

MEITRACK MD833H MDVR User Guide



Change History

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1 Copyright and Disclaimer

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Document update log

Version	Date	Modifications
1.0	2023-05-12	Initial draft.
1.1	2024-11-17	Add BSD function, 10.1-inch display, sound and light alarm, and other accessories. Add app configuration method. Add AI alarm trigger content.
1.2	2026-09-09	Add server configuration procedures; Add introduction to AI alarm function; Add MD833H event function settings; Add MS06 platform content; Replace optional accessory information.

Cautions

Installation Environment

1. To extend equipment life, please install the equipment in locations with little vibration.
2. To ensure normal heat dissipation, do not install the device in a poorly-ventilated area (such as trunk), and also keep about 15 cm away from other objects on the same level.
3. The device shall be horizontally installed and protected against water, humidity and lightning; in addition, keep the vehicle still during installation to prevent damage to the device due to falling off.
4. To ensure safe operation, keep the device, camera, cables and other accessories out of reach of passengers and driver.

1. Avoid electric shock and fire

- The machine uses 11.4V-36V DC power supply, notice the polarity when wiring to avoid short circuits.
2. Before installation, disconnect the power supply of the device and wrap each unused I/O cable with adhesive tape to prevent other cables from touching the output power cable, which may cause the device to burn.
 3. Please power off the device when connecting accessories with device.
 4. Do not touch the power and the device with wet hands.
 5. Do not spray liquid on the device to prevent internal short circuit or fire.
 6. Do not put any other equipment on top of camera.
 7. Do not disassemble the housing without authorization to avoid damage or electric shock.

Transport and handling

1. Please use the original package in transport to avoid damage in transport.
2. Please keep power off in moving the device or replacing components.

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1 Product Introduction

MD833H is the first solution of its kind that adopts a high-performance AI processing chip, known as AI MDVR, with a dual-system (dual communication channel), highly stable 8-channel AHD, and 1080P high-definition vehicle-mounted hard disk video recorder. It possesses high computing power and can support AI applications such as ADAS, DMS, and BSD. The product is based on a dual system of Linux operating system and MCU OS, incorporating advanced technologies including high-performance H.264/H.265 video compression/decompression, 4G, GPS, WiFi, Bluetooth, power-off data protection, shockproof hard drive, hard drive heating, wide voltage range, and overvoltage protection. It serves as the core product of the next-generation wireless vehicle-mounted video surveillance solution. It is widely used in various fields of mobile video surveillance, such as buses, long-distance coaches, taxis, logistics vehicles, special-purpose vehicles (e.g., armored cash transport vehicles), private cars, and forklifts.

Product features:

- Supports 8 channels of AHD 720P/1080P cameras.
- Embedded with a high-performance AI video processing chip (optional AI video algorithms: ADAS, DMS).
- Supports HDD/SSD and can accommodate a maximum of 2TB hard drives, with a built-in SD card slot (supports up to 512GB).
- Utilizes UPS-like power-off protection technology, allowing it to operate for 3 to 8 seconds in the event of external power disconnection, preventing accidental damage to video files.
- "Plug and play" hard drive installation design, featuring a robust cast aluminum casing.
- Adopts an industrial-grade power chip, supporting a wide range of power input from 11.4V to 36V, suitable for demanding environments.
- Supports high\low temperature environments (the hardware is equipped with high-temperature aging testing and hard drive heating for low-temperature adaptability).
- Supports both local recording and network transmission modes.
- Built-in accelerometer for triggering alarms during abrupt turns, rapid acceleration, sudden deceleration, etc.
- Self-data protection to save data in case of abnormal shutdown.

2 Product Specifications

Power supply	
Rated voltage	DC: 11.4V~36V, Rated 12V4A
Power consumption	Start host video function about 8W
	Daytime: approx. 24W connected to 8-way camera, with display approx. 29W;
	At night: about 32W for the 8-way camera, with display approx. 37W; Connect a single camera (normal range is 50mA~100mA during the day, 200mA~250mA at night)
AI (Optional)	
AI Video	ADAS, DMS, BSD;
Storage media	
SD Cards & SSD Hard Drives	1 x SATA HDD/SSD and 1 x SD card; capacity: 2TB + 512GB (Note: SD card is not available in TF card with card holder)

System structure

System operation	Dual system operation, dual communication channels (prevent data loss)
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Audio and video

Video input	8 AHD Cameras with D1/720P/1080P arbitrary mixing; Adaptive camera resolution and standard (PAL and NTSC); Up to 8x1080P@15fps live recording;
Video output	1 VGA video output (8Pin aviation plug), default resolution 1280*720. 1 x CVBS aviation plug (level: 1.0Vp-p, impedance: 75Ω); Resolution: PAL 704*576, NTSC 704*480.
Compression standard	H.264/H.265; default: H.264
Image display	Support 1,4,8,9 image display
Audio input	8 channels for camera Mic input, requires camera to support audio; 1 x intercom handle input; 1 x 3.5MM headset input (GSM communication port);
Audio output	1 independent audio isolated output (connected to AV-OUT connector, VGA airhead connector and intercom handle connector) 1 x 3.5MM headphone port output (GSM communication port)
Audio compression	G.726/G.711a/AAC Note: If RTMP is used, G726 cannot be selected for audio. Default AAC
Video Request and Playback	Retrievable playback by channel, video type, stream type and time
Recording method	Simultaneously record the ACC, alert, sound, and video.

Frequency band

MD833H-E	GSM: B3/B8 WCDMA: B1/B8 LTE-FDD: B1/B3/B7/B8/B20/ B28A
MD833H-A	WCDMA: B2/B4/B5 LTE-FDD: B2/B4/B12
MD833H-AU	GSM: B2/B3/B5/B8 WCDMA: B1/B2/B5/B8 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE-TDD: B40
MD833H-J	WCDMA: B1/B6/B8/B19 LTE-FDD: B1/B3/B8/B18/B19/B26 LTE-TDD: B41
MD833H-G	GSM: B2/B3/B5/B8 WCDMA: B1/B2/B4/B5/B8/B6/B19 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B25/B26/B18/B19/B20/B28 LTE-TDD: B38/B39/B40/B41

WiFi\BLE\GNSS

WiFi	802.11 b/g/n, 2.4GHz, Supports STA, AP mode;
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Bluetooth	Support protocol BLE5.1 Downward compatible; Supports master/slave mode, can read Bluetooth accessories, can configure parameters through the APP
Positioning mode	Supports GPS,BD,Glonass dual mode positioning configuration
positional accuracy	2.5m
sensitivity	-162dBm
GNSS antenna	Supports antenna insertion/extraction/short circuit detection

Other

SPI memory	Built-in 64Mbit for GPRS/SMS/GPS LOG data
Working temperature	Without battery: -20°C to 70°C
Sensors	3-axis acceleration sensor (for detecting vibrations and assisting in determining movement stationary state)
I/O Port	Main line interface: Default support 8 digital inputs (configurable), 3 outputs (configurable), 1 AD (configurable), 1 CAN port, 2 RS485 ports, 5V\12V outputs; Other interfaces: 2 RS232, 1 SENSOR (1-WIRE\AD\5V\GND), 1 PWR (power\GND\ACC) (Please check the definition of the host interface for details)
Dimensions	177*162*63mm
Weight	1900g(excluding hard drives)

Certification

CE certification

Protocol

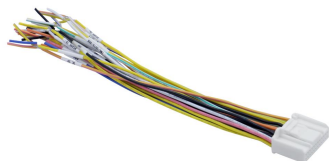
Meitrack Protocol (CCE) RTMP (Audio Video Transport Protocol, also compatible with meitrack's Audio Video Private Transport Protocol)

3 Main Device and Accessories

3.1 Main Device

MD833H MDVR	Power & ACC cable	CD download card
		

IO cable



Camera splitter (1 to 2)



USB cable



Lock key



Hard disk screw



GPS antenna



WiFi antenna



4G antenna



Bluetooth antenna



Standard	Quantity	Remarks
MD833H MDVR	1	
Power & ACC cable	1	3PIN, cable length 20cm
IO cable	1	24PIN, cable length 20cm
Camera splitter (1 to 2)	4	6pin female aviation header to 2 x 4pin male aviation header cable, cable length 20cm
USB cable	1	Connect to a PC to configure device parameters and upgrade software.
Lock key	2	Used to lock an SD card and SIM card (and power on or power off the device).
4G antenna	1	
GPS antenna	1	
WIFI antenna	1	
Bluetooth antenna	1	
Hard disk screw	4	
CD download card	1	Neutral packaging not available as standard

3.2 Optional Accessories

3.2.1 MDVR Camera options

AI Camera

DMS Telescopic Camera (ACP506)



DMS Side-mounted Camera (ACP505)



DMS Camera (ACP503)



DMS Camera (ACP507)



ADAS Wide Dynamic Range Camera
(ACP604)

ADAS Camera (ACP603)



BSD Side-mounted Camera
(ACP301)



BSD Overhead Camera (ACP504)



Install the left and right blind areas of the vehicle.

Install blind spots in front and rear of the vehicle

Waterproof Standard Camera (Outdoor)

Side-mounted (ACA301)	Waterproof Camera 720/1080P (ACA105)	Waterproof Mini Camera 1080P (ACA105)
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Waterproof Square Camera 720/1080P (ACA501)	Waterproof Square Camera 1080P (ACA503)
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Non-waterproof Standard Camera (Indoor)

Metal Shell Miniature Snail Camera 720/1080P (ACA303)



Camera extension cable (default: 3M or 5M)



Note: Standard camera cable length is generally 50cm, please adapt the corresponding camera extension cable.

3.2.2 Additional options

Optional Bluetooth external accessory

Bluetooth temperature and humidity sensor (AST101)



Bluetooth temperature sensor (AST103)



Bluetooth temperature and humidity sensor (AST104)



Bluetooth beacon (AB401)



Bluetooth beacon (AB402)



Other optional external accessories

A53 Fuel sensor (voltage AD)



A52 digital temperature sensor



Relay



iButton



Ultrasonic Fuel Sensor ASUF103 (range 100cm)



Ultrasonic Fuel Sensor ASUF104 (range 250cm)



Ultrasonic Fuel Sensor ASUF105 (range 400cm; AD analog)



Ultrasonic Fuel Sensor A76 (range 100cm, Without AD analogue)



Microphone (A58) + speaker (A57) + connector cable



RFID reader



High temperature batteries (400mA)



Sound and Light Alarm (AAL101)



Intercom (A95)

7\10.1 inch VGA

7 inch CVBS display

UPS Power Supply (APU101)



CAN Expansion Box (AEC101)



4 About the MDVR

4.1 Appearance



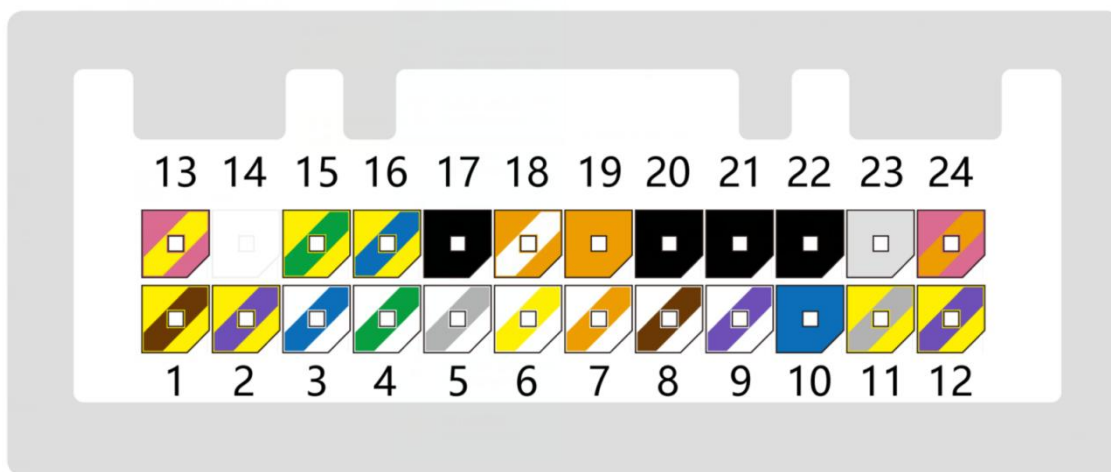
No.	Marker name	Description
①	Screws for fastening the disk enclosure	
②	Hard drive lock	To enable the recording function, ensure that the hard disk is locked after the disk enclosure is installed properly
③	USB	Upgrade interface
④	IR reception	
⑤	Audio	3.5 headphone port, with microphone and speaker for two-way

		calls and remote listening
⑥	Debug Port	Configure/debug interface
⑦	LED Lights	



No.	Marker name	Description
①	PWR	Input voltage 11.4-36V; yellow line is ACC detection line Yellow line is ACC detection line; Red line is the power input line; Black line is GND;
②	BT\4G\GPS\WIFI	BT: Bluetooth antenna interface 4G: 4G network antenna interface GPS:GPS antenna interface WIFI:WIFI antenna interface
③	VGA	VGA video output connector; connect to VGA monitor for audio and video playback
④	AV-OUT	CVBS video output interface; connects to CVBS monitor for audio and video playback
⑤	MIC&SPK	For external voice intercom input/output devices with the monitoring platform
⑥	AV-IN-1~8	AV input for 8 channels of AHD 1080P/720P/D1 cameras
⑦	RS232-1/RS232-2	For external RFID and other devices
⑧	SENSOR	For connection to fuel sensors, temperature sensors, IBUTTON or sensor box A61
⑨	IO&AD&RS485&CAN OUTPUT:5V&12V	default support 8 digital inputs (configurable), 3 outputs (configurable), 1 AD (configurable), 1 CAN interface, 2 RS485 interfaces, 5V/12V outputs;
⑩	ETH	10/100M adaptive Ethernet interface

4.2 I/O Port



Pin Number	Label	Color	Function Description
1	OUT1	Yellow/brown	Output control 1. default low level trigger (0V), open drain output (OC) when invalid Output open-drain (invalid) voltage tolerance: 40 volts maximum, 400 mA maximum current Can be set to high level trigger and PWM trigger mode Can be connected to an external relay for remote disconnection of vehicle fuel/engine power etc.
2	OUT2	Yellow/Purple	Output control 2. default low level trigger (0V), open drain output (OC) when invalid Output open-drain (invalid) voltage tolerance: 40 volts maximum, 400 mA maximum current Can be set to high level trigger and PWM trigger mode Can be connected to an external relay for remote disconnection of vehicle fuel/engine power etc.
3	IN3/OUT3/AD3	White/blue	Digital input 3, default positive trigger, configurable as negative trigger, or AD3 (0 to 30V) analogue input or OUTPUT3
4	IN4/OUT4/AD4	White/green	Digital input 4, default positive trigger, configurable as negative trigger, or AD4 (0 to 30V) analogue input or OUTPUT4
5	IN5/OUT5/AD5	White/grey	Digital input 5, default positive trigger, configurable as negative trigger, or AD5 (0 to 30V) analogue input or OUTPUT5
6	IN6/OUT6/AD6	White/yellow	Digital input 6, default positive trigger, configurable as negative trigger, or AD6 (0 to 30V) analogue input or OUTPUT6
7	IN7/OUT7	White/Orange	Digital input 7, default positive trigger, can be configured to negative trigger, or OUTPUT7
8	SPEED_IN	White/brown	Connect speed signal wire
9	IN8/OUT8	White/Purple	Digital input 8, default positive trigger, can be configured to negative trigger, or OUTPUT8
10	AD1	Blue	12-bit analogue input 1 with valid input voltage values of 0-30V For connection of external sensors, e.g. fuel sensor
11	RS485_1B-	Yellow/grey	485-Signal (MCU)

