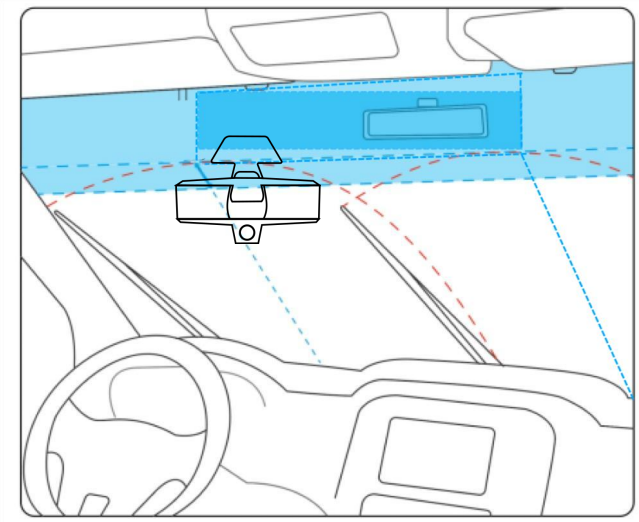
After installation, please cover the lid back and secure it with screws. (The image is a temporary illustration and will be replaced later.)

8.2 Main unit installation;

It is recommended to install the MD300 in the area around the rearview mirror on the upper right side of the steering wheel, as shown in the deep blue area, ensuring that the driver's face is within the 30° angle area on one side of the DMS Camera.

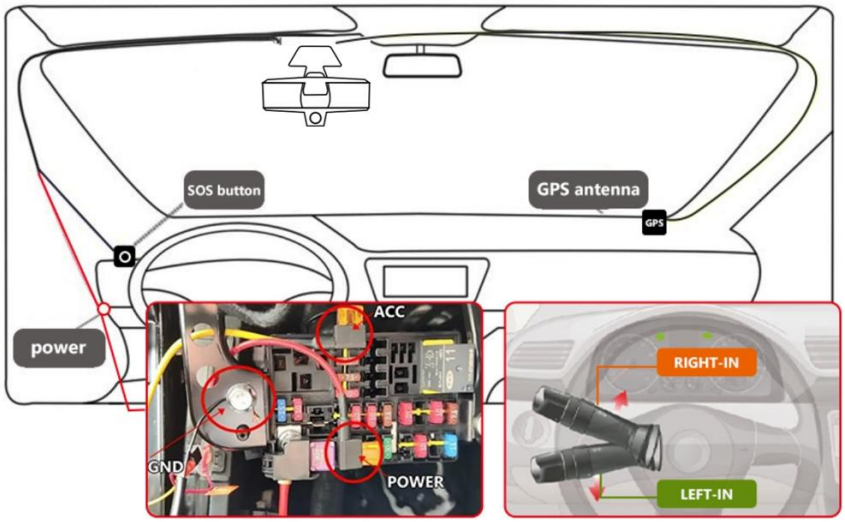
To ensure safe driving and maximize the accuracy of AI algorithms, the selection of the device installation location must be based on the following principles:

- Do not obstruct the driver's line of sight.
- Do not interfere with the driver's driving.
- The device should be kept level and not tilted.
- The driver's face should ideally be centered in the view of the inward-facing camera (preview available in the 'MT Manager+' APP).
- The center point of the front-facing camera's view should align as closely as possible with the horizon (preview available in the 'MT Manager+' APP).
- After installation, please strictly follow the AI calibration operation instructions to calibrate the AI-enabled camera (preview and calibration available in the 'MT Manager+' APP).

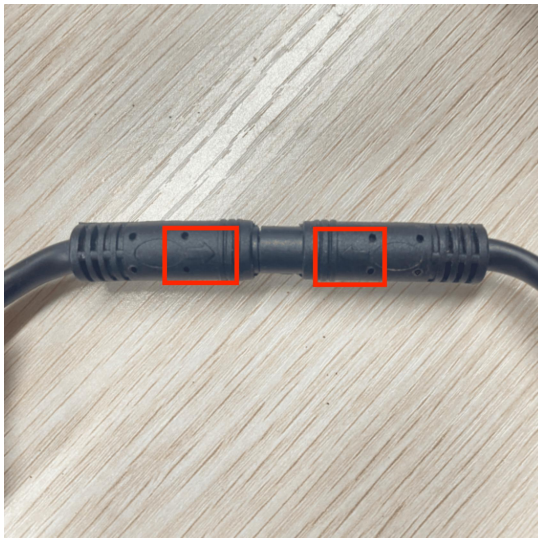


8.3 Power and ACC connection;

Please connect the ACC wire and power wire to the corresponding original vehicle fuse socket.



When connecting the power interface, be careful to align the arrow directions at both ends.

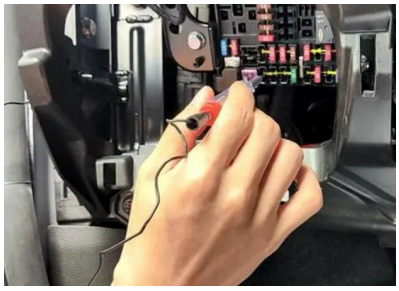


Note:

1. If you do not know which fuse socket corresponds to ACC or constant power, please use a multimeter or test pen to measure, as follows:

a. With the vehicle turned off and power disconnected, if the test pen light is on, this socket is a constant power socket;

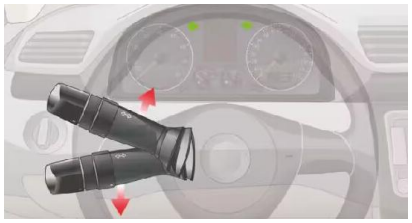
b. Start the vehicle, then use the test pen again; if the previously unlit socket is now lit, this socket is ACC.



2. If you do not know which fuse socket corresponds to the turn signal, please use a multimeter or test pen to measure, as

follows:

a. Start the vehicle, turn on/off the left or right turn signal, and use the test pen to check the fuse socket. If the socket you check lights up or goes out in sync with the turn signal being turned on/off, this socket is the left/right turn signal switch check socket.



b. If the left and right turn signal detection wires are not connected, please turn off the left and right road deviation alarm function; otherwise, it will default to triggering the left and right road deviation alarm events.

9 MS06 Server Configuration Steps

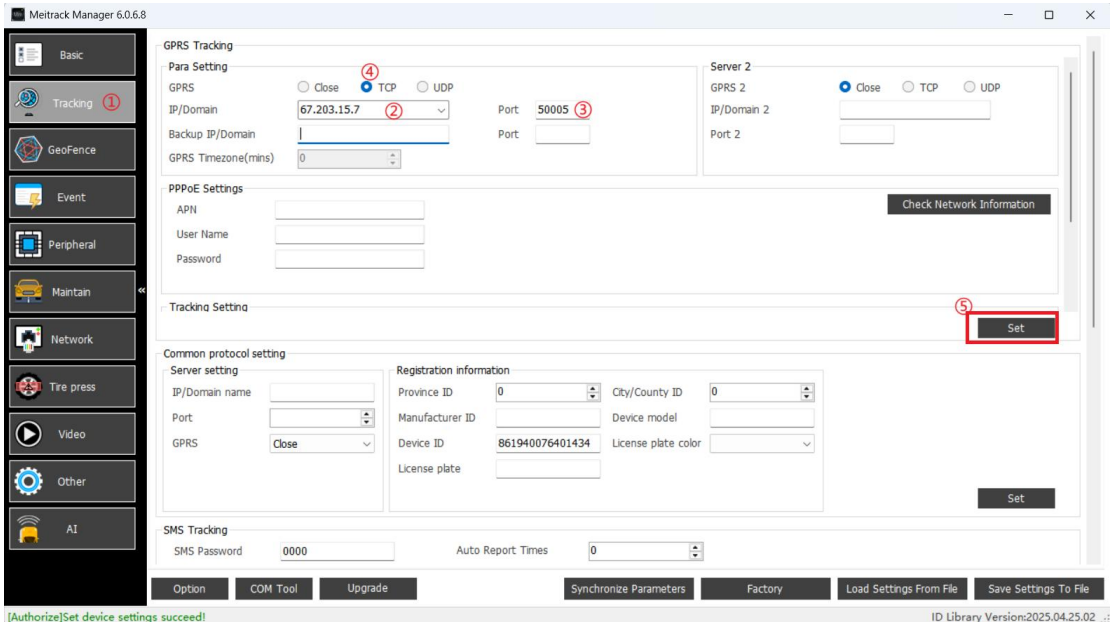
Single Server, Dual Server, JTT 808\JTT 1708 Server

MS06: IP: **MS06.trackingmate.com** Port: **6006**

JTT 808\JTT 1708 MS06: IP: **MS06.trackingmate.com** Port: **8506**

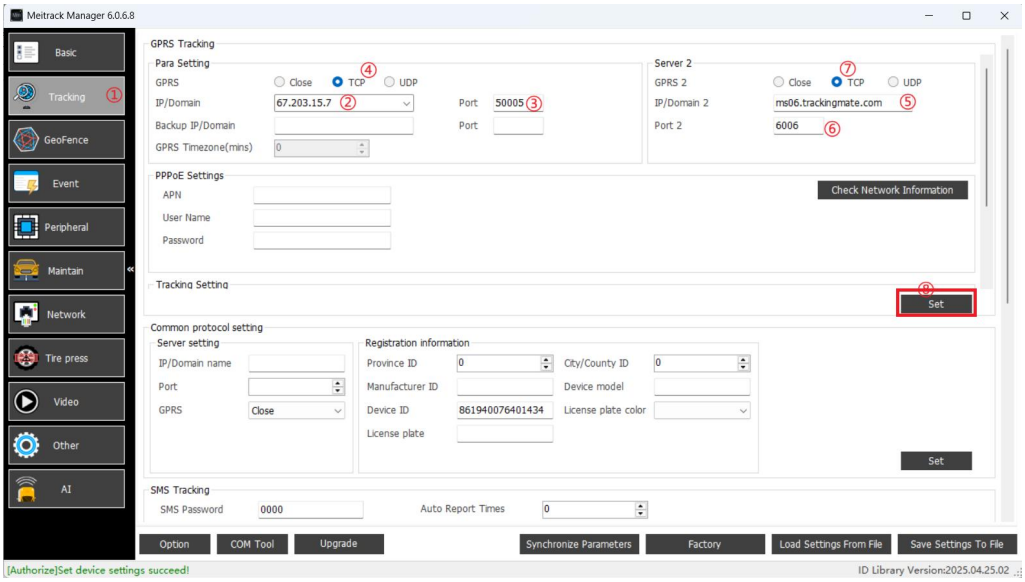
9.1 Single Server

First, click Tracking Settings ①, then enter the MDVR platform IP ② and port ③, confirm the selection of TCP Connection ④, then click Set ⑤.



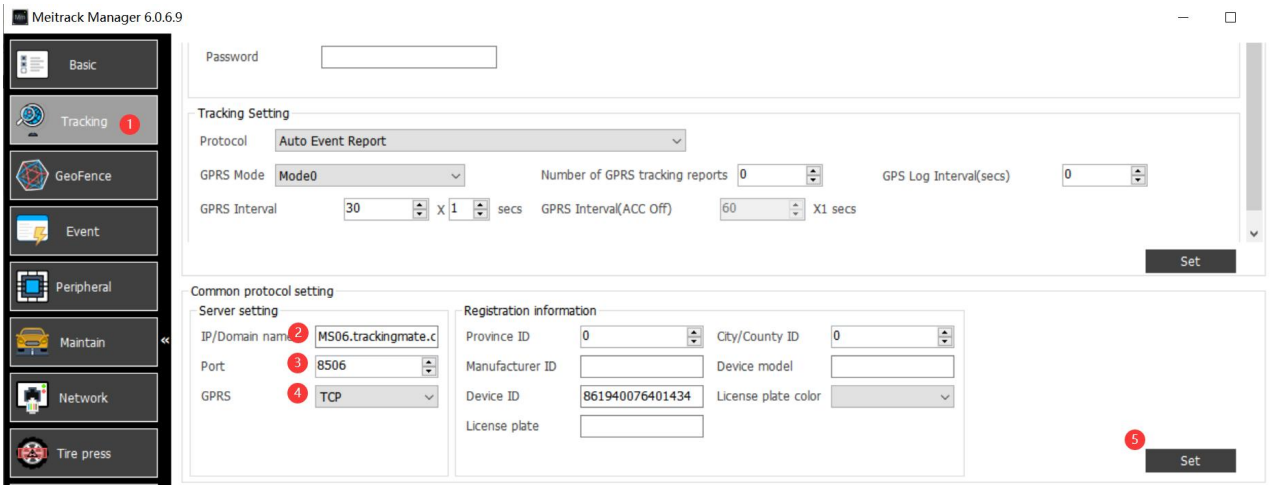
9.2 Dual Server

First, click Tracking Settings①, then enter the MDVR platform IP② and port③, confirm the selection of TCP Connection④, then enter the MS06 platform IP⑤ and port⑥, confirm the selection of TCP Connection⑦, and finally click Set⑧.