Pin Number	Label	Color	Function Description
12	RS485_1A+	Yellow/Purple	485+ signal (MCU)
13	DC_5V	Pink/yellow	5V DC output; MAX current 750MA, software controllable shutdown
14	None	None	None (reserved)
15	RS485_2B-	Yellow/green	485-signal (RS485 interface).
16	RS485_2A+	Yellow/blue	485+ signal (RS485 interface)
17	GND	Black	Ground line
18	CAN_L	Orange/White	For connection of CANBUS peripherals
19	CAN_H	Orange	For connection of CANBUS peripherals
20	GND	Black	Ground line
21	GND	Black	Ground line
22	GND	Black	Ground line
23	SOS/IN1	White	Emergency alarm input line Digital input 1, configurable for positive and negative triggering (default is SOS button, negative trigger)
24	DC_12V	Pink/Orange	12V DC output; MAX current 1.35A, software controllable shutdown

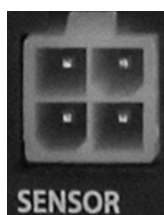
4.3 RS232



1	3
5V(+)	RX
2	4
GND(-)	TX

Pin Number	Description
1	Power output Output voltage: 5 V
2	Ground wire
3	RX
4	TX

4.4 SENSOR



1	3
12V(+)	AD2
2	4
GND(-)	1-WIRE

Pin Number	Description
1	Power output Output voltage: 12V
2	Ground wire
3	12-bit analogue input 1 with valid input voltage values of 0-30V For connection of external sensors, e.g. fuel sensor
4	TTL3.3V level Connect to the A52 digital temperature sensor or iButton by default by using the A61 sensor box.

5 LED Lights



Identifier	Indicative meaning	Color	Status	Description
GPS	GPS LED indicator	Blue	Steady on	A button or an input is triggered.
			Blink fast (once every 0.1 seconds)	The MDVR is being initialized, or the battery power is low.
			Blink fast (0.1 seconds on and 2.9 seconds off)	A GPS signal is received.
			Blink slowly (1 second on and 2 seconds off)	No GPS signal is received.
SYS	Network status LED indicator	Green	Steady on	There is an incoming call, or the subscriber you dialed is busy now.
			Blink fast (once every 0.1 seconds)	The MDVR is being initialized.
			Blink fast (0.1 seconds on and 2.9 seconds off)	A signal is received from a base station (connected to a mobile network).
			Blink slowly (1 second on and 2 seconds off)	No signal is received from a base station (not connected to a mobile network).
VLOSS	Video lost LED indicator	Red	Steady on	All AV inputs are not connected to cameras.
			Blink suddenly (once every 5 seconds; indicator on: 100 ms)	One AV input is not connected to a camera.
			Blink suddenly (twice every 5 seconds; indicator on: 100 ms; interval: 300 ms)	Two AV inputs are not connected to cameras.

			Blink suddenly (3 times every 5 seconds; indicator on: 100 ms; interval: 300 ms)	Three AV inputs are not connected to cameras.
			Blink suddenly (4 times every 5 seconds; indicator on: 100 ms; interval: 300 ms)	Four AV inputs are not connected to cameras.
			Blink suddenly (5 times every 5 seconds; indicator on: 100 ms; interval: 300 ms)	Five AV inputs are not connected to cameras.
			Blink suddenly (6 times every 5 seconds; indicator on: 100 ms; interval: 300 ms)	Six AV inputs are not connected to cameras.
			Blink suddenly (7 times every 5 seconds; indicator on: 100 ms; interval: 300 ms)	Seven AV inputs are not connected to cameras.
			Steady off	All AV inputs are connected to cameras.
HDD	Hard disk LED indicator	Green	Blink fast (frequency for writing data)	A storage disk is detected, and audio and video data is written into the storage disk.
			Blink suddenly (once every 5 seconds; indicator on: 100 ms)	A storage disk is detected, but no data is written into the storage disk.
			Steady off	No storage disk is detected.
SD	SD card LED indicator	Green	Blink fast (frequency for writing data)	An SD card is detected and there is written audio and video data in the SD card.
			Blink suddenly (once every 5 seconds; indicator on: 100 ms)	An SD card is detected and no data is written into the SD card.
			Steady off	No SD card is detected.
4G	4G LED indicator	Green	Blink suddenly (once every 5 seconds; indicator on: 100 ms)	There is a 4G module, but no data is sent.
			Blink fast	4G data is sent and received normally.
			Steady off	There is no 4G module.
WIFI/BT	WIFI/BT LED indicator	Green	Blink suddenly (once every 5 seconds; indicator on: 100 ms)	There is a WiFi module, but no data is sent.
			Blink fast	WiFi data is sent and received normally.
			Steady off	There is no WiFi module.
PWR	Power LED indicator	Red	Steady on	The ACC is on and the device is locked.
			Steady off	The ACC is off and the device is unlocked.

6 Fast Installing

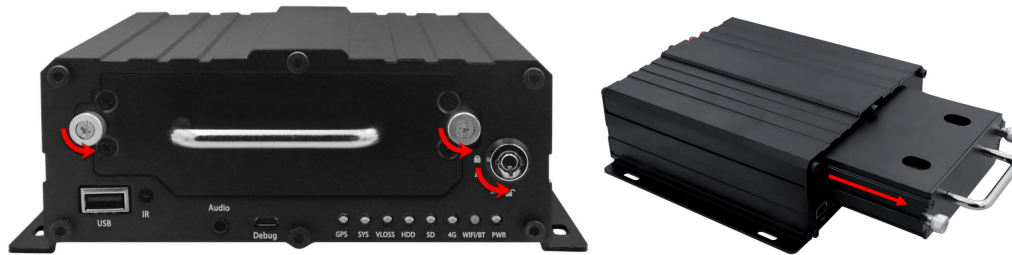
Perform the following 5 steps to fast install:

- 1) Loosen the screws, insert the key to open the hard disk lock, pull out the disk enclosure, and install a hard disk.
- 2) Insert the SIM card into the SIM card slot. (You will see the card slot after pulling out the hard disk.)
- 3) Install an SD card as required.

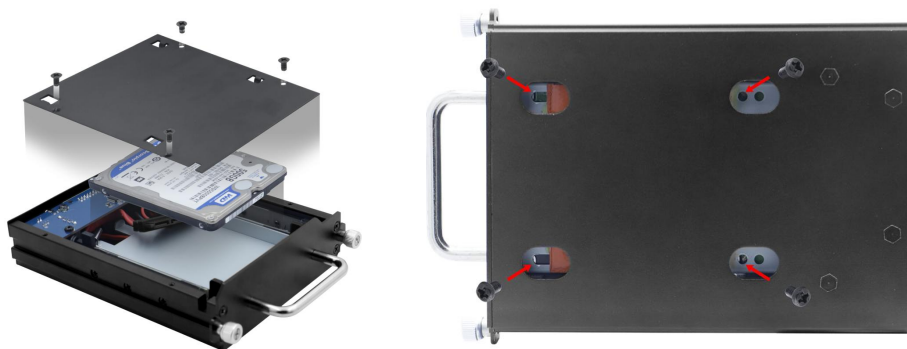
- 4) Connect four cameras, the display, handset, GSM antenna, WiFi antenna and GPS antenna,Bluetooth antenna
- 5) Connect the power cable

6.1 Installing the MDVR

- (1) Loosen the screws, insert the key to open the hard disk lock, and pull out the hard disk. (If the MDVR does not have a hard drive installed, please install the hard drive yourself.)



- (2) Open the upper cover of the disk enclosure by using a screwdriver, and then install a hard disk.



- (3) Install a SIM card and a SD card, and then lock the hard disk. **(Note: You must use the key to lock the hard disk after putting the hard disk back. Otherwise, the MDVR cannot be started.)**



- (4) Connect eight cameras, the display, handset, GPS antenna, GSM antenna, WiFi antenna, Bluetooth antenna and power cable.

Plug the power cable into the PWR interface.

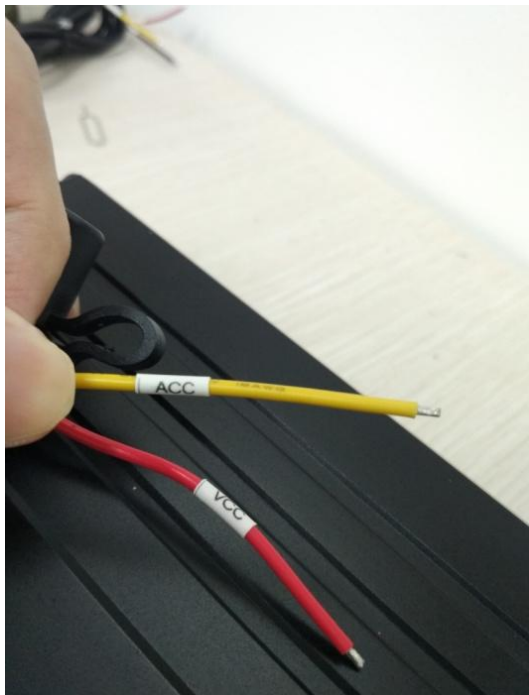
Connect cameras 1–8 to AV-IN1–8 interfaces respectively.

Connect the display to the AV-OUT interface or the handset to the MIC&SPK interface.

Connect the WiFi antenna, GPS antenna, and 4G antenna to the MDVR. (If the WiFi antenna is not connected, the WiFi function will be unavailable.)



(5) Supply power to the MDVR and connect the external power supply to the ACC cable. **(Note: To enable the recording function, ensure that the ACC cable is connected to the positive terminal of the power supply and the hard disk is locked.)**



(6) After the external power supply is connected, the initialized MDVR will automatically record videos, and the display will be turned on automatically and play live videos.

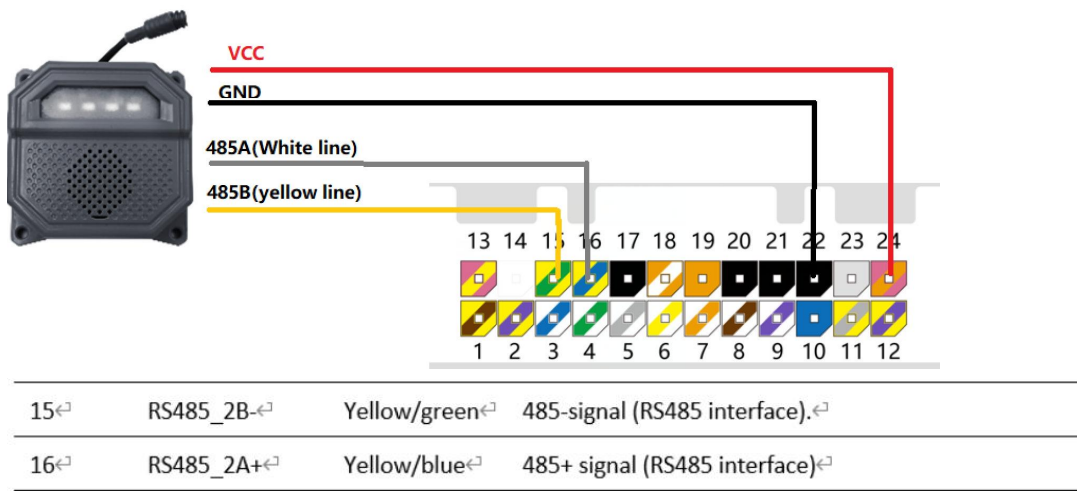


Note: There are two types of displays available, that is, the display with an AV-OUT interface and the display with a VGA interface. Users can select one or two displays as required.

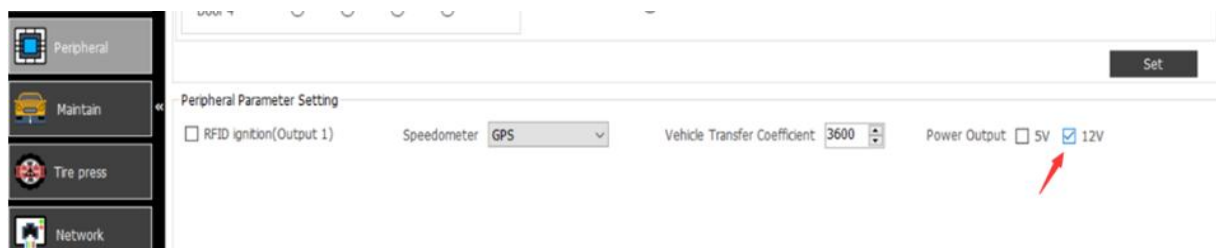
7 Other Accessories Installation

7.1 Install Sound and Light Alarm

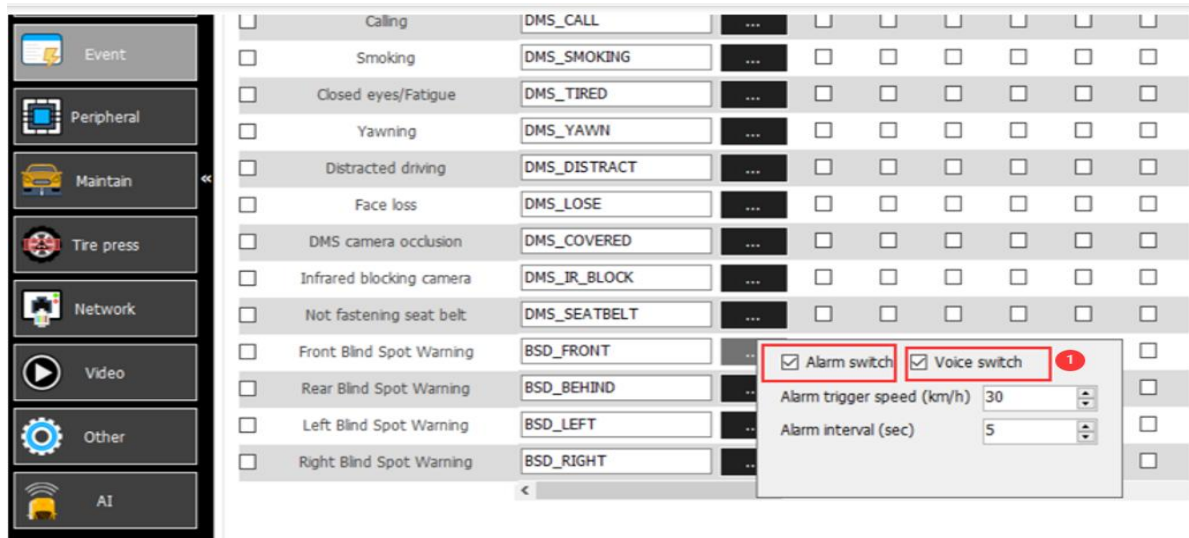
Please install the sound and light alarm and MD833H according to the connection diagram below.