9.3 JTT 808\JTT 1708 Server

First, click Tracking Settings①, then enter the MDVR platform IP② and port③, confirm the selection of TCP Connection④, then click Set⑤.

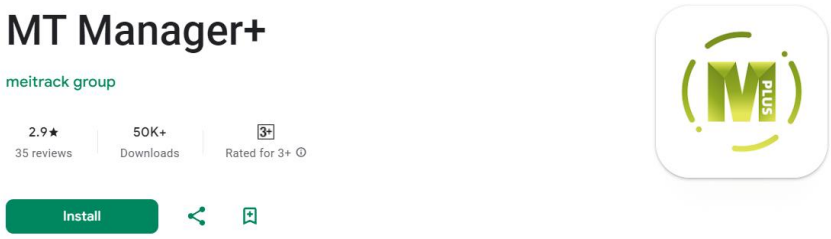


10 Parameter configuration

10.1 APP parameter configuration

(1) Download the APP

Search for 'MT Manager+' in the Google Play Store or App Store, download and install it.

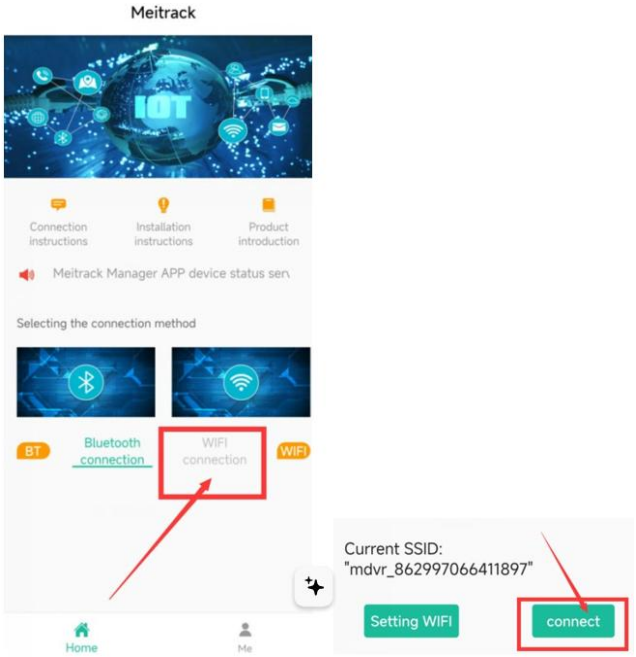


https://apps.apple.com/cn/app/mt-manager/id1640858688

https://play.google.com/store/apps/details?id=com.meitrack.mm.all

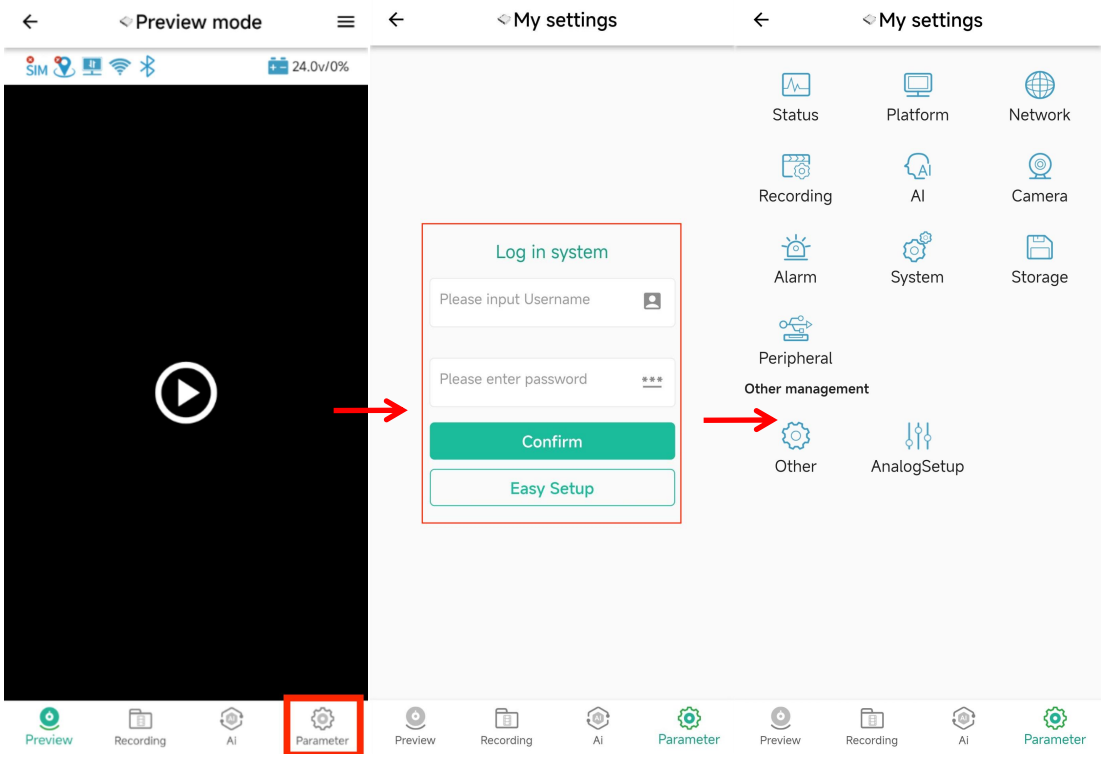
(2) Connect the device

For the first connection to configure the APP, press the button to the right of the LED indicator to turn on the device's WIFI hotspot. After connecting to the device's WIFI, use the APP to connect to the device.



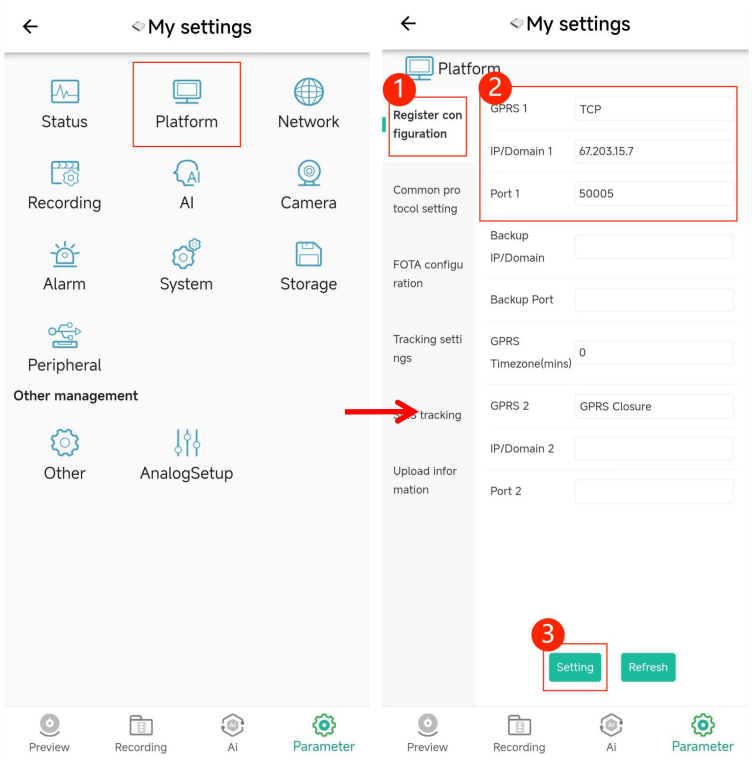
(3) Log in to the management account

Once the APP successfully connects to the device, click on 'Parameter Configuration' in the navigation bar below, and enter the account-password: 'admin', '0000' to access the parameter configuration page.



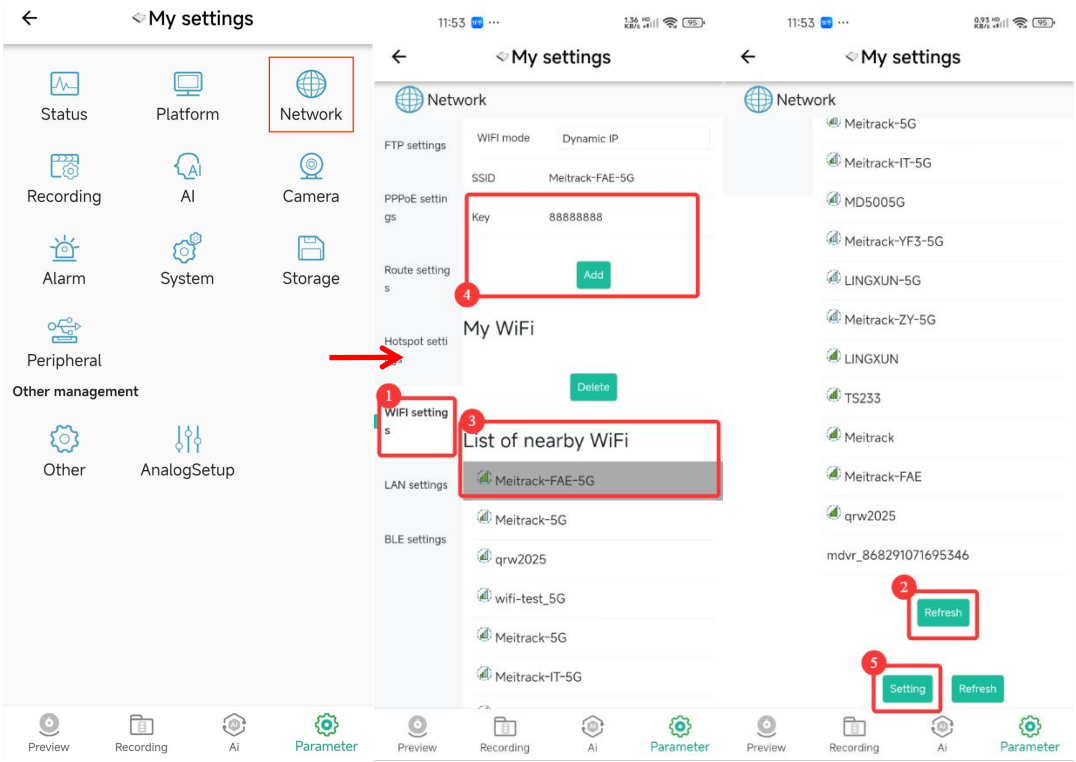
（4）Configure platform parameters

Click in sequence — Register Configuration — Set GPRS1 connection method to TCP — Enter IP/Domain 1: 67.203.15.7, enter Port 1: 50005 — Click 'Settings' at the bottom of the page



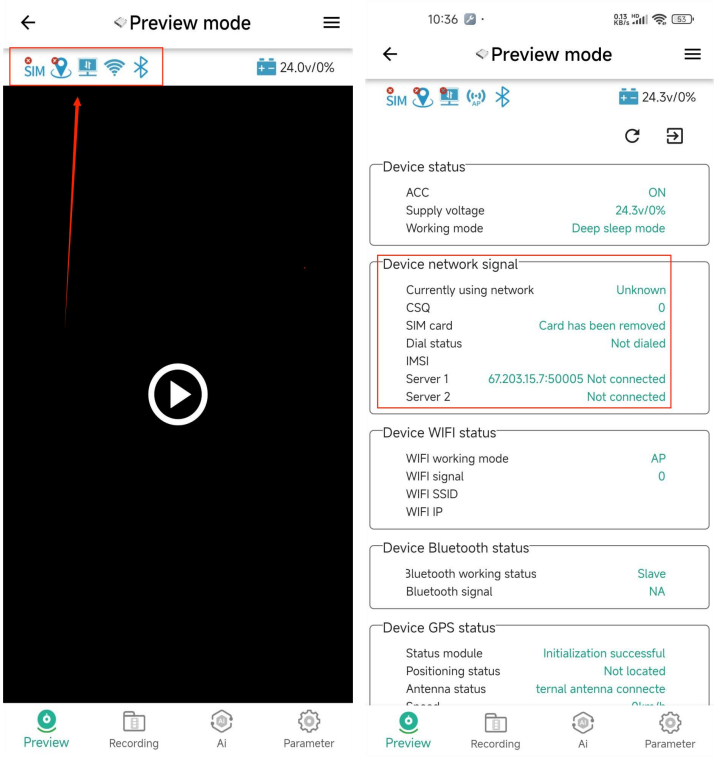
（5）Configure WIFI parameters

Click in sequence — Network Settings — WIFI Settings — Nearby WIFI List — Refresh — Select and click on the WIFI from the list — Enter the WIFI password above 'My WIFI' — Click Add — Click 'Settings' at the bottom of the page