After confirming that the I/O wiring is correctly connected to the sound and light alarm, turn on the 12V power supply through Meitrack Manager.



With event authorization, turn on the BSD alarm switch and sound switch, as well as set the alarm time and trigger the "less than speed" value.



8 MS06 Server Configuration Steps

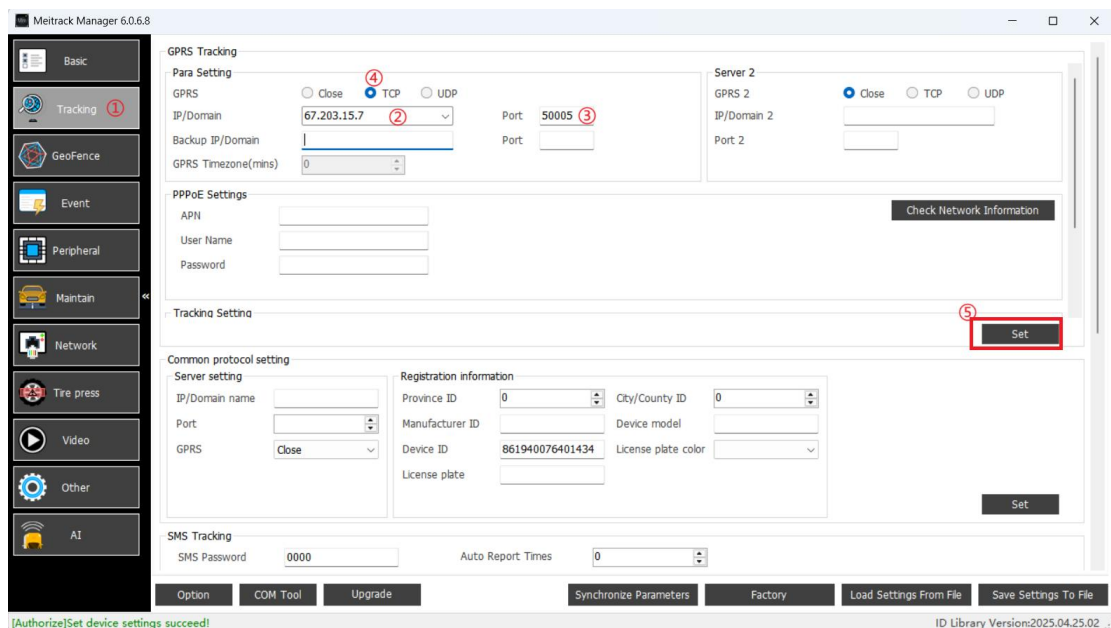
Single Server, Dual Server, JTT 808\JTT 1708 Server

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

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

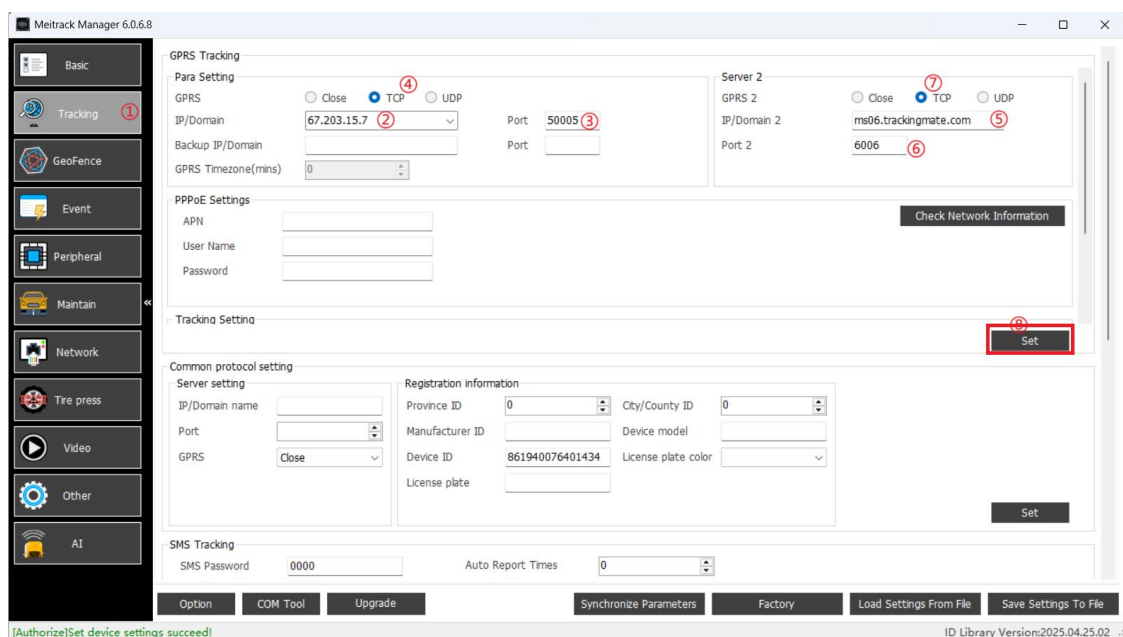
8.1 Single Server

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.



8.2 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.



8.3 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.

Meitrack Manager 6.0.6.9

Basic

Tracking 1

GeoFence

Event

Peripheral

Maintain

Network

Tire press

Password

Tracking Setting

Protocol Auto Event Report

GPRS Mode Mode0 Number of GPRS tracking reports 0 GPRS Log Interval(secs) 0

GPRS Interval 30 X 1 secs GPRS Interval(ACC Off) 60 X1 secs

Set

Common protocol setting

Server setting

IP/Domain name 2 MS06.trackingmate.c

Port 3 8506

GPRS 4 TCP

Registration information

Province ID 0 City/County ID 0

Manufacturer ID Device model

Device ID 861940076401434 License plate color

License plate

Set 5

9 APP Settings

9.1 APP Download MT Manager + APP

Search for “ MT Manager + ” APP in the Google Play Store or App Store, download and install.

MT Manager+

meitrack group

2.9★
35 reviews

50K+
Downloads

3+
Rated for 3+ ©

Install



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



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

9.2 APP Connects to MD833H

9.2.1 Enable Device Wi-Fi Hotspot via Meitrack Manager

Connect to Meitrack Manager to enable the MD833H WiFi hotspot; Enter the name and password of the MD500S WiFi hotspot, then click settings;

Hotspot Settings

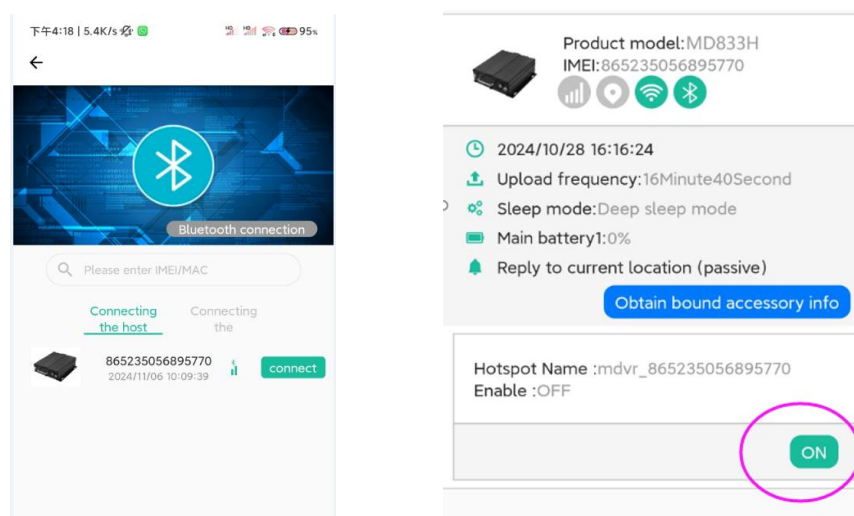
☒ Enable Hotspot

SSID

Key

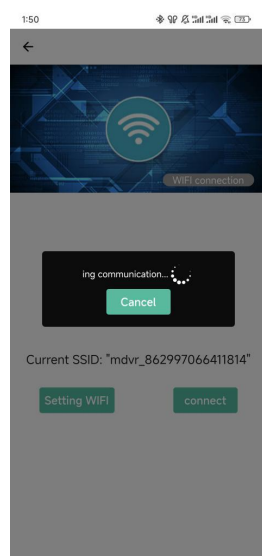
9.2.2 Enable Device Wi-Fi Hotspot via MT Manager+

As shown in the picture below, click on the Bluetooth function in the app, search for the device's Bluetooth through the app, and connect to it to enable the Wi-Fi hotspot function.



9.2.3 Enter Configuration Center by Connecting to Device Wi-Fi Hotspot via MT Manager +

Open the WiFi settings interface on your phone and connect to the MD833H WiFi hotspot



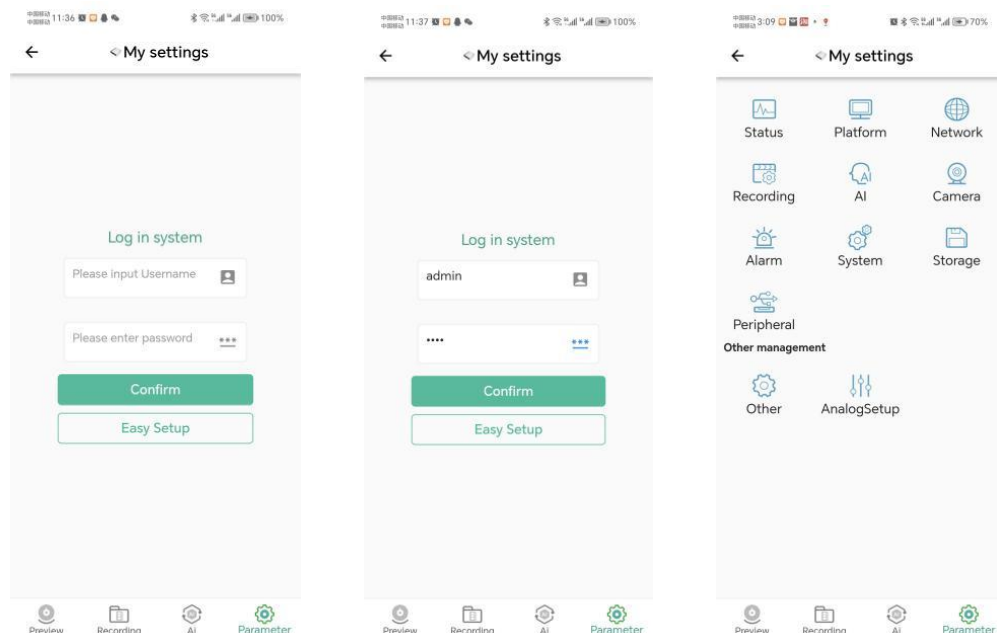
Note:

1. The APP needs to activate ACC when connecting to MD500S.

2. When the device is enabling the WiFi hotspot, it will not be able to use WiFi to upload data.

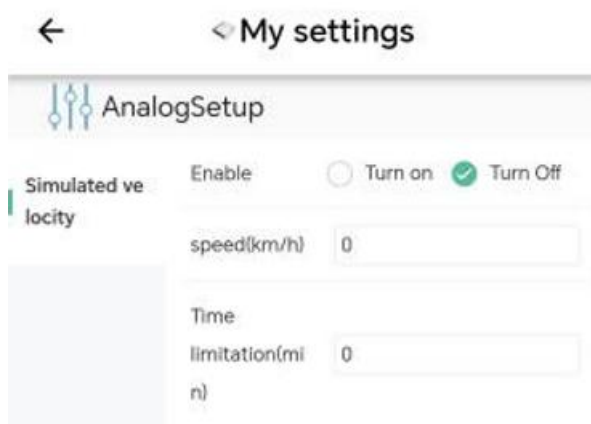
9.3 Configure parameters using MT Manager + APP

Click the icon on the bottom tab bar to switch to the parameter settings interface; Click the account input box and enter admin, with the default password 0000, as shown in the image below:



9.4 Enable simulated speed

For indoor testing of ADAS,DMS, and BSD enable simulated speed as shown in the image below;

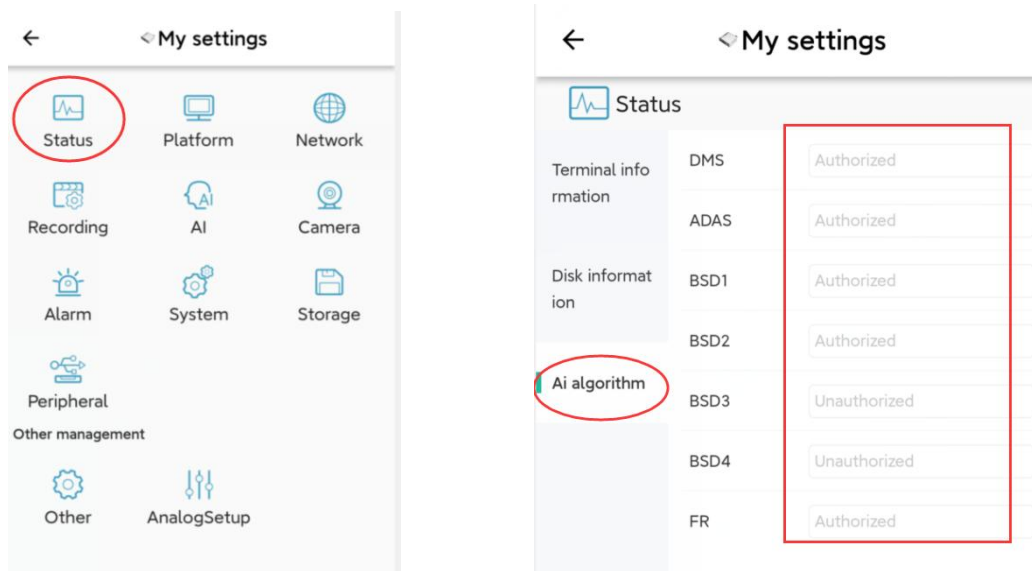


Parameter	Instructions
Enable	Switch option for simulated speed
Speed (Km/h)	The device automatically simulates the current driving speed to trigger certain conditional event feedback.
Duration (min)	The duration for which the simulated speed is enabled to prevent forgetting to turn off the simulated speed, which could lead to false information during use; 0 means the simulated speed is always on and does not turn off;

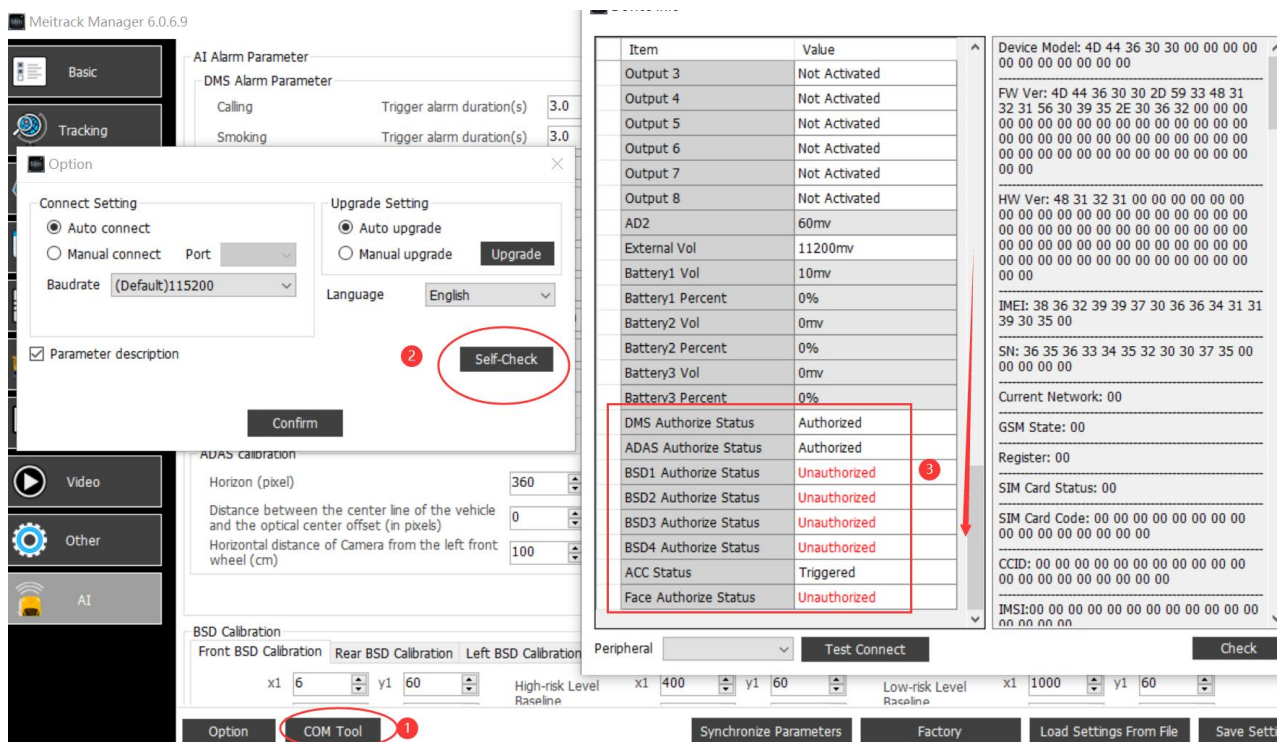
10 AI alarm settings

10.1 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.



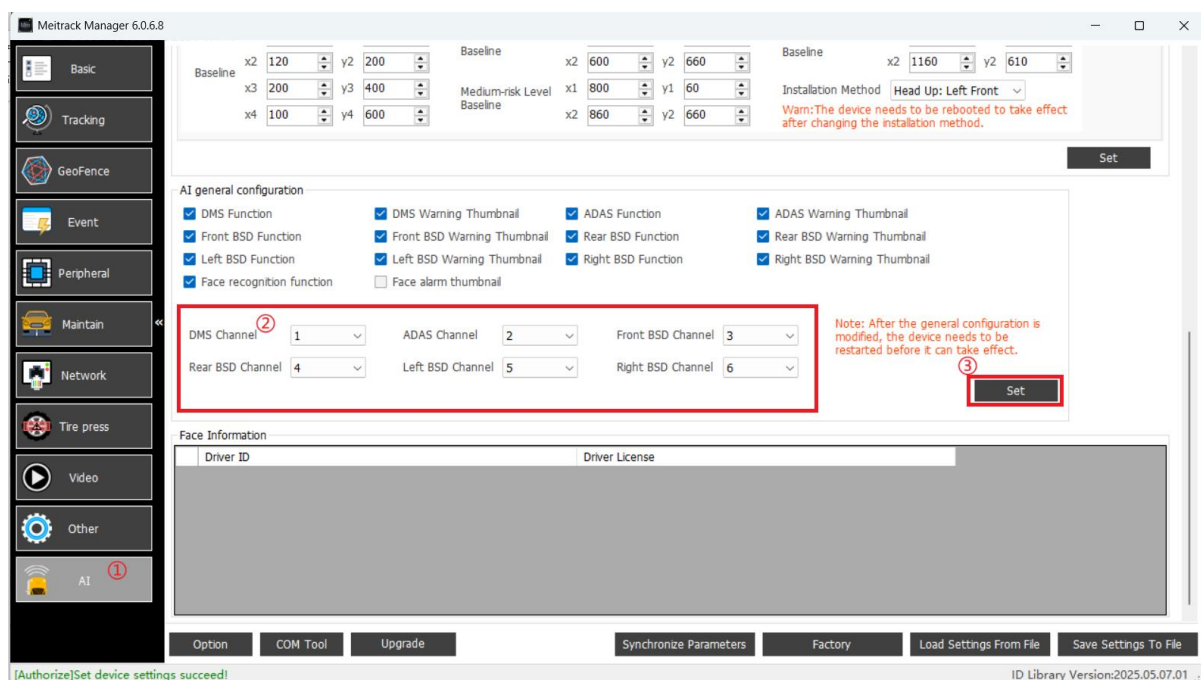
2. Or, as shown in the following screenshot, use the Meitrack Manager configuration tool to check whether the AI algorithm has been activated.



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

10.2 AI Function Video Channel Configuration

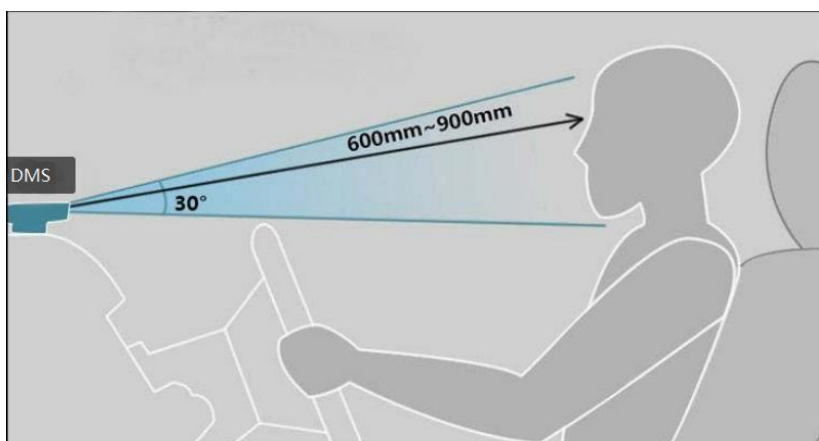
In MM, click AI Settings ①, select the desired AI function channel number ②, then click Set to apply the configuration ③.



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

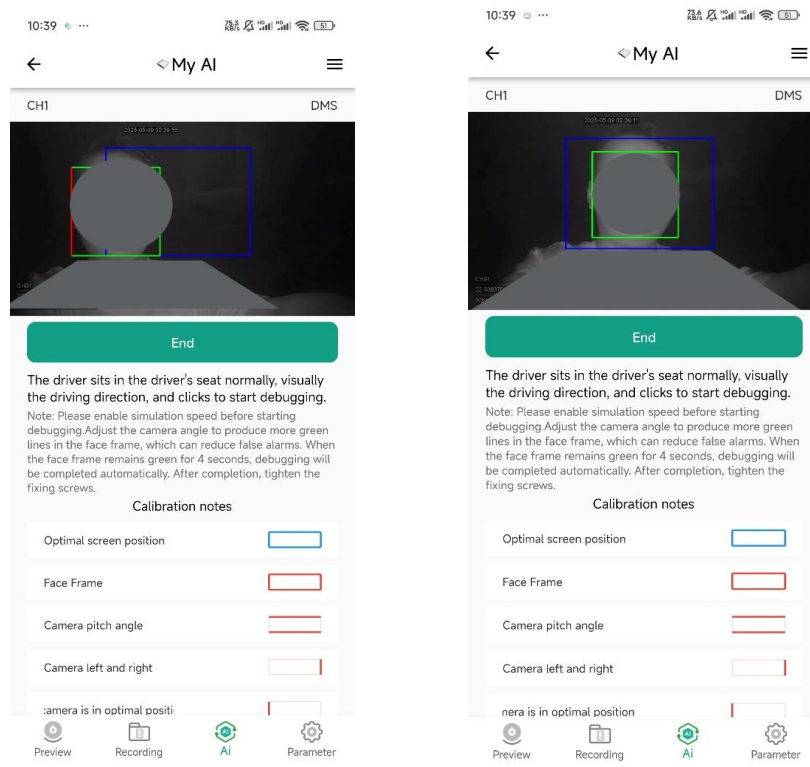
10.3.1 Installation and calibration of the DMS camera.

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:



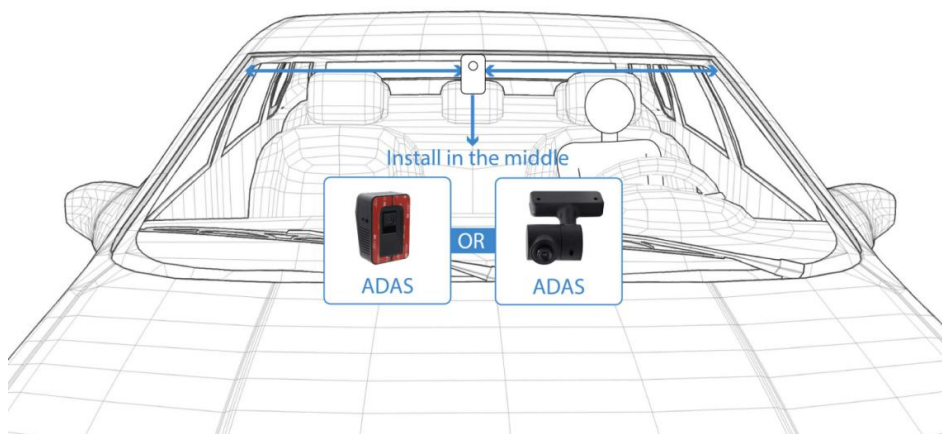
Calibration adjustments can be performed via MT Manager +, as shown in the following image:

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.



10.3.2 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:



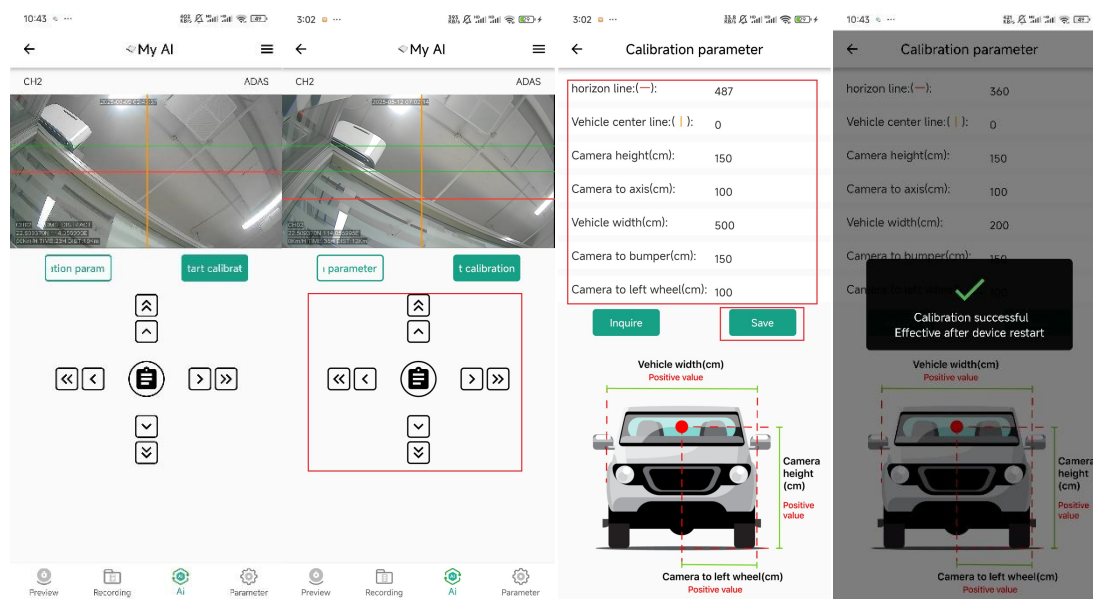
Note: After installation, adjustment and calibration must be performed using MT Manager+ to enhance ADAS accuracy.

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.

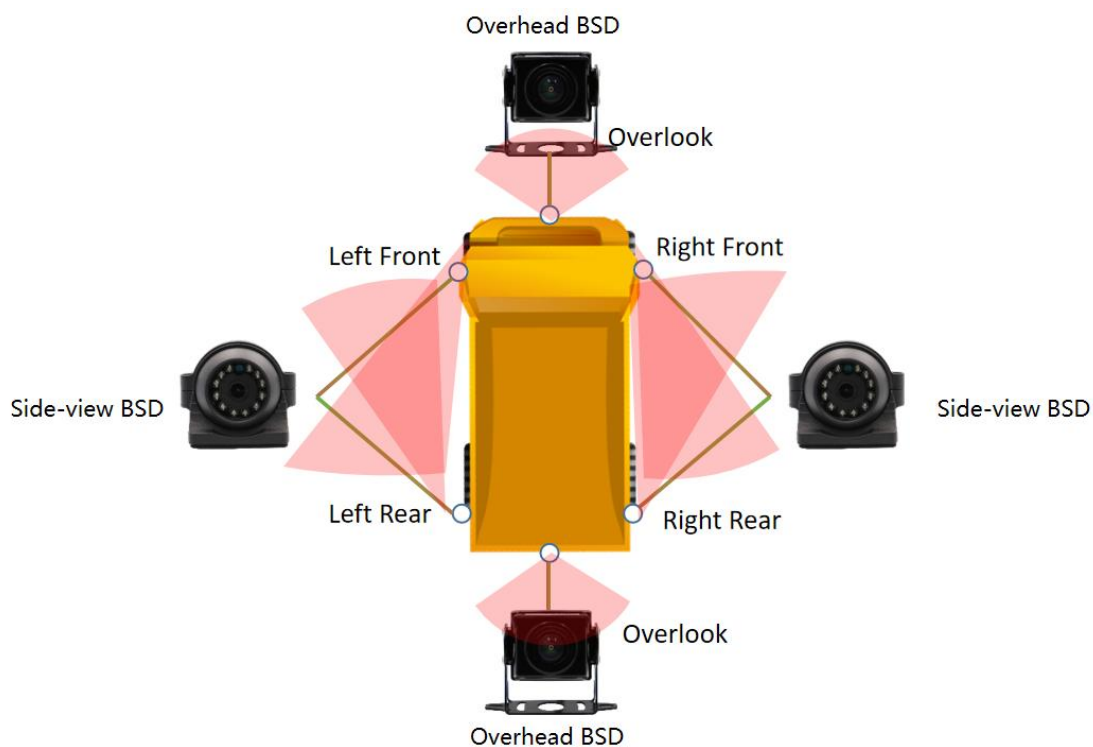
Second method: Click the button and drag the red horizontal line to the position where the sky and ground disappear (the green line indicates the range). The yellow vertical line represents the road centerline.