（6）Connection status check

Return to 'Preview', click the status list in the upper left corner to check the device status



10.2 MM parameter configuration

（1）Basic page

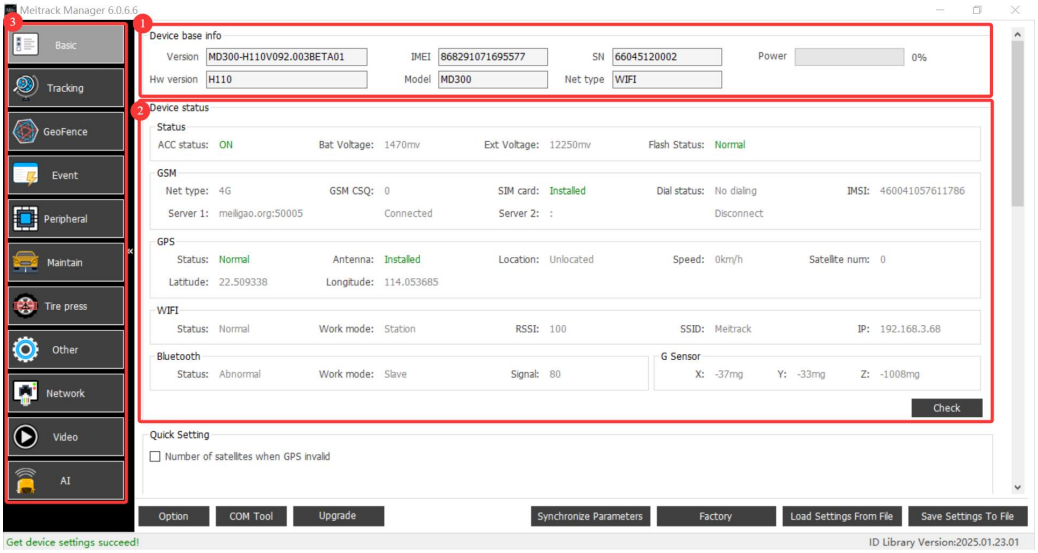
Use a C to A data cable to connect the device to the PC, ensure no other software is occupying the serial port, open Meitrack Manager, and MM will automatically recognize and read the device information, entering the basic settings page.

The following functions can be achieved on the basic settings page:

① View basic device information such as IMEI number, FW version, etc.

② Check the status of various device modules, such as GSM and WIFI signal strength, as well as server connection.

③ Navigate to other functional pages via the navigation bar.



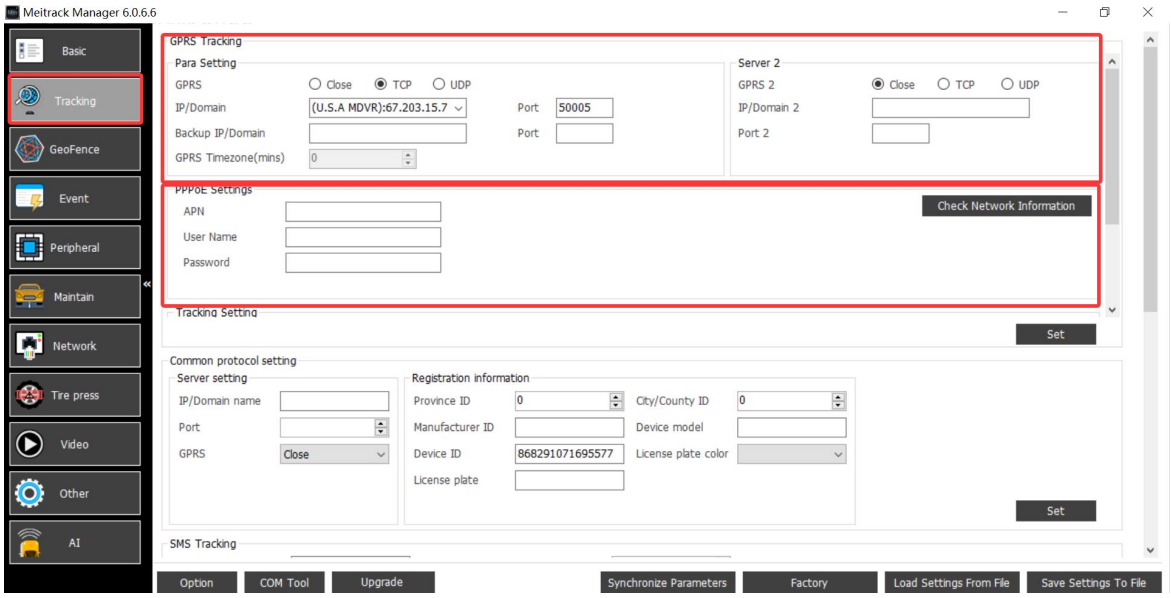
（2）Connection Settings

When using the Meitrack MDVR platform, the GPRS connection mode must be set to TCP mode, and the main server IP should be set to the US MDVR server. The port will be configured automatically at this time, and when setting a custom IP, the GPRS time zone can also be adjusted as needed.

On the right side of the main server, the secondary server can be configured, requiring the user to input the IP and port manually.

Below, you can set the internet dial-up - APN, username, and password.

Finally, do not forget to click 'Set' to save the settings.



（3）Network Settings

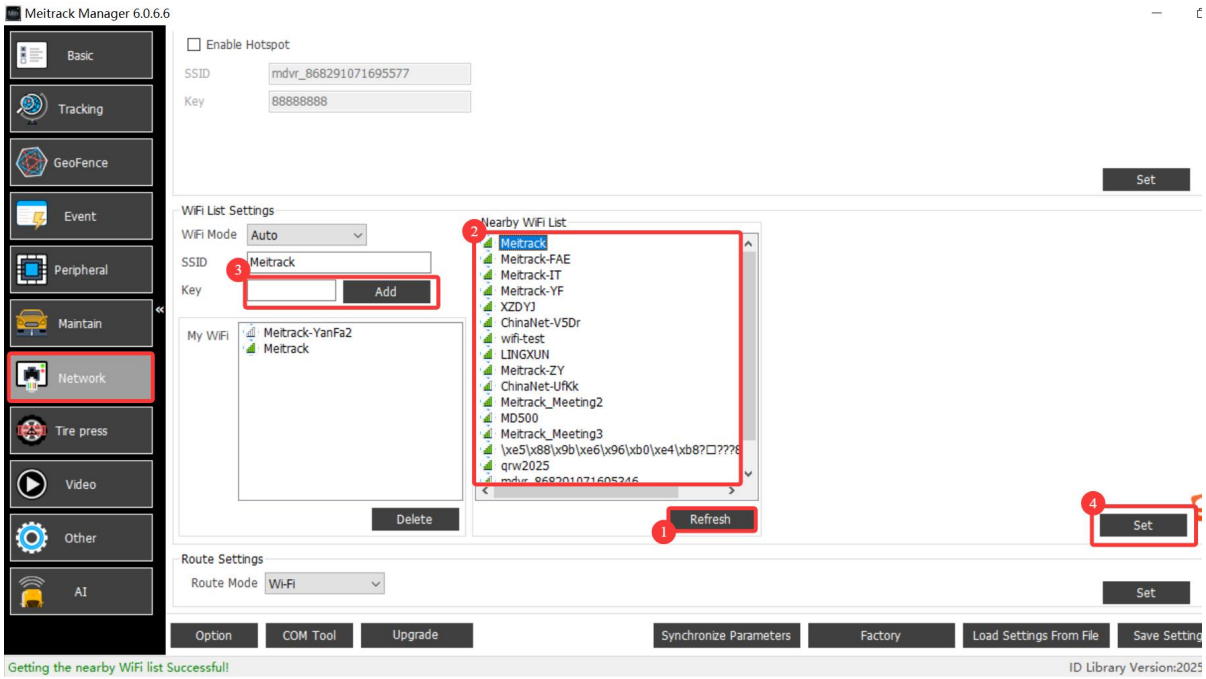
Set up the connection to WIFI on the network settings page.

① Find the WIFI list settings and click refresh to search for nearby WIFI

② Click to select WIFI from the WIFI list

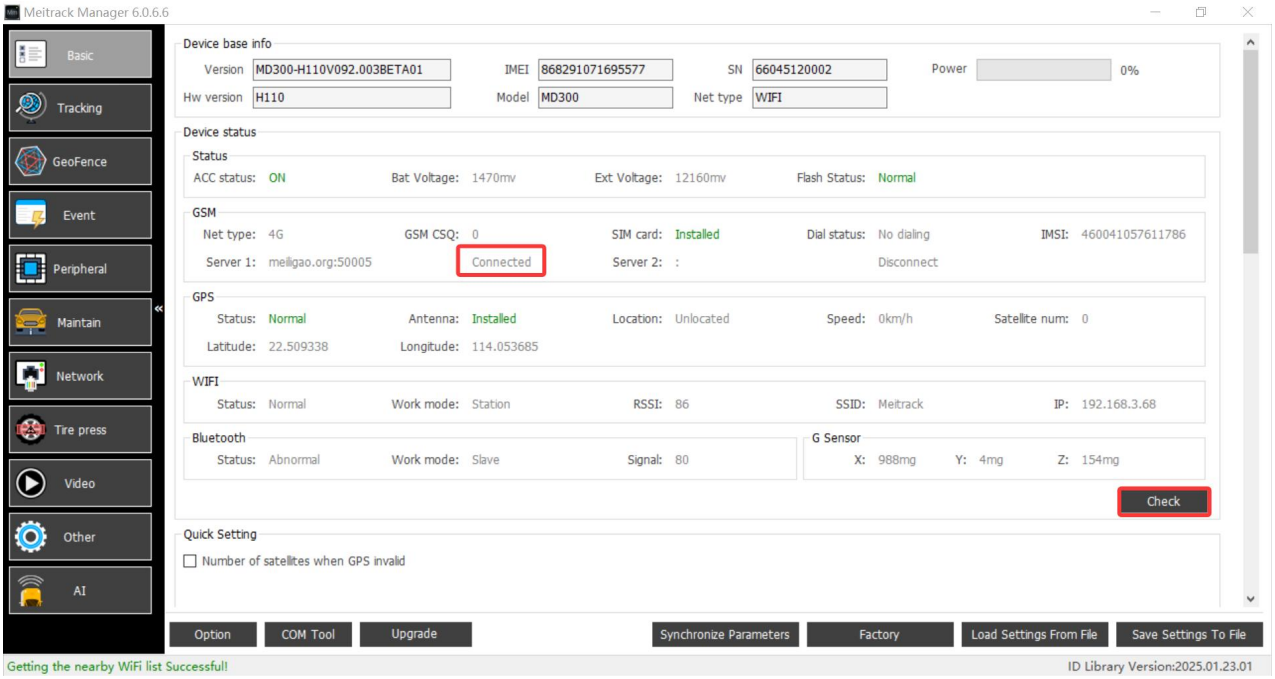
③ Enter the password and click add

④ Finally, click 'Set' to save the settings



(4) Status Check

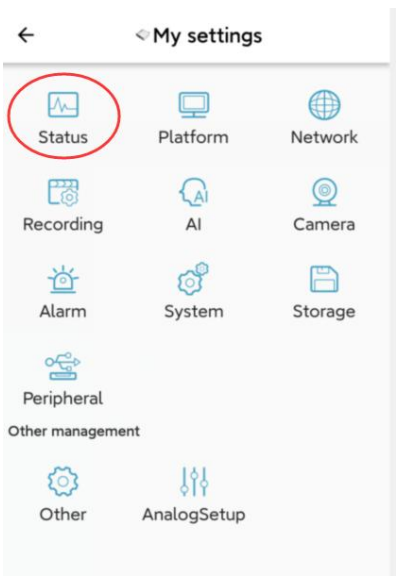
After completing the above operations, return to the basic settings page and click the 'Check' button to view the status of each module of the current device. If it shows 'Connected', it indicates a successful connection to the platform, and you can proceed to add the device on the platform. For specific steps on adding devices, refer to the platform setup instructions.