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



10.3.3 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.



BSD Calibration

Front BSD Calibration				Rear BSD Calibration				Left BSD Calibration				Right BSD Calibration											
Baseline								High-risk Level Baseline								Low-risk Level Baseline							
x1	6	y1	60	x1	400	y1	60	x1	1000	y1	60	x1	400	y1	60	x1	1000	y1	60				
x2	120	y2	200	x2	600	y2	660	x2	1160	y2	610	x2	600	y2	660	x2	1160	y2	610				
x3	200	y3	400	x1	800	y1	60	Installation Method: Overlook															
x4	100	y4	600	x2	860	y2	660	Warn: The device needs to be rebooted to take effect after changing the installation method.															

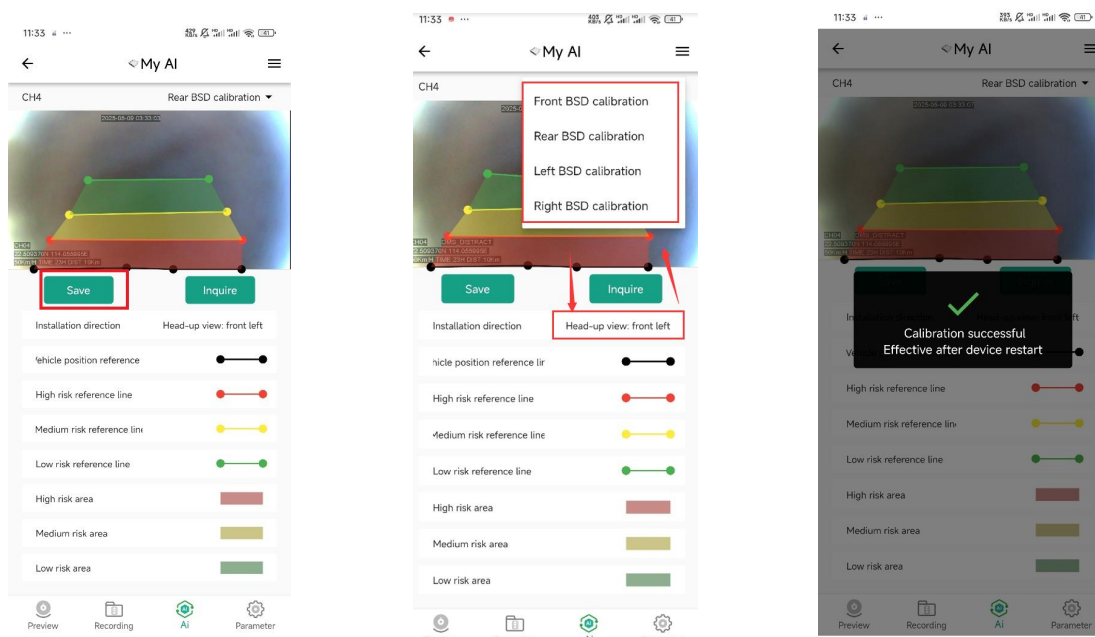
AI general configuration

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



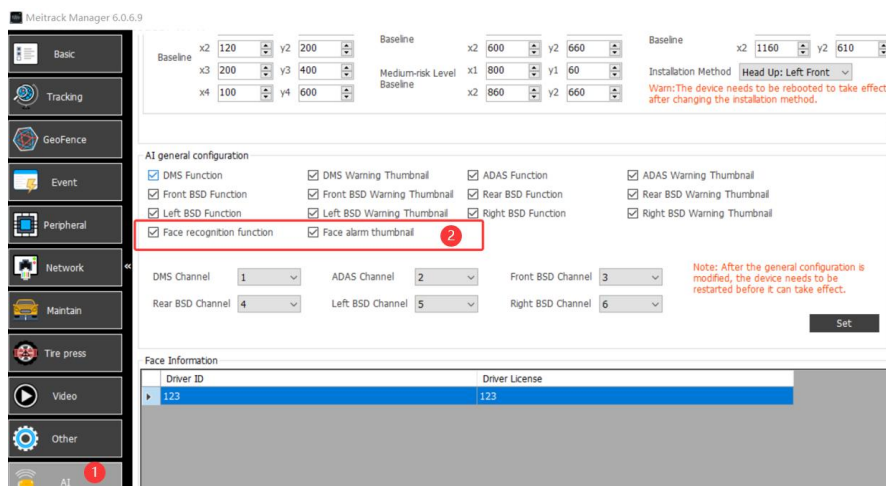
2. Regarding the configuration of the BSD function in the MT Manager + APP.

- (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.



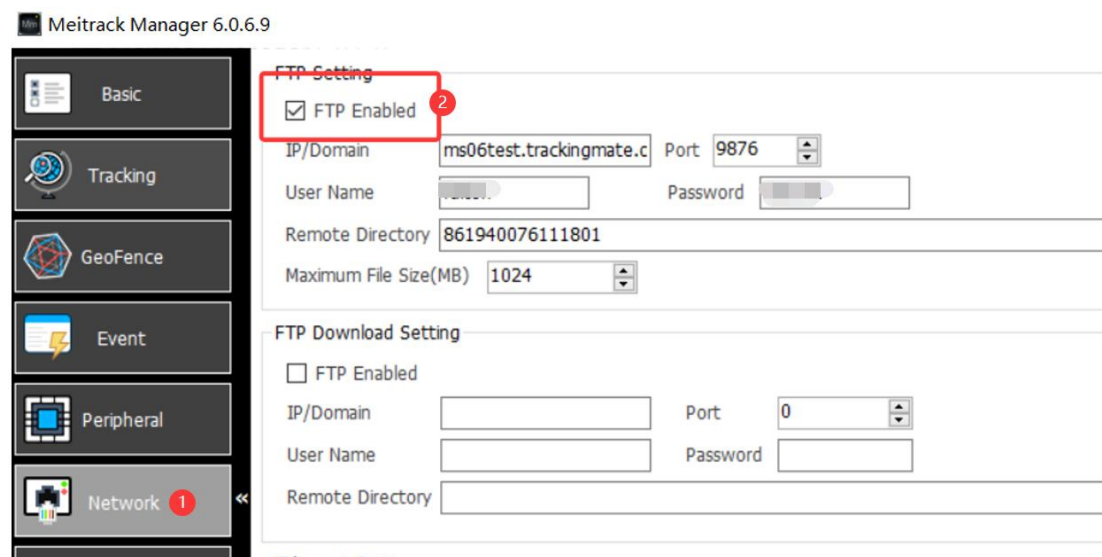
10.3.4 Facial Recognition Function

1.Enable the facial recognition function



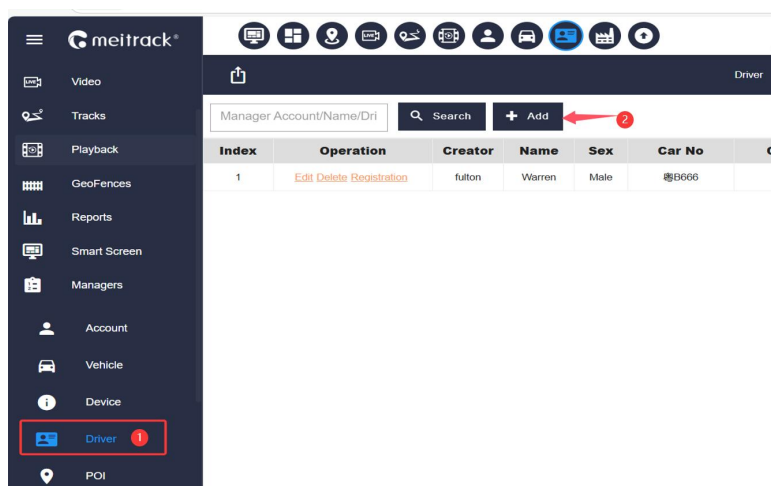
Note: Please verify if the device has activated the facial recognition AI algorithm.

2. Set up an FTP server for downloading the facial image data.

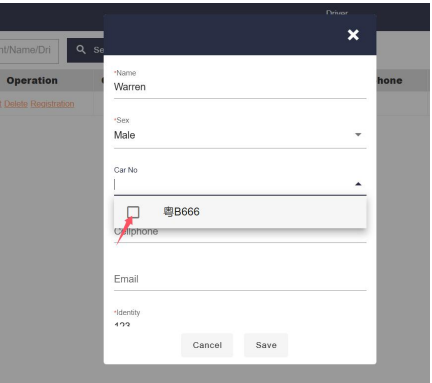


3. Add the face image to the MS06 platform, which will be used for the device to download the face image via the FTP server.

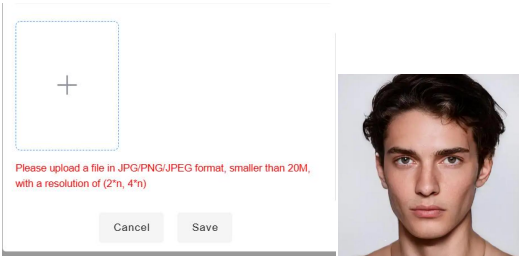
Refer to the following steps as shown in the figure.



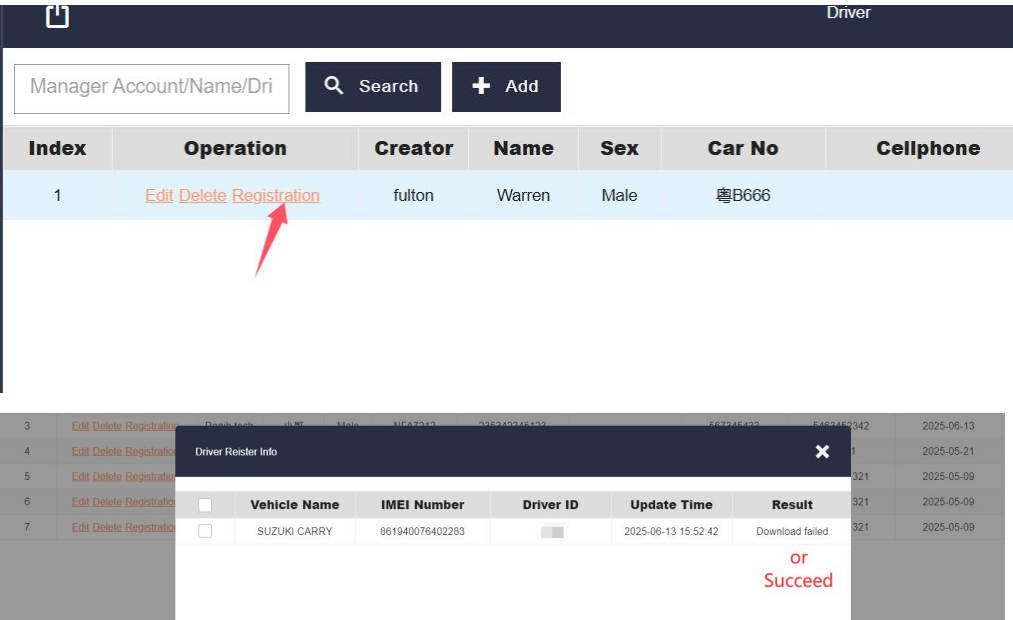
4. Bind the driver to the vehicle (this binding process requires the use of a facial recognition device). One driver can bind multiple vehicles.



5. Upload the face image. It must be a frontal photo. Click "Save". As shown in the picture below.



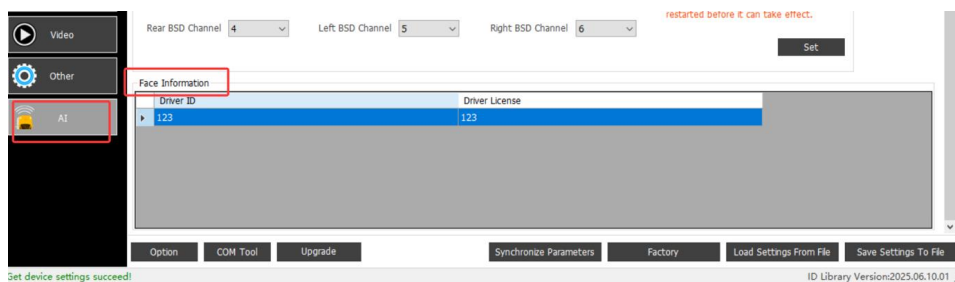
6. Confirm the status of face registration. If it shows as successful, it indicates that the device has downloaded the face image data and can now be used for face recognition functionality.



Index	Operation	Creator	Name	Sex	Car No	Cellphone
1	Edit Delete Registration	fulton	Warren	Male	粤B666	

Vehicle Name	IMEI Number	Driver ID	Update Time	Result
SUZUKI CARRY	861940076402283		2025-06-13 15:52:42	Download failed

7. We can check MeitrackManager to confirm that the facial information has been downloaded to the device.



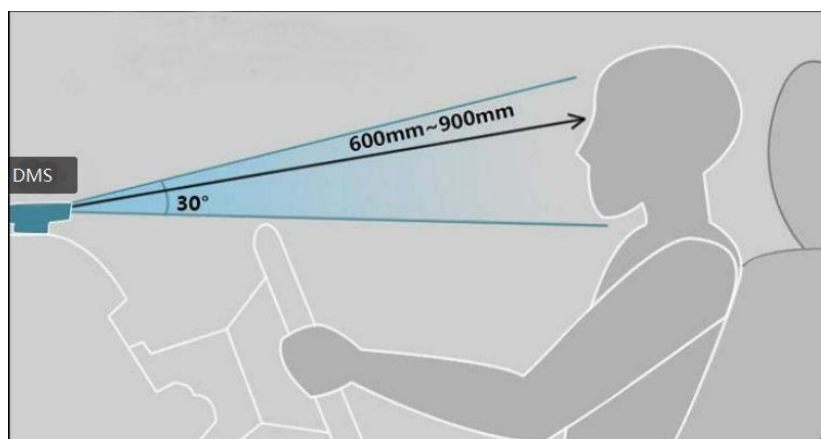
8. Once the engine is started, the DMS camera can perform facial recognition within one minute and upload the facial recognition event to the server.

Data Details						
No.	Device Name	GPS Time	Received Time	Event Name	Event Details	Position
1	MD833H-5922	2025-06-11 18:06:28	2025-06-11 18:06:29	Seatbelt Not Buckled		中国广东省深圳市福田...
2	MD833H-5922	2025-06-11 18:06:27	2025-06-11 18:06:27	Harsh Acceleration	-	中国广东省深圳市福田...
3	MD833H-5922	2025-06-11 17:42:23	2025-06-11 17:42:24	GPS Signal Received	-	中国广东省深圳市福田区
4	MD833H-5922	2025-06-11 17:42:14	2025-06-11 17:42:15	GPS Signal Lost	-	中国广东省深圳市福田区
5	MD833H-5921	2025-06-11 17:42:09	2025-06-11 17:42:10	GPS Signal Received	-	中国广东省深圳市福田区
6	MD833H-5922	2025-06-11 17:41:49	2025-06-11 17:41:50	GPS Signal Lost	-	G354+XFP, Ruixiang
7	MD833H-5922	2025-06-11 17:40:07	2025-06-11 17:40:10	GPS Signal Received	-	G354+W6V 福田区 中...
8	MD833H-5922	2025-06-11 17:39:59	2025-06-11 17:40:10	Face Recognition		G354+W89 福田区 中...
9	MD833H-5922	2025-06-11 17:39:41	2025-06-11 17:40:10	CH6 Video Loss	-	G354+W89 福田区 中...

10.4 Calibrate ADAS and DMS through the APP

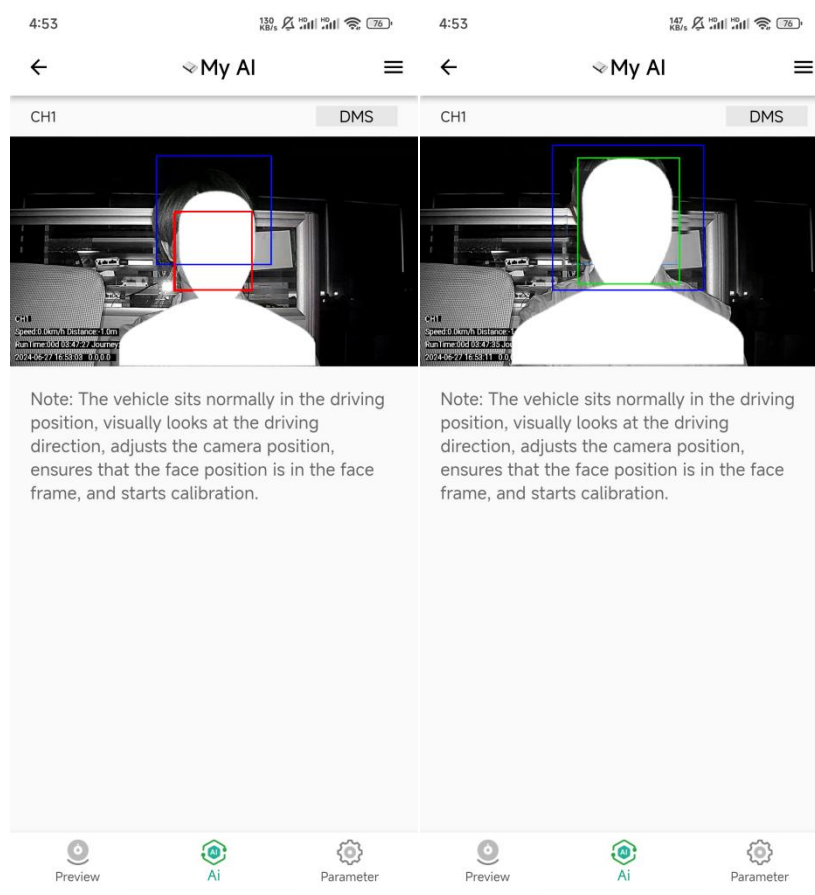
10.4.1 Installation and calibration of the DMS camera

The DMS should be installed as high as possible directly in front of the driver, with an angle not exceeding 30 degrees. The main unit should not be above eye level, but also not lower than 30 degrees below the line of sight. The lens should be 60cm-90cm away from the eyes. Additionally, the maximum horizontal angle should not exceed 30° to the left or right of the driver, as shown in the example image below:



Calibration can be adjusted through MT Manager +, as illustrated in the following image:

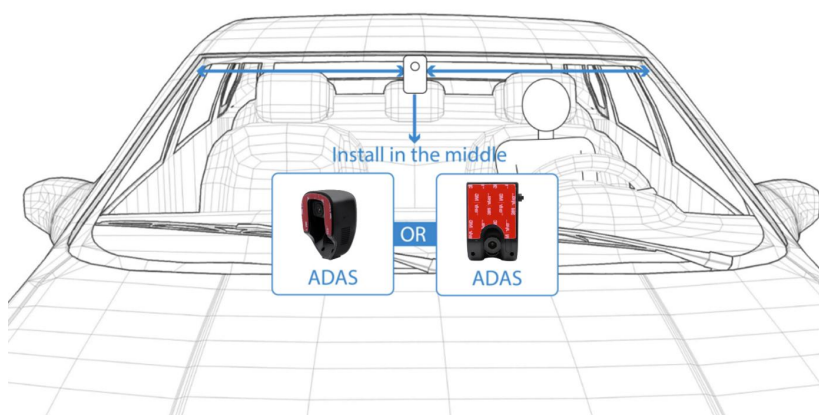
The blue box indicates the fixed DMS detection area, the red box indicates a detected face that is out of range, and the green box indicates a detected face that is within range and can be used normally. All major facial features must be fully within the blue box for the face box to be green, indicating successful calibration.



Note: The app is only used during the actual installation to adjust the camera, aiming to get as close as possible to the calibration position, which helps the AI algorithm achieve optimal accuracy.

10.4.2 Installation and Calibration of ADAS Camera

It should be installed in the center of the windshield as much as possible without affecting the driver's field of vision. The example image is as follows:



Note: After installation, adjustments and calibrations need to be made through MT Manager + to improve the accuracy of ADAS.

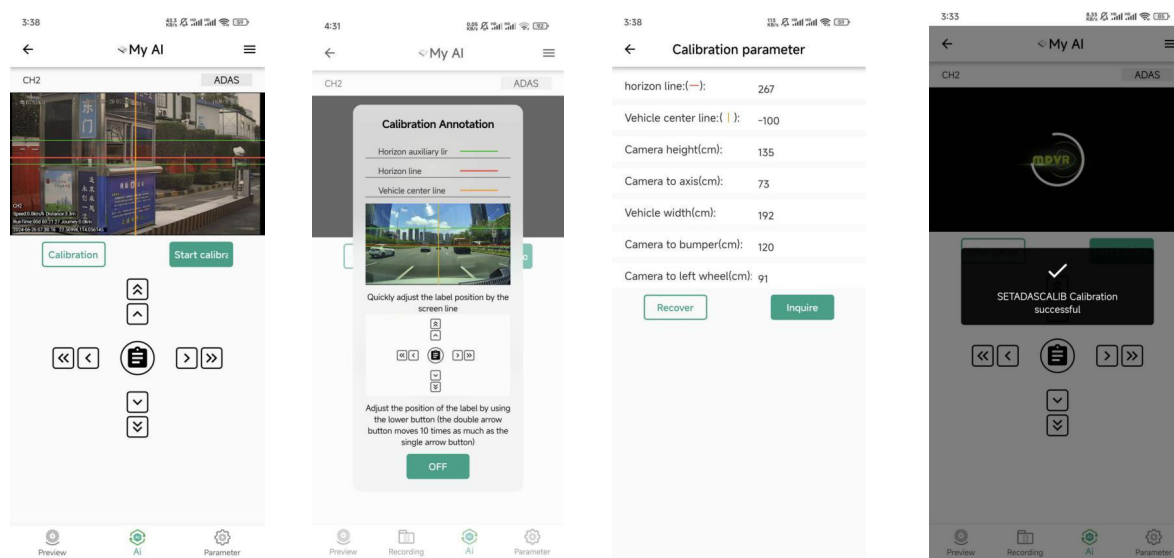
There are three methods to calibrate ADAS. Calibration can be performed once the ADAS position is confirmed:

First method: Drag the red horizontal line to the position where the ground disappears (the green line indicates the range), and

the yellow vertical line indicates the position of the road center line.

Second method: Click the button to drag the red horizontal line to the position where the ground disappears (the green line indicates the range), and the yellow vertical line indicates the position of the road center line.

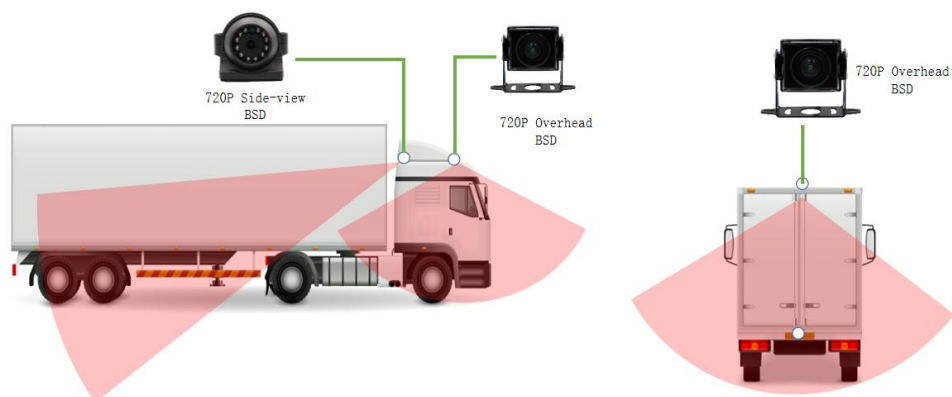
Third type: Setting the calibration parameters for ADAS. Note that when modifying the parameter settings, you must manually return using the back button in the upper left corner and click the green start calibration button to confirm the parameters before they will be saved.



Note: If the ADAS parameter settings differ significantly from the actual values, it will affect the accuracy of the ADAS.

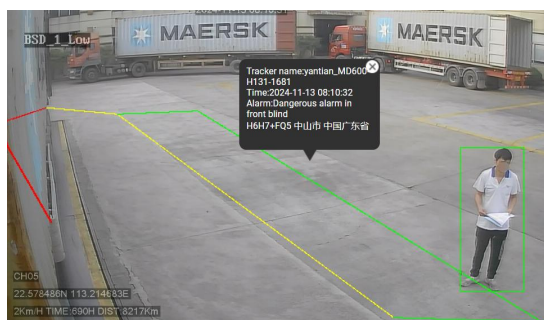
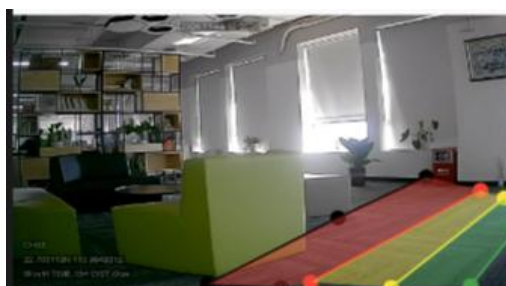
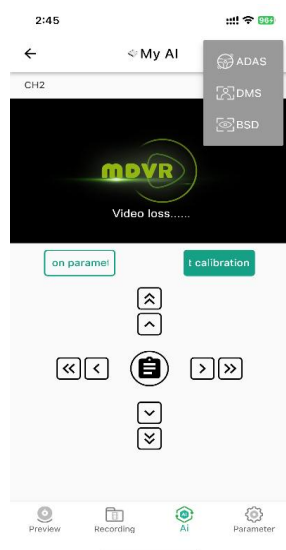
10.4.3 Installation and Calibration of BSD Camera

The BSD camera is divided into front-facing and downward-facing cameras. The side-mounted cameras are used for pedestrian detection when detecting left or right rear tire turns. The downward-facing camera is used for detecting front, rear, or left-right blind spots.

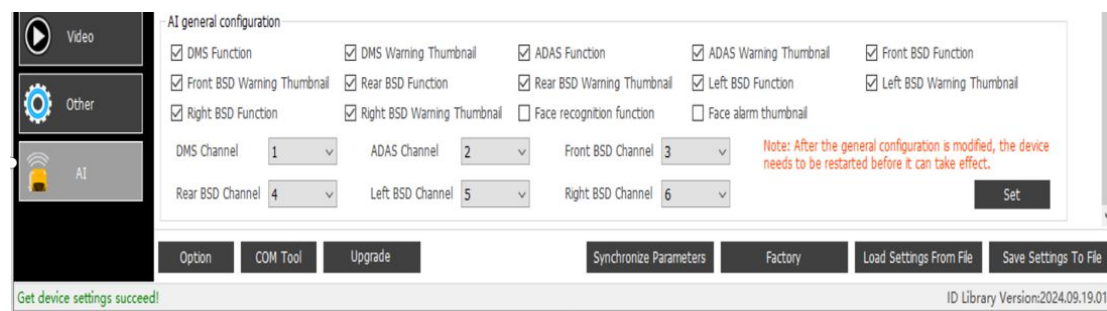




After connecting to the app, select BSD and set the corresponding detection area.



Notes: The AI algorithm can be enabled or disabled through Meitrack Manager.



11 Introduction to AI Alarm Function

This device uses machine vision technology based on video analysis to automatically identify road risks and unsafe driving behaviors of the driver. Any detected events will trigger an audible 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.