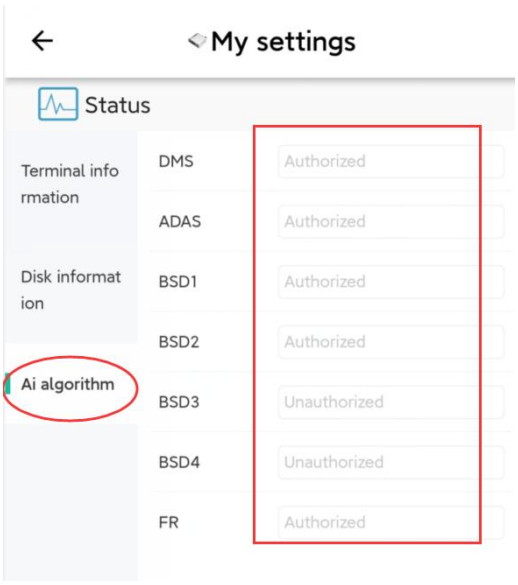


11 AI alarm settings

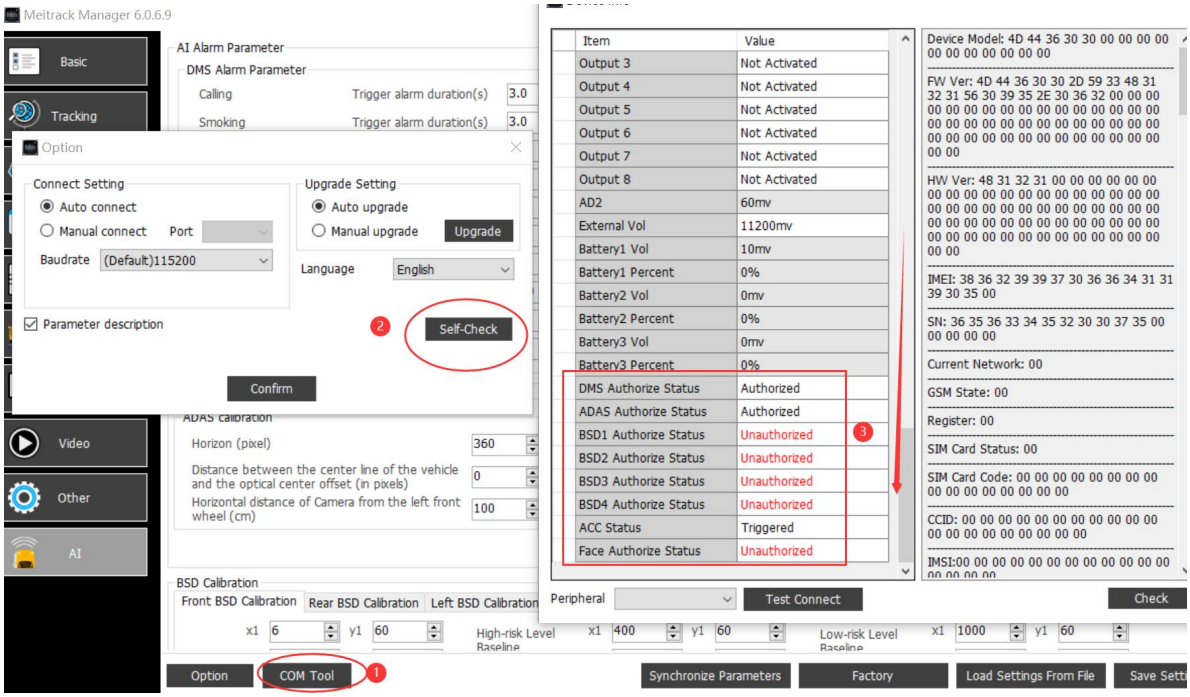
11.1 Check whether the AI algorithm is activated

1.Open the parameter interface as shown in the figure below: Select "Status", then select "Ai algorithm". You can check whether the corresponding AI algorithm of the device has been activated.





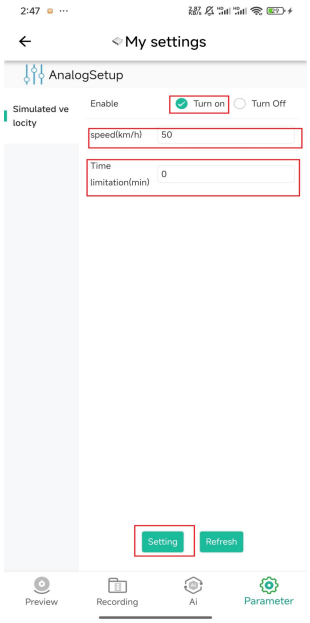
2. Or, as shown in the following screenshot, use the Meitrack Manager configuration tool to check whether the AI algorithm has been activated.



Notes: If the AI algorithm is not activated, the corresponding AI functions will not be available.

11.2 Indoor testing: enable simulated speed

Usage: Indoor testing of ADAS and DMS with simulated speed; set the simulated speed as shown in the figure below:



Parameter	Description
Enable	Toggle option for simulated speed
Speed (Km/h)	The device automatically simulates the current driving speed to trigger specific conditional event feedback.
Duration (min)	Duration for which the simulated speed remains active to prevent forgetting to disable it, thereby avoiding false alerts during use.

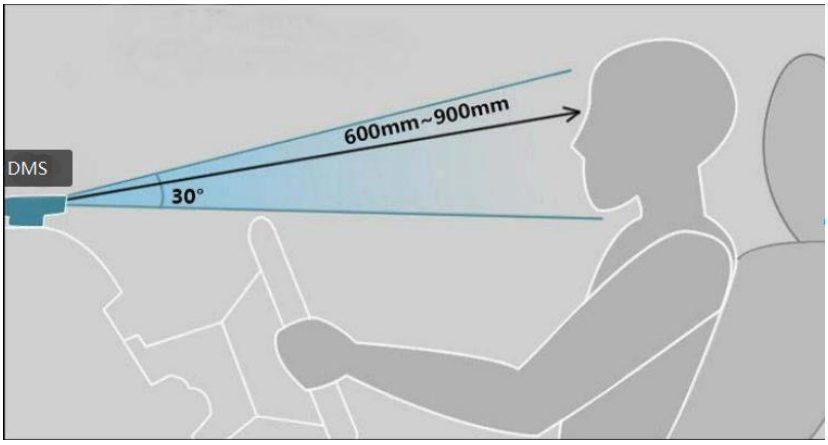
Note: The simulated speed will be disabled after the device restarts.

11.3 Calibration of ADAS, DMS, BSD, and facial recognition via the APP.

11.3.1 Installation and calibration of the DMS camera.

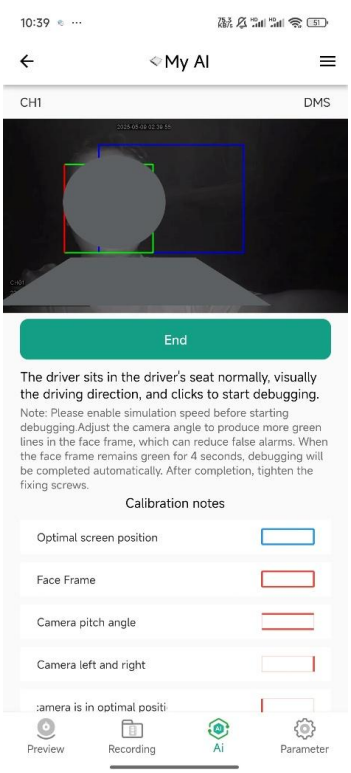
The DMS should preferably be installed directly in front of the driver at a relatively high position, with an angle not exceeding 30 degrees. The main unit should not be higher than eye level, nor lower than 30 degrees below the eye. The lens distance from the eyes should be between 60 cm and 90 cm. Additionally, the maximum horizontal angle must not exceed 30° to the left or right

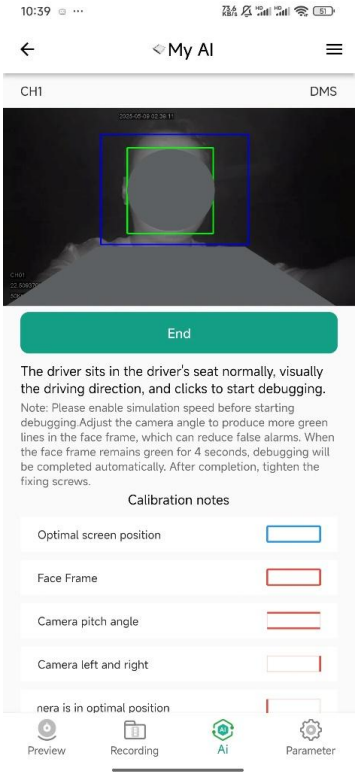
of the driver. An example image is shown below:



Calibration adjustments can be performed via MT Manager +, as shown in the following image:

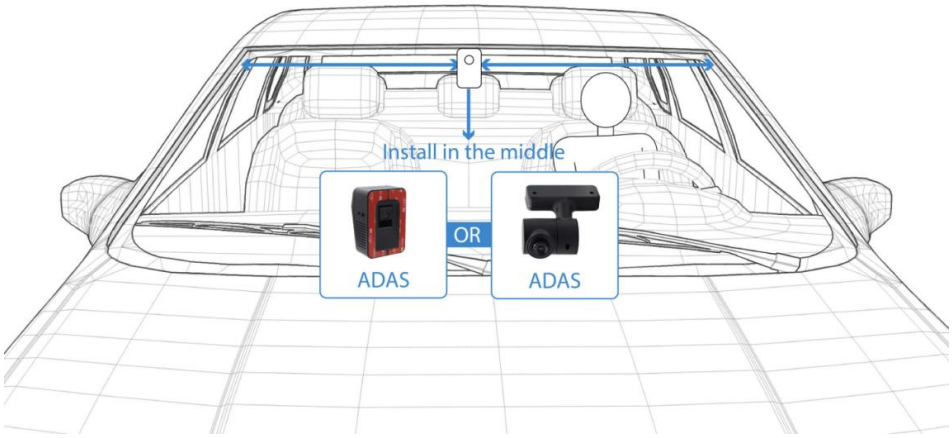
The blue box represents the fixed DMS detection area; the red box indicates a detected face outside the range; the green box indicates a detected face within the range and functioning properly. When the primary facial features are fully enclosed within the blue box and the face frame turns green, calibration is successful.





11.3.2 Installation and Calibration of the ADAS Camera

Install as close to the center of the windshield as possible without obstructing the driver's field of view. An example image is shown below:



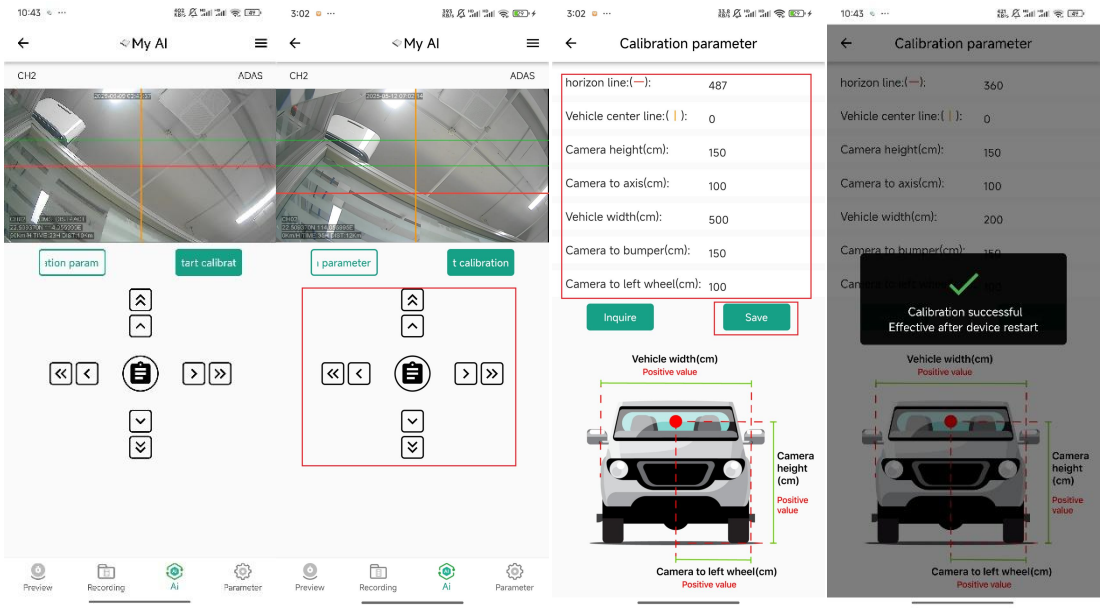
Note: After installation, adjustment and calibration must be performed using MT Manager+ to enhance ADAS accuracy.