11.1 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 pedestrians
	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 blocking lens	Do not block the DMS IR
	DMS camera covered	Do not block the DMS lens
BSD	BSD-Front	danger, pedestrian ahead
	BSD-Behind	danger, pedestrian behind
	BSD-Left	danger, pedestrian on the left
	BSD-Right	danger, pedestrian on the right

Trigger conditions and sensitivity

Alarm Type	Trigger speed (Default)	Sensitivity		
		High	Medium	Low
Left lane departure	> 50	Sensitivity: 0.3	Left lane departure	> 50
Right lane departure	> 50	Sensitivity: 0.3	Right lane departure	> 50
Forward Collision Warning	> 30	TTC = 4.6s	Forward Collision Warning	> 30
Pedestrian collision	> 30	TTD = 3.0s	Pedestrian collision warning	> 30

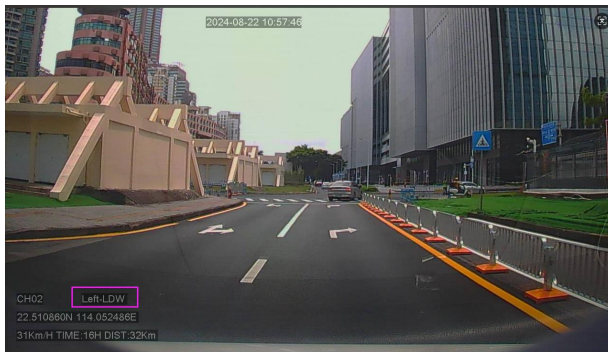
warning				
Distance Detection	> 30	TTD = 2.0s	Distance Detection	> 30
Smoking	> 10	Alarm Trigger Duration: 2s	Smoking	> 10
Calling	> 10	Alarm Trigger Duration: 2s	Calling	> 10
Distraction Warning	> 10	Alarm Trigger Duration: 2s	Distraction Warning	> 10
Drowsiness	> 10	Alarm Trigger Duration: 2s	Drowsiness	> 10
Yawning	> 10	Alarm Trigger Duration: 1.5s	Yawning	> 10
Driver Absence Detected	> 10	Alarm Trigger Duration: 2s	Driver Absence Detected	> 10
Seat belt not fastened	> 10	Alarm Trigger Duration: 2s	Seat belt not fastened	> 10
IR block	> 10	Alarm Trigger Duration: 2s	IR block	> 10
DMS camera covered	> 10	Alarm Trigger Duration: 5s	DMS camera covered	> 10
BSD	< 30	Currently, the high, medium, and low sensitivity levels are the same.		

11.2 ADAS Function

11.2.1 Lane Left Deviation Alarm

Real-time identification of lane deviation behavior during driving. If there is unintentional lane deviation 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 deviation alarm.



11.2.2 Lane Right Deviation Alarm

Real-time identification of lane deviation behavior during driving. If there is unintentional lane deviation 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 deviation alarm.



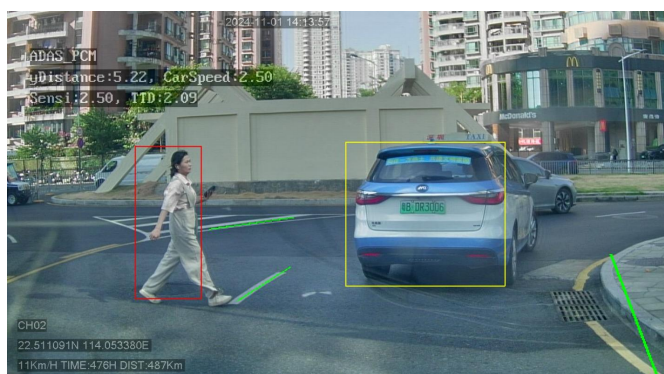
11.2.3 Front collision warning

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



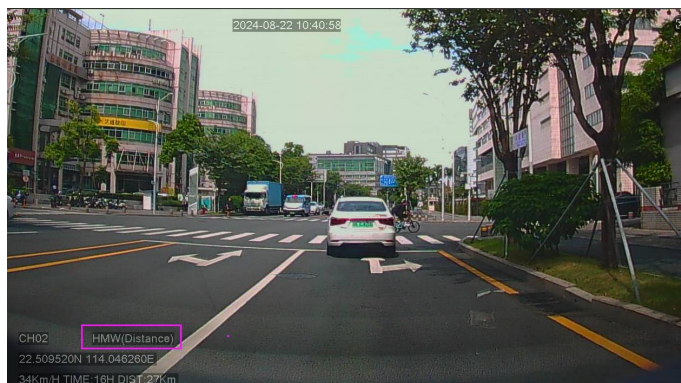
11.2.4 Pedestrian Collision Warning

During driving, real-time identification of pedestrians, bicycles, and motorcycles in front of the vehicle. If there is a potential collision risk, the driver will be reminded to ensure sufficient emergency braking time.



11.2.5 Distance Detection

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



11.3 DMS Function

11.3.1 Smoking

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

Note: Smoking alarms may produce false positives easily. 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.



11.3.2 Calling

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



11.3.3 Distraction Warning

Identifies the behavior of the driver not looking at the road ahead (looking around, looking down for something, etc.) and triggers an alarm to ensure driving safety.



11.3.4 Fatigue Driving Alarm (Eyes Closed)

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



11.3.5 Yawning

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



11.3.6 Driver Absence Detected

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



11.3.7 Seat Belt Detection

The device identifies the seatbelt status and issues a warning to the driver when the seatbelt is not fastened while driving to ensure driving safety.



11.3.8 IR block

The device has detected that the driver is wearing sunglasses, which prevents it from detecting whether the driver's eyes are closed.



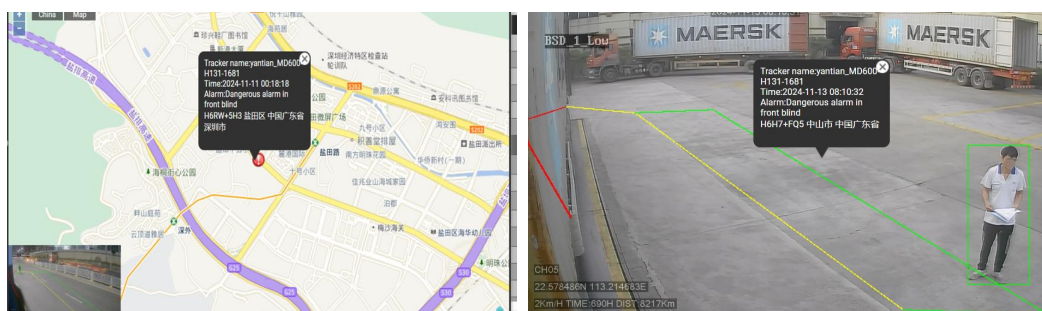
11.3.9 Covered

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



11.4 BSD

When the device detects a pedestrian in the BSD detection area, it will trigger the BSD blind spot alarm.

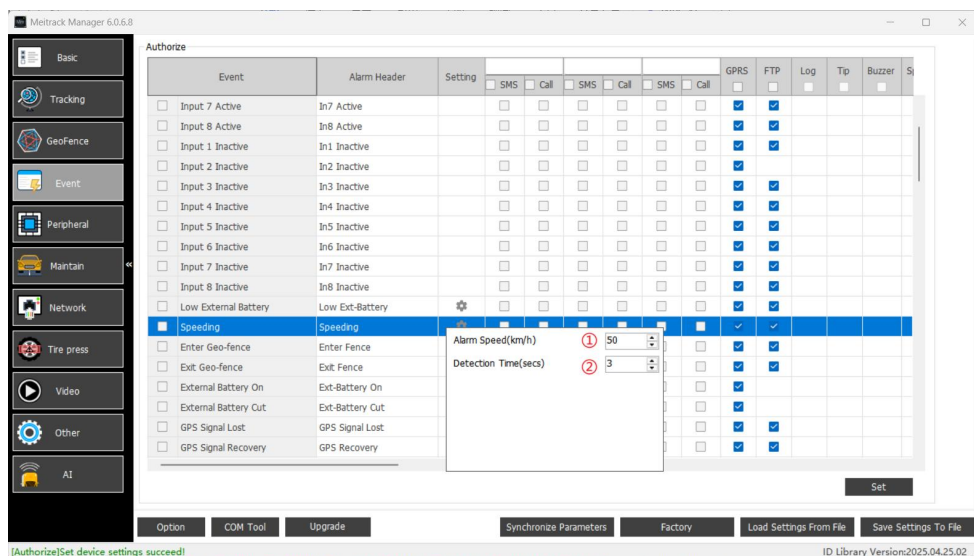


12 MD833H Function Settings

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.



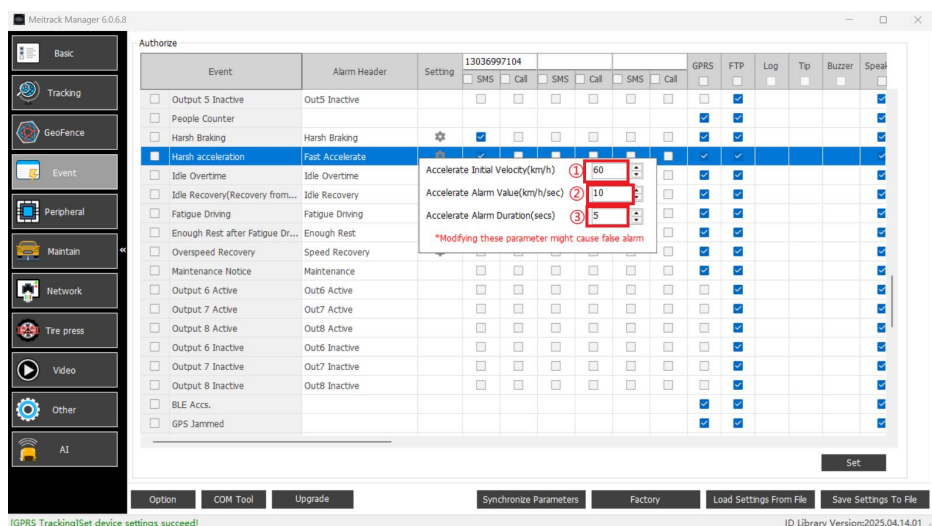
(2) Harsh acceleration\Harsh Braking: In the MM Harsh acceleration and Harsh Braking event settings, the alarm method can be configured as SMS, telephone, or GPRS.

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.

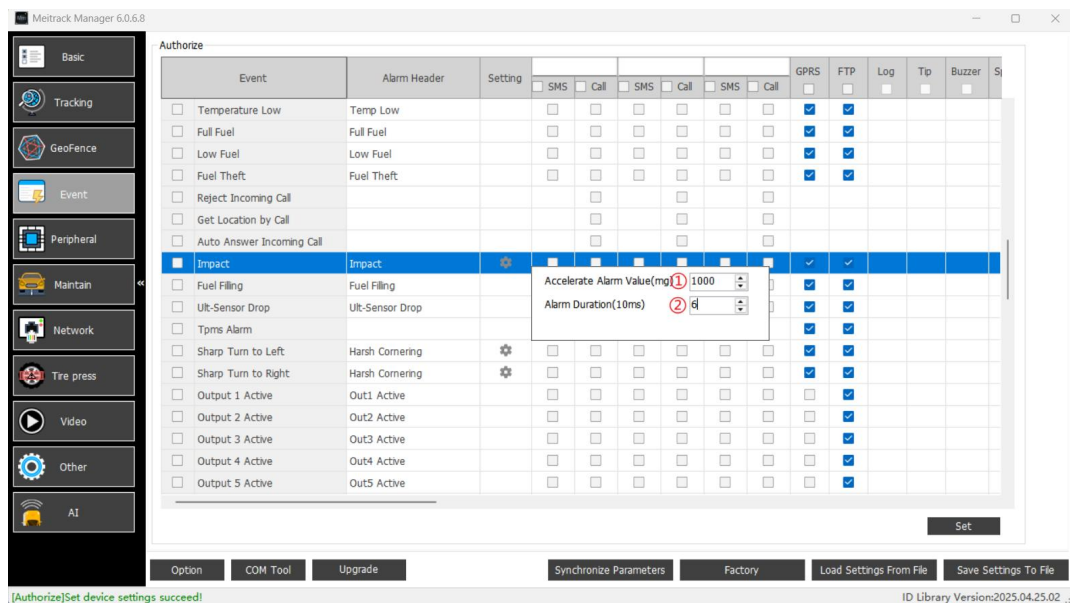


(3) Impact alarm: In the MDVR impact event settings, the alarm method can be configured as SMS, telephone, or GPRS;

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;

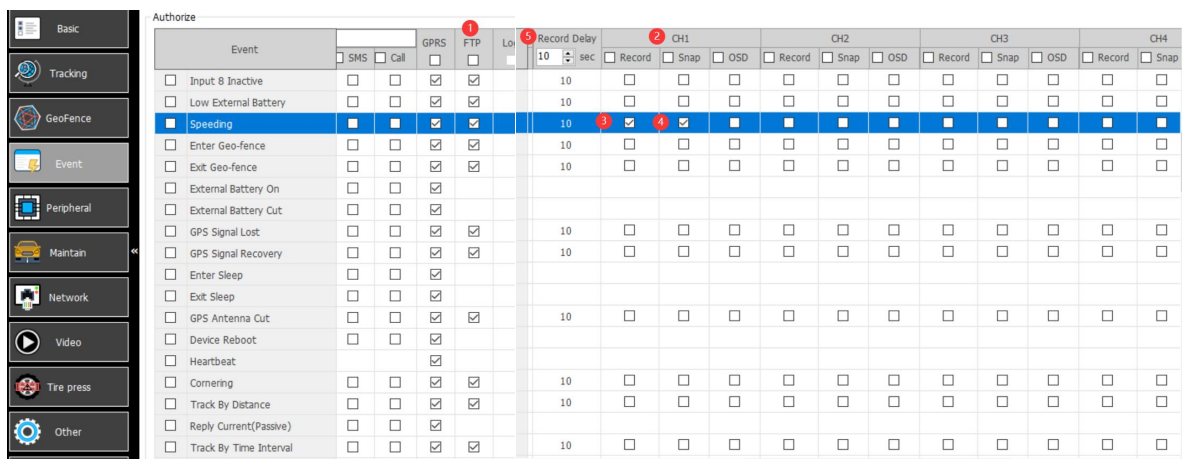
Note: For actual vehicle installation, the device must be firmly secured to the vehicle to ensure more accurate impact alarms. (The default values are identical for both small and large vehicles. If frequent false impact alarms occur during actual use, the impact acceleration threshold can be raised.)



12.2 Upload Alarm Images and Videos

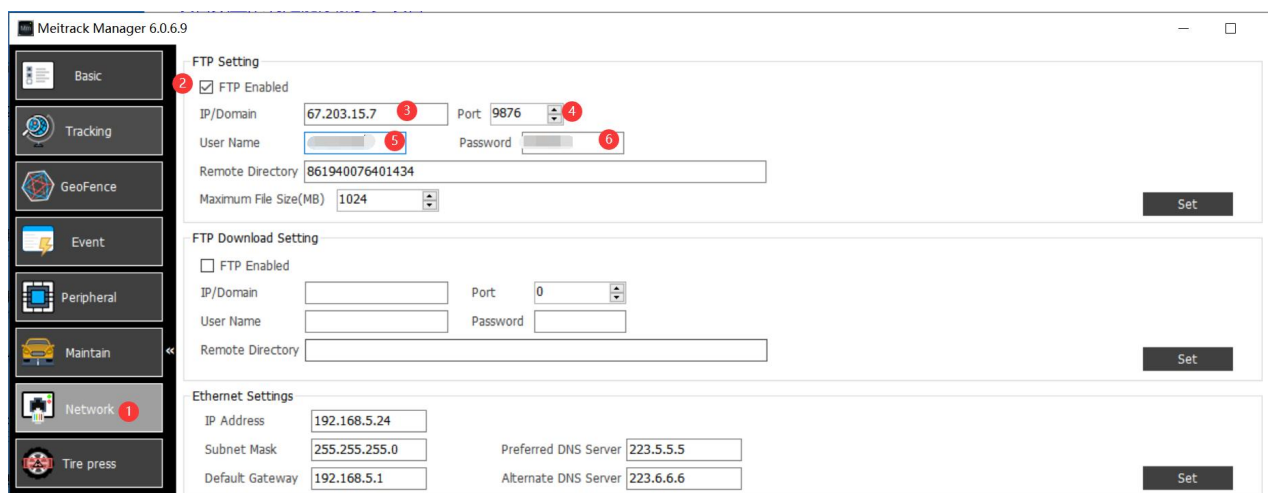
12.2.1 Configure to trigger alarm photo capture and snapshots;

- 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.