There are three methods to calibrate ADAS. Once the ADAS position is confirmed, you may proceed with calibration:

Method One: On the touchscreen, drag the red horizontal line to the position where the horizon disappears (the green lines indicate the range). The yellow vertical line represents the road's center line.

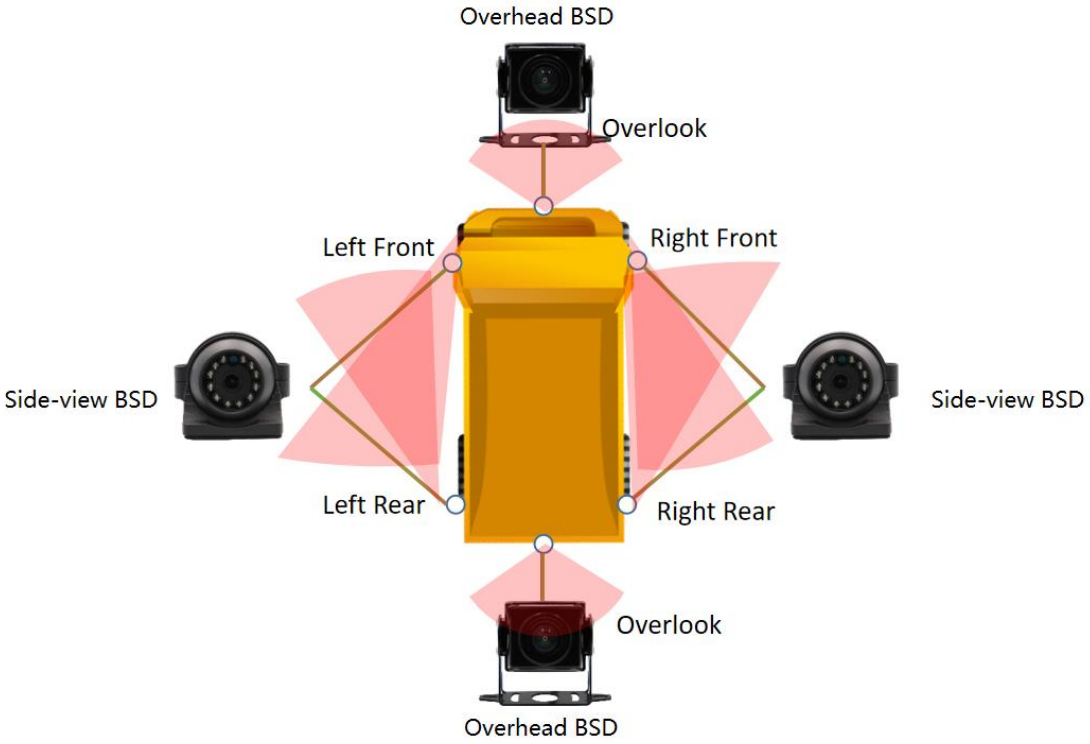
Second method: Click the button and drag the red horizontal line to the position where the sky and ground disappear (the green line indicates the range). The yellow vertical line represents the road centerline.

Third method: Configure the ADAS calibration parameters and click Save to apply.



11.3.3 BSD Camera Installation and Calibration

1.There are two types of cameras: side-mounted cameras and overhead cameras. Therefore, when installing the BSD on a vehicle, if the blind spots to be detected are on the left and right sides of the vehicle, the corresponding cameras are Head-up (side - mounted) cameras. If it is to check the blind spots at the rear or front, then the overhead camera should be selected. As shown in the figure below.



Note: The "front/rear" BSD corresponds to Overlook. The "left/right" BSD corresponds to a Head-up: left front/rear, right front/rear.

2. Regarding the configuration of the BSD function in the MT Manager + APP.

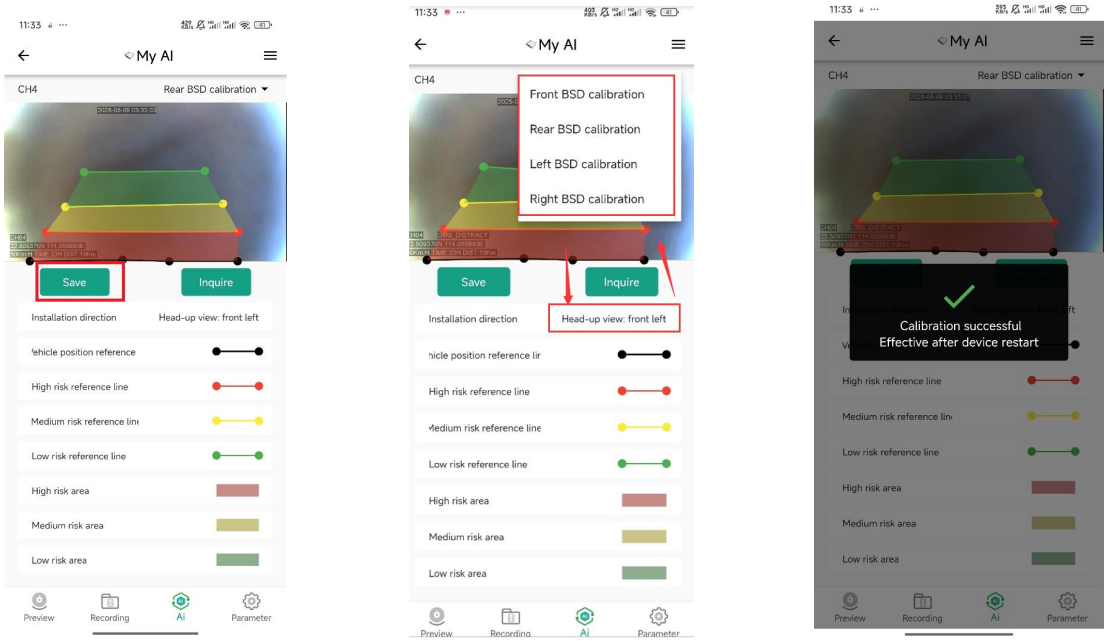
(1) The screen will automatically switch to the BSD camera. Use your finger to adjust the four lines on the screen to define three zones. By default, red represents a high-risk area, yellow represents a medium-risk area, and green represents a low-risk area.

(2) The "front/rear" BSD corresponds to Overlook. The "left/right" BSD corresponds to a Head-up: left front/rear, right front/rear.

(3) Only one save is required; click Save to apply the settings.

(4) Then click the upper right corner to switch to the other BSD camera and repeat the procedure.

(5) Once all BSD calibrations are completed, testing may commence.



Note: The MS300 is connected to an audible and visual alarm device. Please refer to the relevant accessory documentation.

By default, the BSD (Blind Spot Detection) will trigger an alarm only when the speed is lower than 30KM/H.

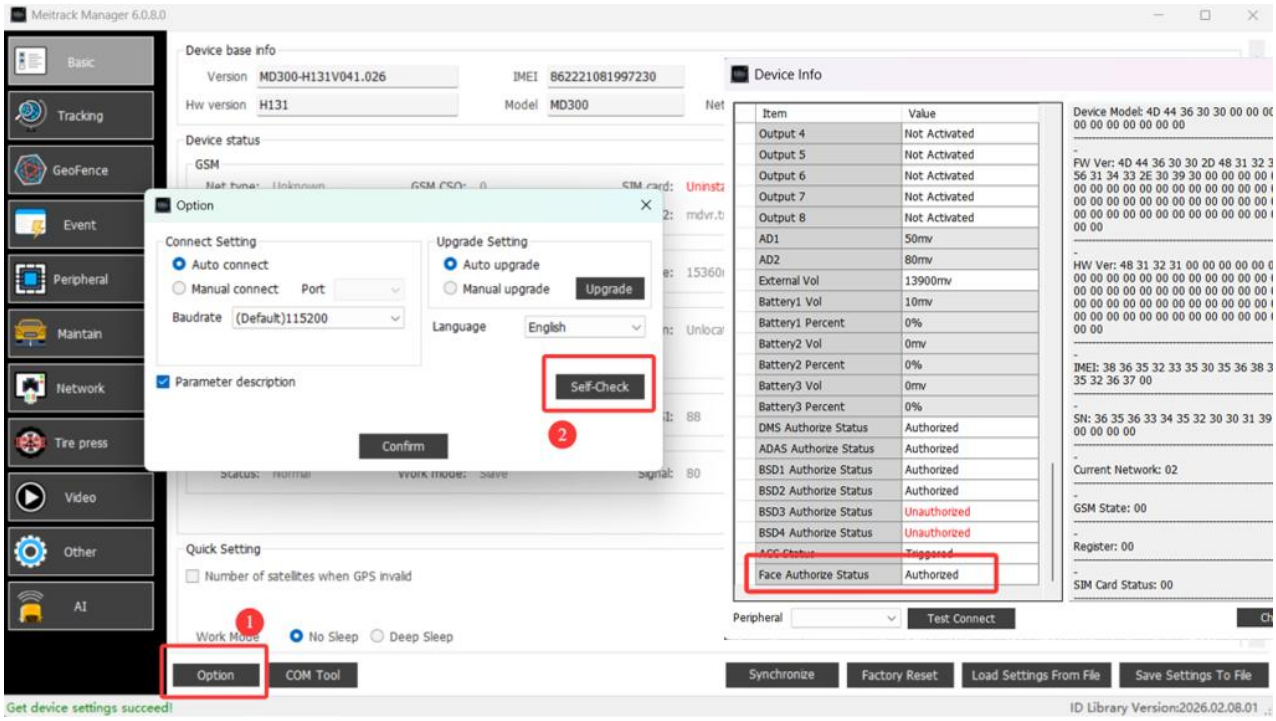
11.3.4 Display Screen Installation

The audio and video extension cable needs to be connected to the MD300.

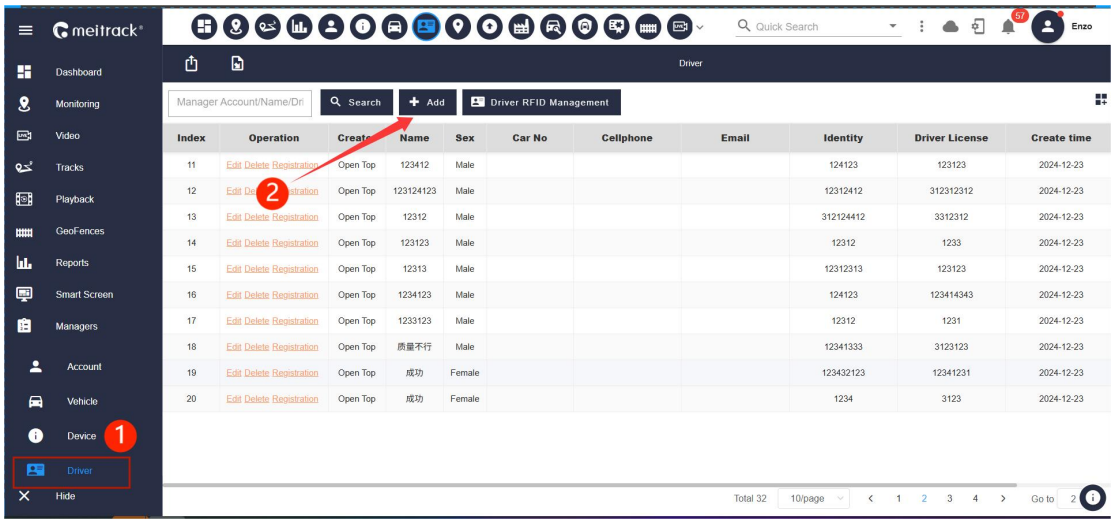
Connect the display screen and camera to AV_OUT and AV_IN respectively, and you can view the images.

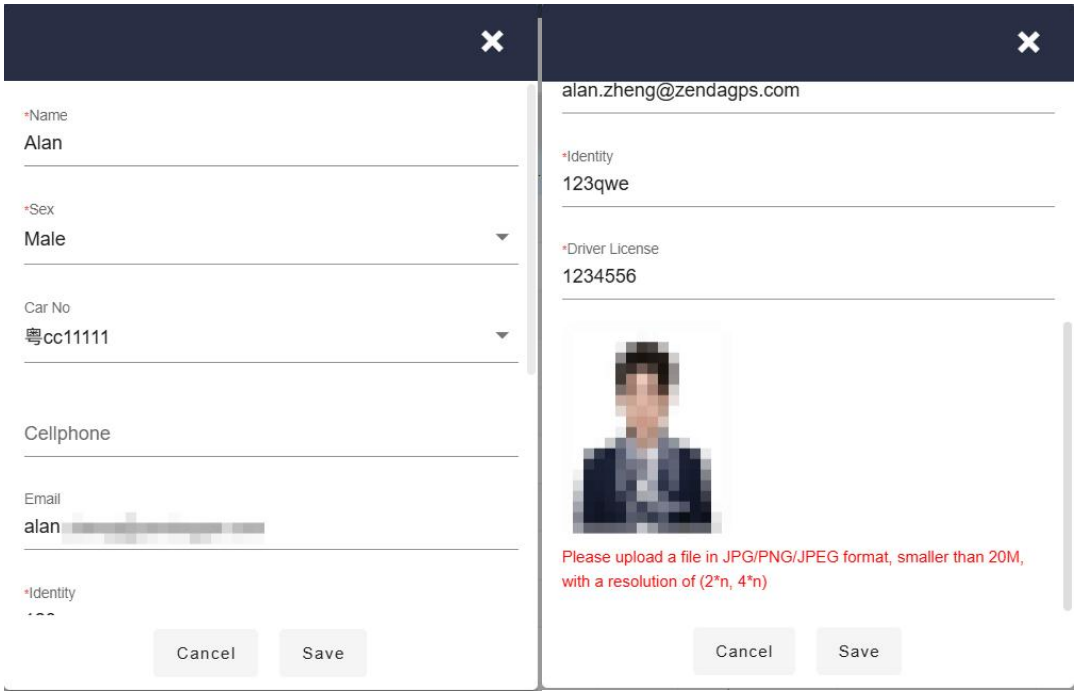
11.3.5 Face recognition function

1. Check if the device supports facial recognition, with the specific operations as follows:

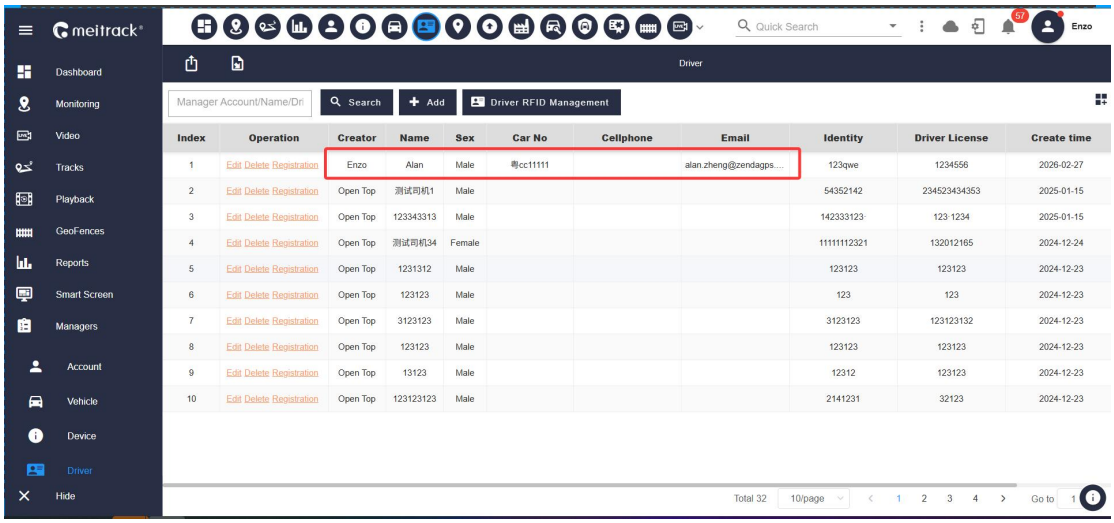


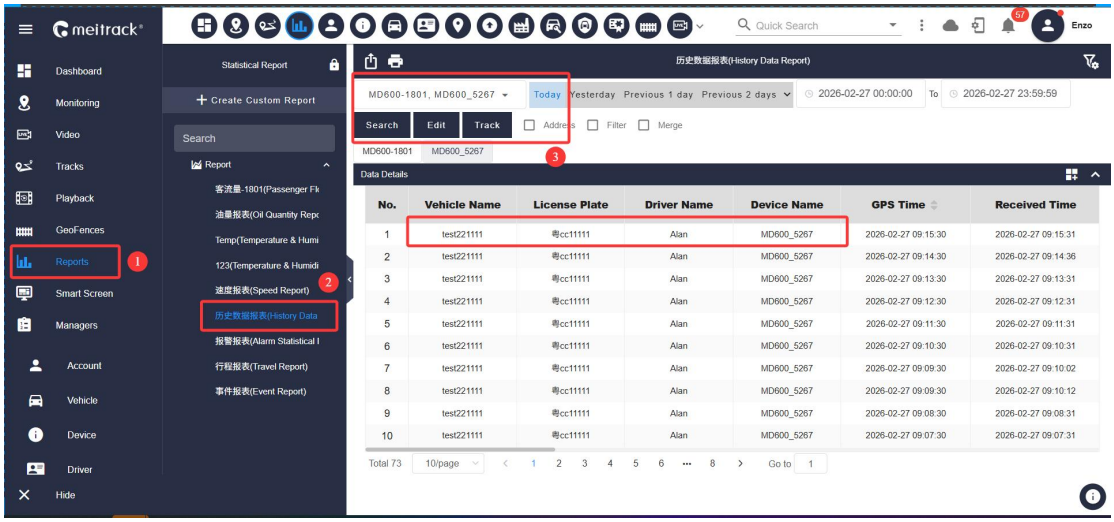
2. Add facial information to the MS06 platform and upload the facial image. The steps are as shown in the figure below:





3. Click "Save". The driver's information can be seen in the driver list, and when an event alarm occurs on the device, the driver's information will be uploaded.

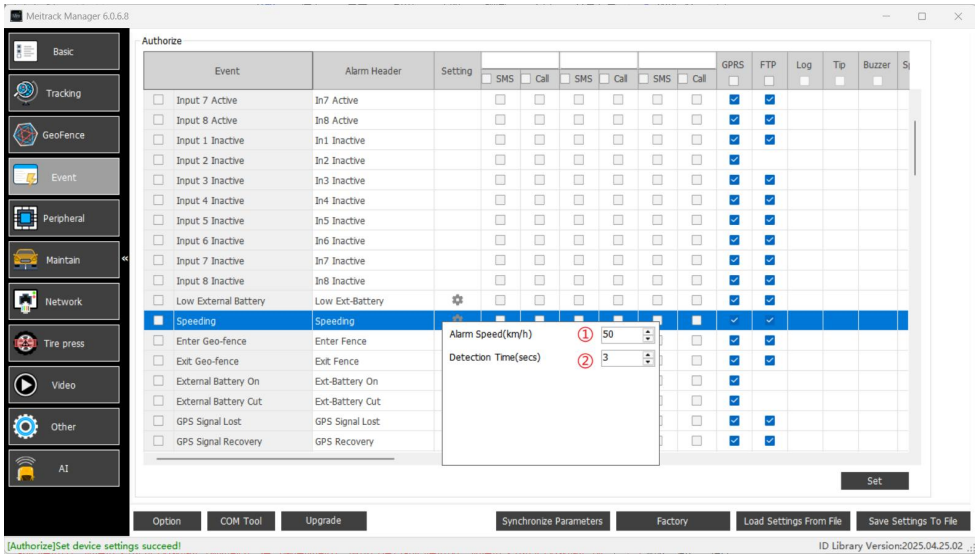




12 MD300 Function Settings

12.1 Set Overspeed, Harsh acceleration\Harsh Braking, and Impact Alarm

(1) Overspeed: In the MM overspeed event settings, the alarm method can be configured as SMS, telephone, or GPRS. Set the overspeed threshold and alarm detection time: When the device detects that the speed exceeds the threshold and remains above it for the specified detection time, an overspeed alarm will be triggered.



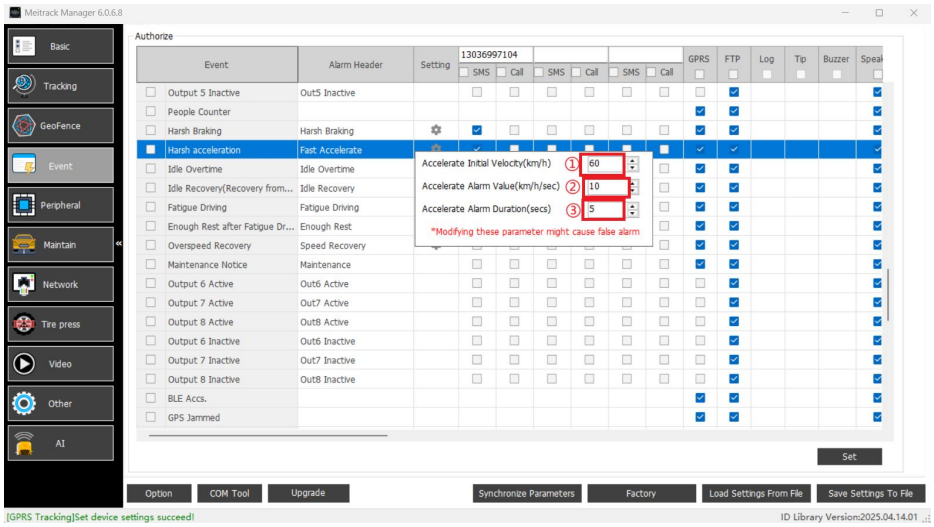
(2) Harsh acceleration\Harsh Braking: In the MM Harsh acceleration and Harsh Braking event settings, the alarm method can be configured as SMS, telephone, or GPRS.

For Harsh acceleration\Harsh Braking events, you can set ① initial speed, ② acceleration\deceleration threshold, and ③ alarm duration;

① Initial speed: The initial speed value that triggers Harsh acceleration or Harsh Braking;

② Harsh acceleration/deceleration value: Sets the trigger threshold for acceleration or deceleration;

③ Detection time for triggering Harsh acceleration/deceleration: Within this time frame, the acceleration or deceleration value reaches the trigger threshold.

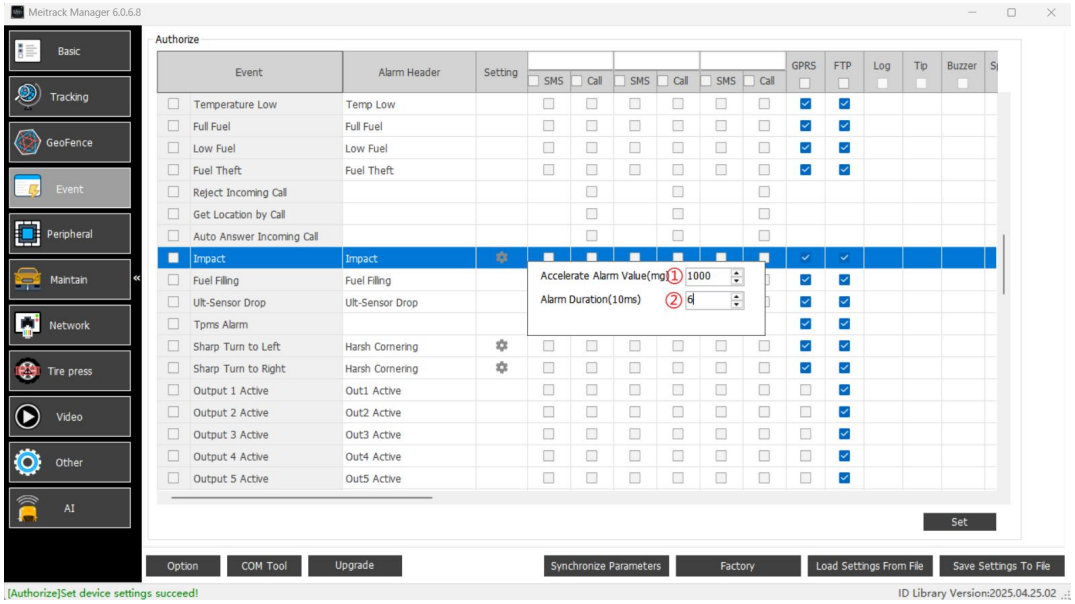


(3) Impact alarm: In the MDVR impact event settings, the alarm method can be configured as SMS, telephone, or GPRS;

① Alarm acceleration: Sets the acceleration threshold that triggers a impact event, unit mg, range 500–65535;

② Alarm duration: Sets the duration of the impact event, unit 10 ms, range 0–255;

Note: For actual vehicle installation, the device must be firmly secured to the vehicle to ensure more accurate impact alarms. (The default values are identical for both small and large vehicles. If frequent false impact alarms occur during actual use, the impact acceleration threshold can be raised.)



12.2 Upload Alarm Images and Videos

12.2.1 Configure to trigger alarm photo capture and snapshots;

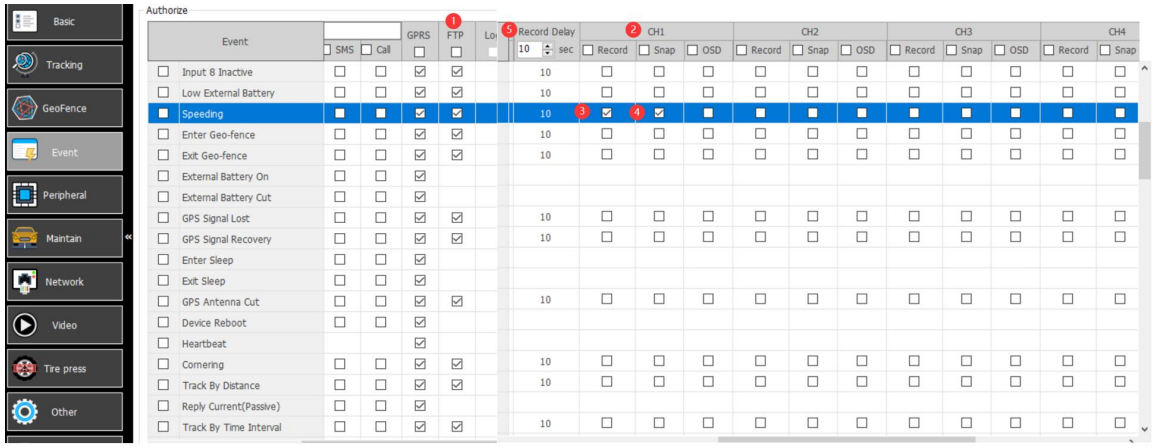
① Set whether to upload to the FTP Server;

② After triggering the alarm, select which CH to capture photos and record videos;

③ "Record" refers to video recording; video recording will start after triggering the overspeed alarm;

④ "Snap" refers to photo capture; a photo will be taken after triggering the overspeed alarm;

⑤ "Record delay" specifies the duration of video recording after the alarm is triggered. For example, setting it to 10 seconds will record video data 5 seconds before and 5 seconds after the alarm.



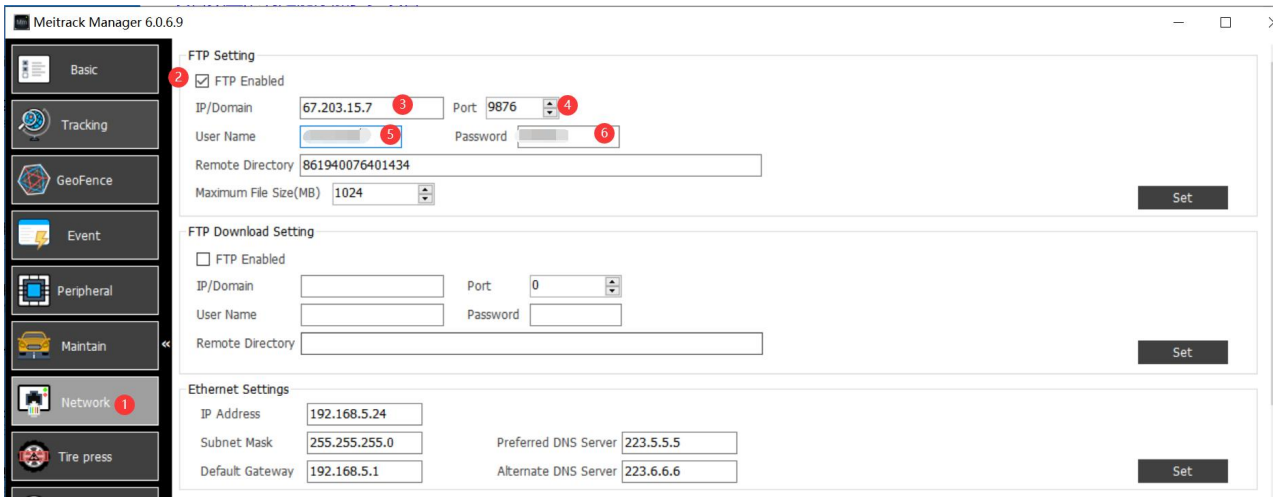
12.2.2 Configure FTP Server

① In Network Settings, enable ② FTP Enable;

Enter ③ Domain Name, ④ Port, ⑤ Username, ⑥ Password, then click Set

Default FTP Server IP: **67.203.15.7**; Port: **9876**;

The username and password are the same as the MS06 platform account.

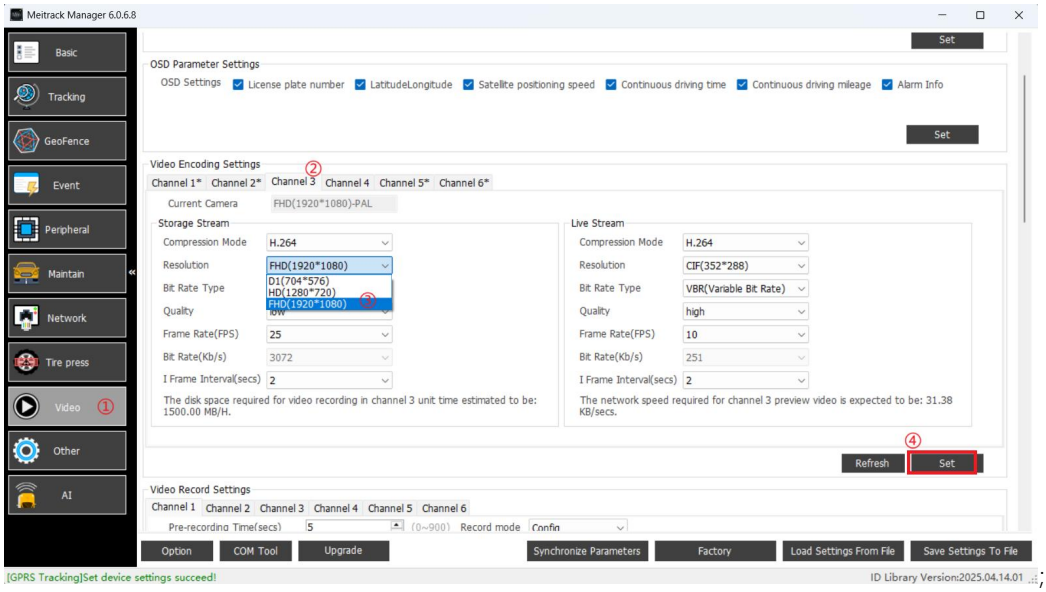


Note: Incorrect FTP Server parameter settings will cause images and videos to fail to upload properly to the FTP Server.

12.3 Set the resolution for stored stream video and real-time stream video.

12.3.1 Set the resolution for stored stream video.

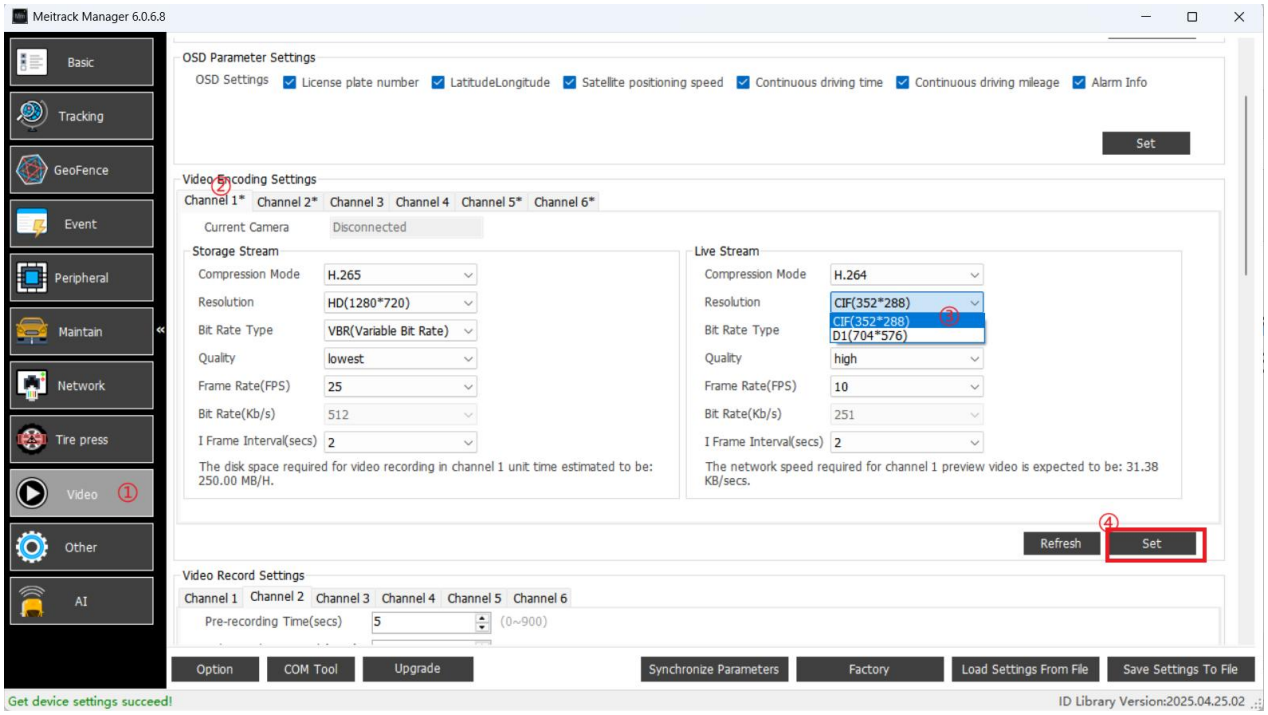
Click ① Video Settings, select ② Camera Channel and ③ Resolution, then ④ click Set.



Note: Stored stream video will not be actively uploaded to the FTP Server; it requires a command from the server to retrieve the stored stream video.

12.3.2 Set the resolution for real-time stream video.

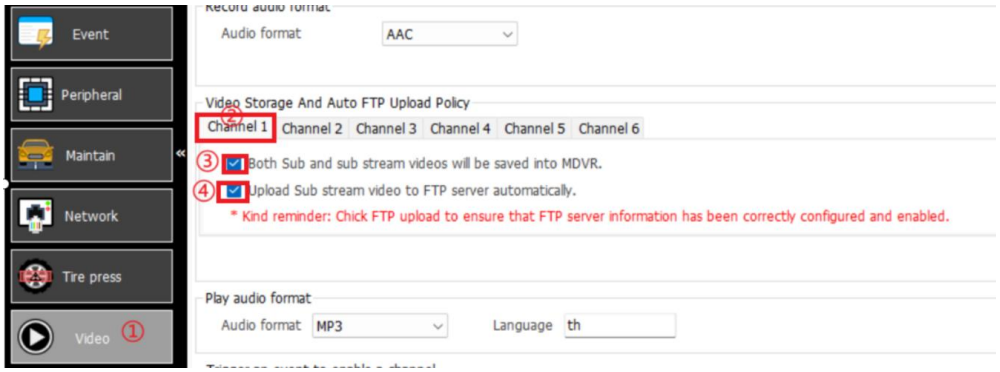
Click ① Video Settings, select ② Camera Channel and ③ Resolution, then ④ click Set.



Note: Real-time video can be configured to actively upload video to the FTP Server. To enable this function, please follow the steps below:

(1) Configure the FTP Server first.

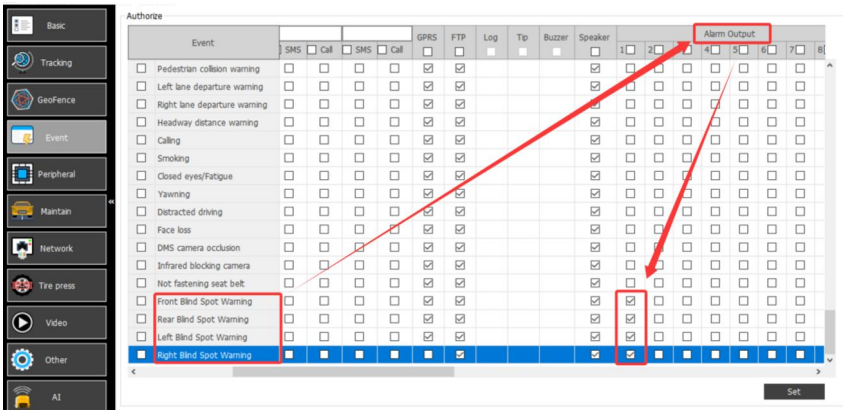
(2) Select ①Video Settings, then choose ②Camera Channel, ③Real-time Video Storage (if unchecked, real-time video will not be uploaded), and ④Upload Real-time Video to FTP Server;



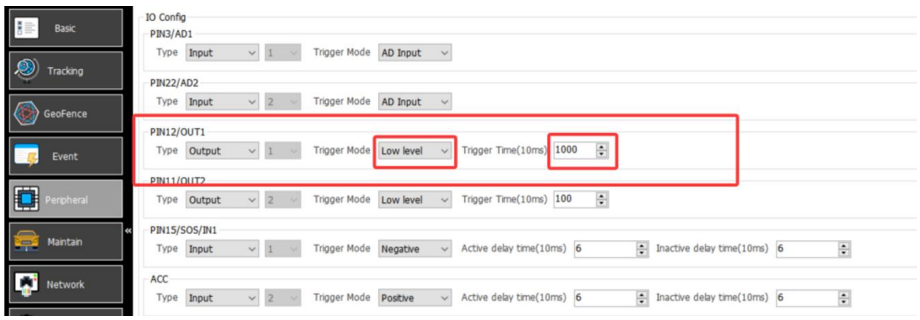
12.4 Event triggers OUTPUT output

This function is used to control the OUTPUT to output a GND or PWM. The OUTPUT can be connected to relays, LED lights or buzzers.

For example: As shown in the figure below, it is set for the BSD event to trigger OUTPUT1 to control the buzzer to make a sound.



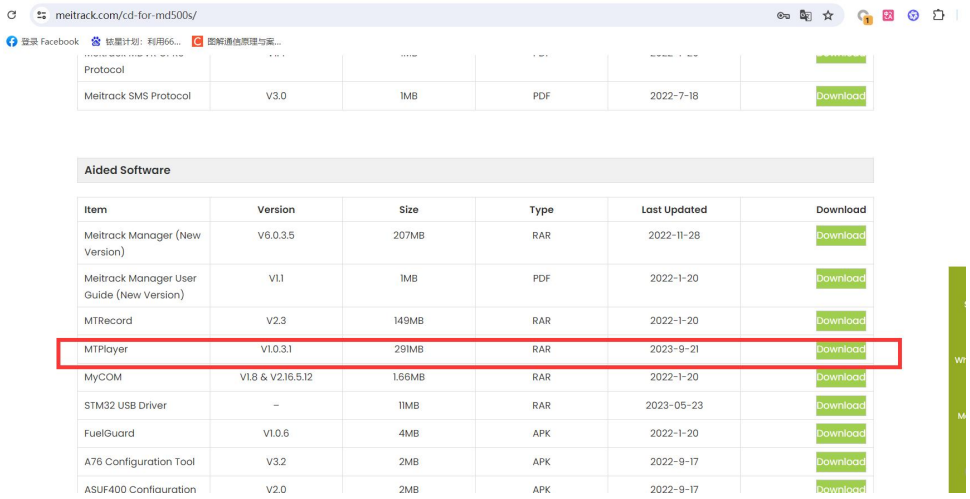
Set OUTPUT1 to low trigger mode and set the trigger time to 1000ms; When the trigger alarm occurs, the buzzer will sound for 10 seconds and then automatically turn off.

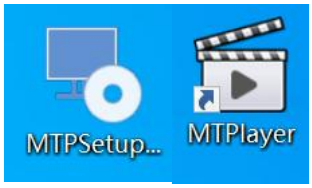


13 MTplayer

13.1 MTplayer Installation

Go to https://www.meitrack.com/cd-for-md500s/, download MTplayer setup.exe, and the installation password is meitrack.iot. After successful installation, a shortcut for MTplayer will be generated on the desktop.





13.2 Storage Card Connection to PC - MTplayer

1) Open the side interface cover of the MD300, gently press the end of the Micro SD Card to remove it, insert the Micro SD Card into the card reader, and then connect the card reader to the USB port.

2) Open MTplayer, select Local disk, click 'Search', and once the search progress is complete, it will indicate that the search is finished.

13.3 MTplayer Page User Guide

1）The main part is the video playback window, above which displays the current video's time and date, while the lower left corner shows detailed information such as the video's latitude and longitude, speed, etc.

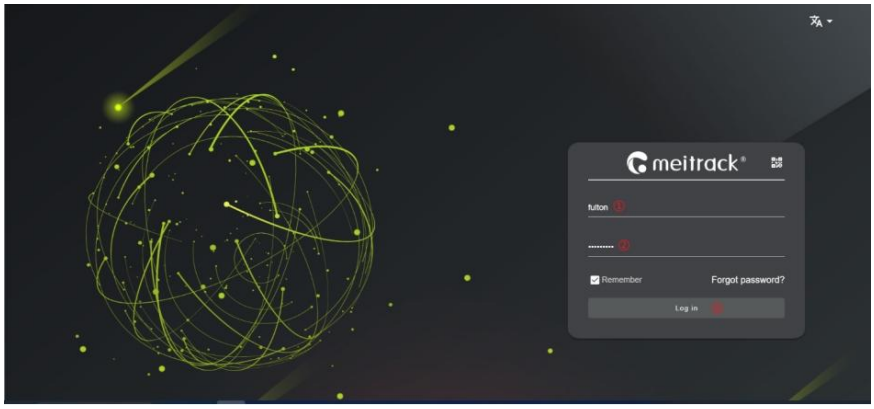
2）Below is the video playback control panel, which not only allows basic video operations such as play, pause, and fast forward, but also allows you to select multiple windows to play videos simultaneously in section ②.

3）On the left side is the video file retrieval navigation, which can be used to search and select videos from a specific date; In the date window, the dates marked in dark color in section ① indicate that there are video files stored for that day, while light-colored dates indicate that there are no video files stored; You can double-click on the date in section ① to enter the secondary page for date video retrieval in section ③. Click the plus sign on the left side of section ③ to expand the video files for different video channels. A plus sign on the left indicates that there are video files under that channel. Click the plus sign to expand the file directory for that channel, and double-click the file named with the date to play the corresponding video on the right side.

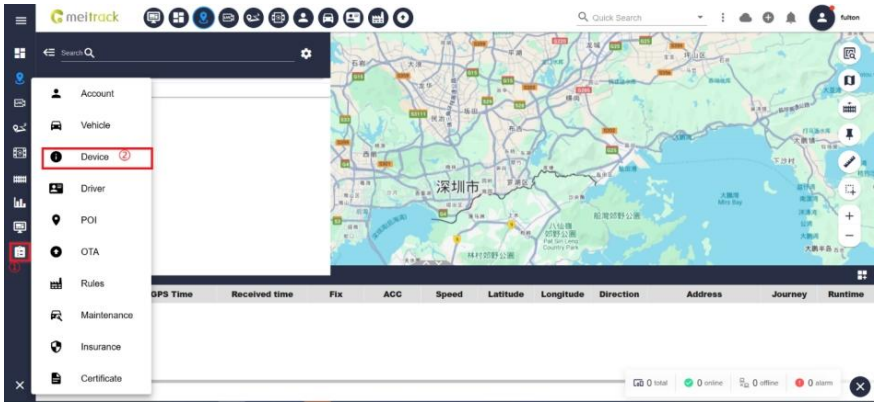
14 MS06 Platform

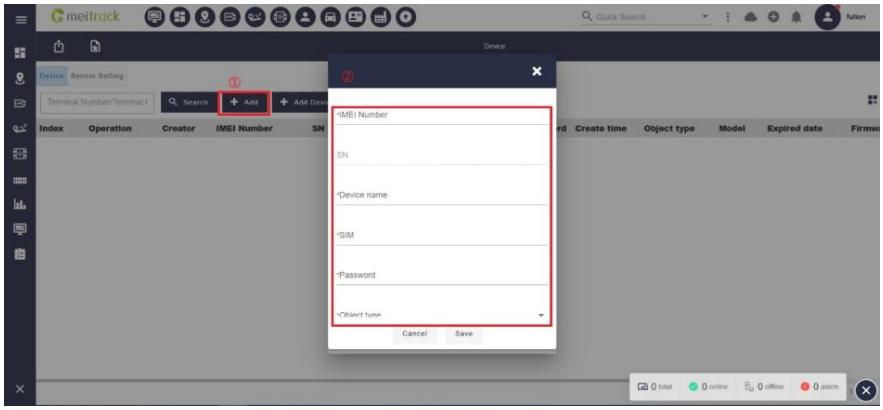
14.1 Bind Device

Enter https://ms06.trackingmate.com/loginPage to open the MS06 official platform website, then enter your account and password, and click Login



Click Device; select Add; fill in the required fields marked with *; then click save ;





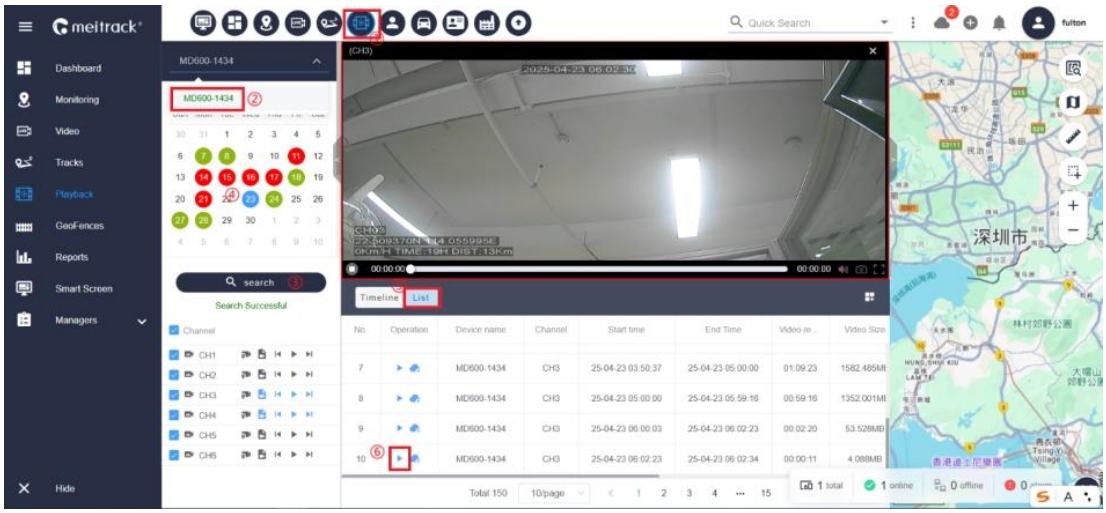
Note: If unclear, please refer to the detailed MS06 user manual or contact Meitrack technical support for assistance;

14.2 How to view live video

Click the ① icon, then double-click the desired ② video channel to view the video.

14.3 How to view playback video

Then click the icon ①, select the device name ②, click Search ③, select the date ④, choose from the list ⑤, and click Play ⑥.



Playback video viewing diagram

Note: For additional features of the MS06 platform, please refer to the MS06 platform user manual.

If you have other questions, please email us at info@meitrack.com, and we will be happy to serve you.