Meitrack Manager 6.0.6.9

FTP Setting

☒ FTP Enabled

IP/Domain: 67.203.15.7 Port: 9876

User Name: [redacted] Password: [redacted]

Remote Directory: 861940076401434

Maximum File Size(MB): 1024

Set

FTP Download Setting

☐ FTP Enabled

IP/Domain: [redacted] Port: 0

User Name: [redacted] Password: [redacted]

Remote Directory: [redacted]

Set

Ethernet Settings

IP Address: 192.168.5.24

Subnet Mask: 255.255.255.0 Preferred DNS Server: 223.5.5.5

Default Gateway: 192.168.5.1 Alternate DNS Server: 223.6.6.6

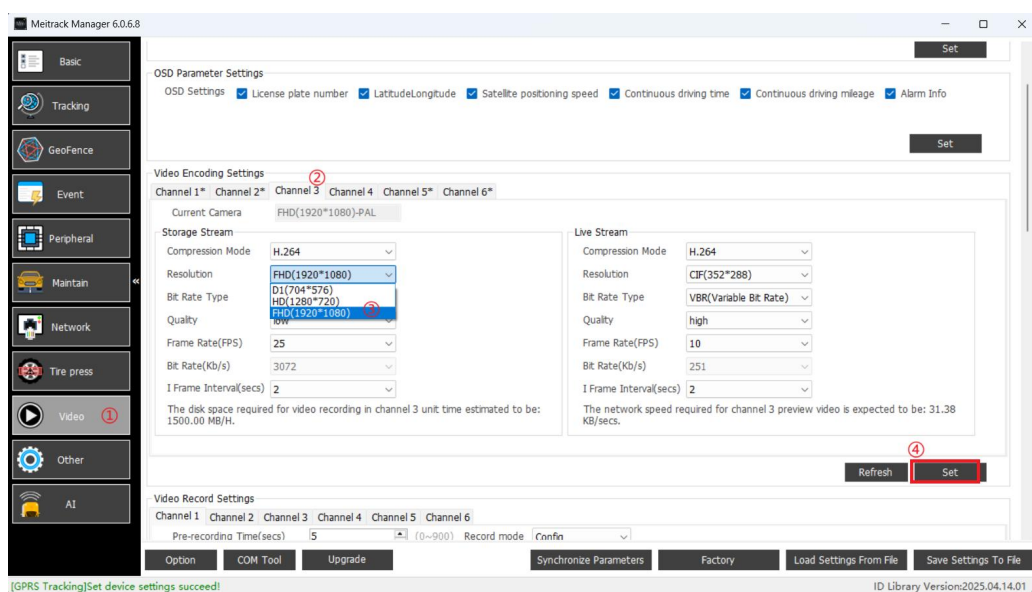
Set

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.



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OSD Parameter Settings

OSD Settings: ☒ License plate number ☒ Latitude/Longitude ☒ Satellite positioning speed ☒ Continuous driving time ☒ Continuous driving mileage ☒ Alarm Info

Set

Video Encoding Settings

Channel 1* Channel 2* Channel 3 Channel 4 Channel 5* Channel 6*

Current Camera: FHD(1920*1080)-PAL

Storage Stream

Compression Mode: H.264

Resolution: FHD(1920*1080)

Bit Rate Type: VBR(Variable Bit Rate)

Quality: high

Frame Rate(FPS): 25

Bit Rate(Kb/s): 3072

I Frame Interval(secs): 2

The disk space required for video recording in channel 3 unit time estimated to be: 1500.00 MB/H.

Live Stream

Compression Mode: H.264

Resolution: CIF(352*288)

Bit Rate Type: VBR(Variable Bit Rate)

Quality: high

Frame Rate(FPS): 10

Bit Rate(Kb/s): 251

I Frame Interval(secs): 2

The network speed required for channel 3 preview video is expected to be: 31.38 KB/secs.

Refresh **Set**

Video Record Settings

Channel 1 Channel 2 Channel 3 Channel 4 Channel 5 Channel 6

Pre-recording Time(secs): 5 (0~900) Record mode: Confine

Option **COM Tool** **Upgrade** **Synchronize Parameters** **Factory** **Load Settings From File** **Save Settings To File**

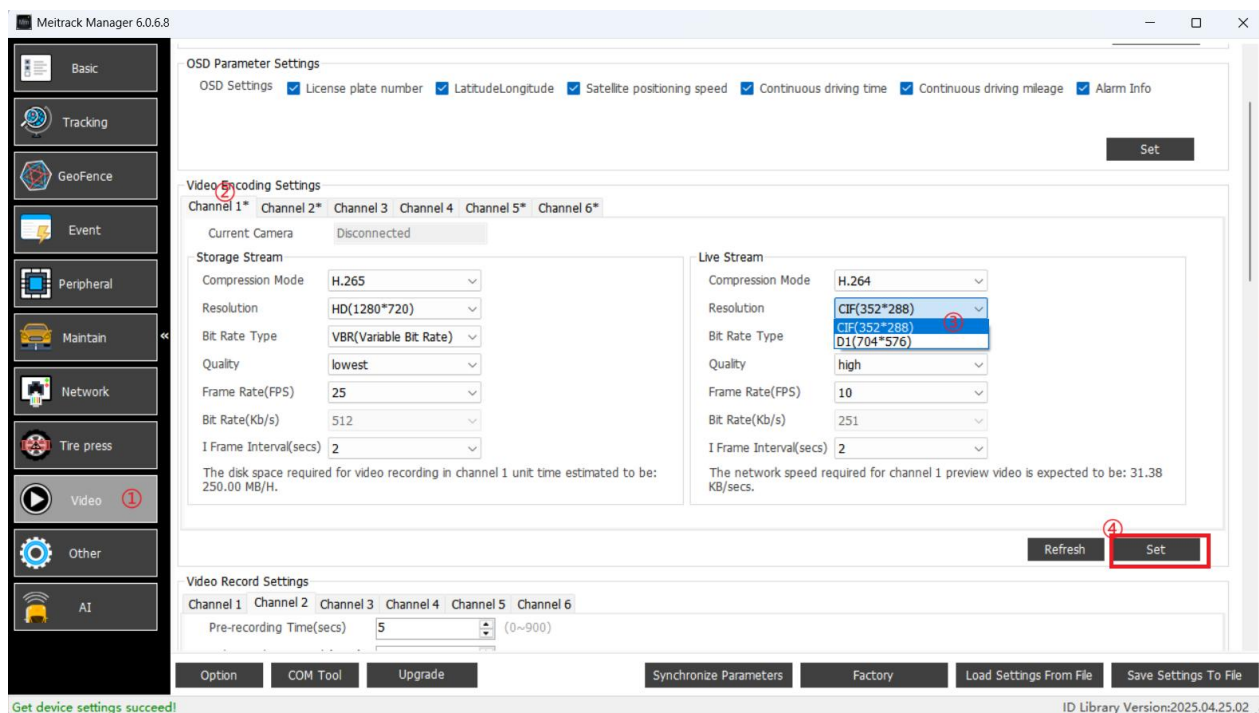
[GPRS Tracking]Set device settings succeed!

ID Library Version:2025.04.14.01

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.

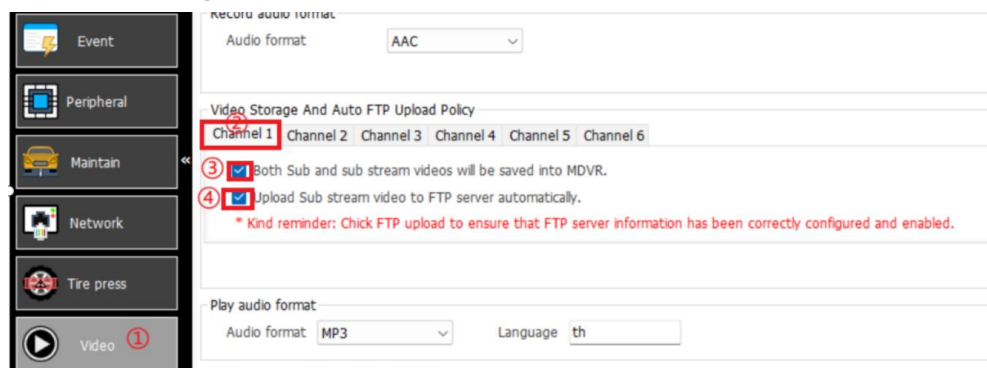
12.3.2 Set the resolution for real-time stream video.

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:

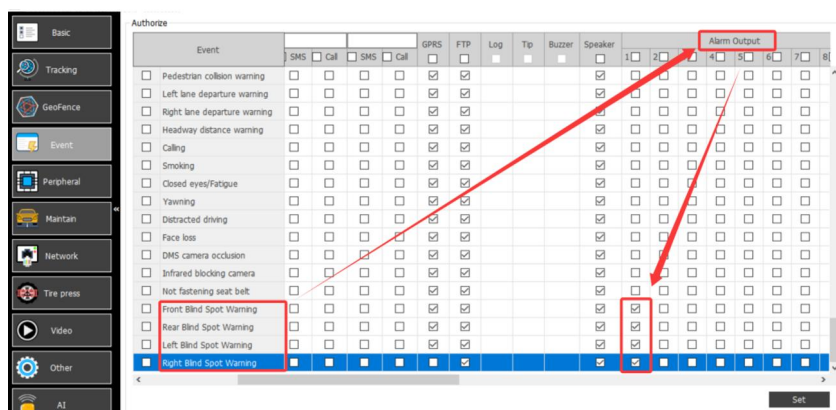
- (1) Configure the FTP Server first.
- (2) Select ① Video Settings, then choose ② Camera Channel, ③ Real-time Video Storage (if unchecked, real-time video will not be uploaded), and ④ Upload Real-time Video to FTP Server;



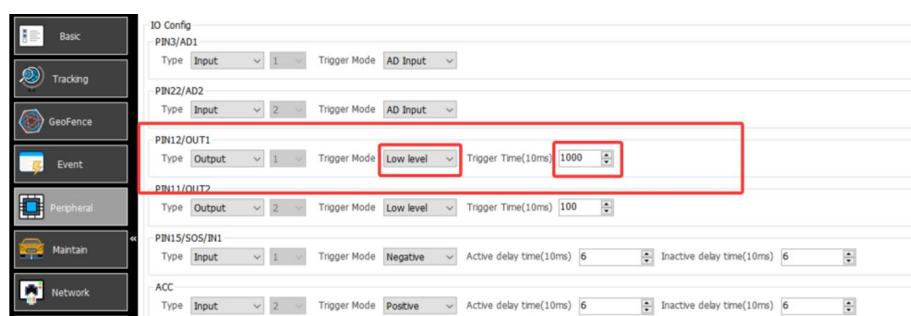
12.4 Event triggers OUTPUT output

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.



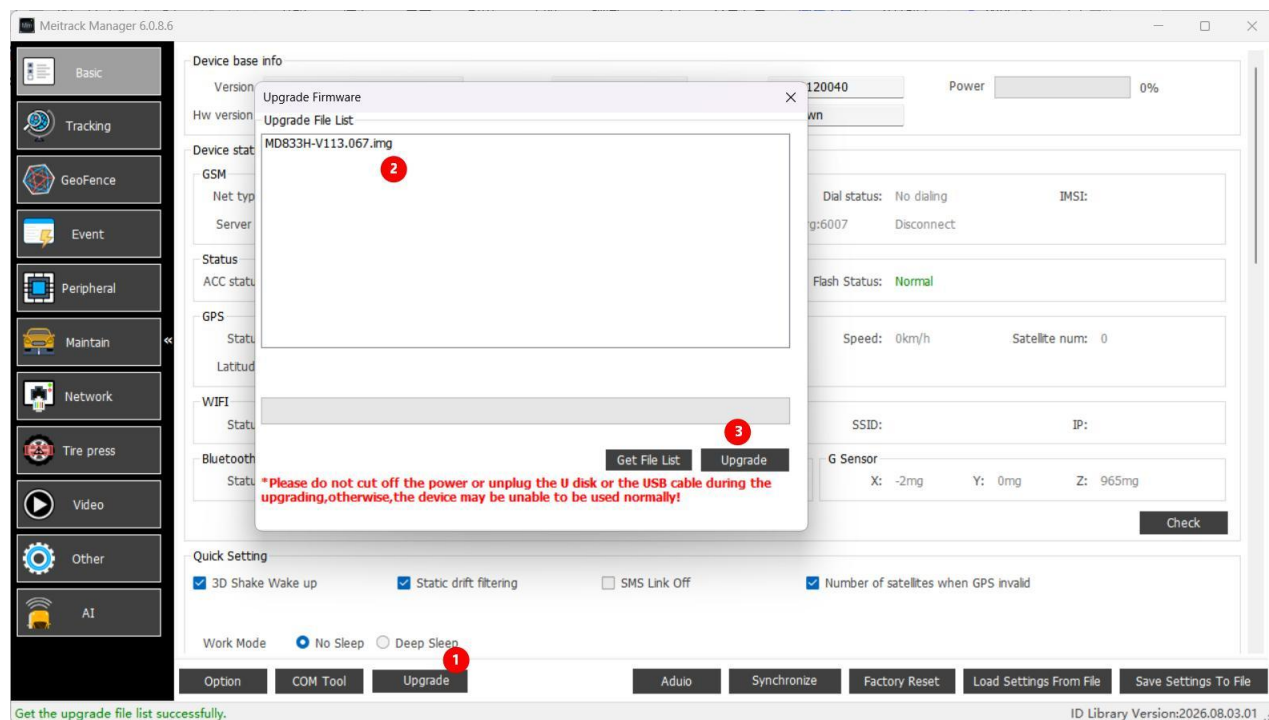
12.5 MD833H Upgrade

Ensure the USB drive contains an img file, for example, MD833H-V113.067.img

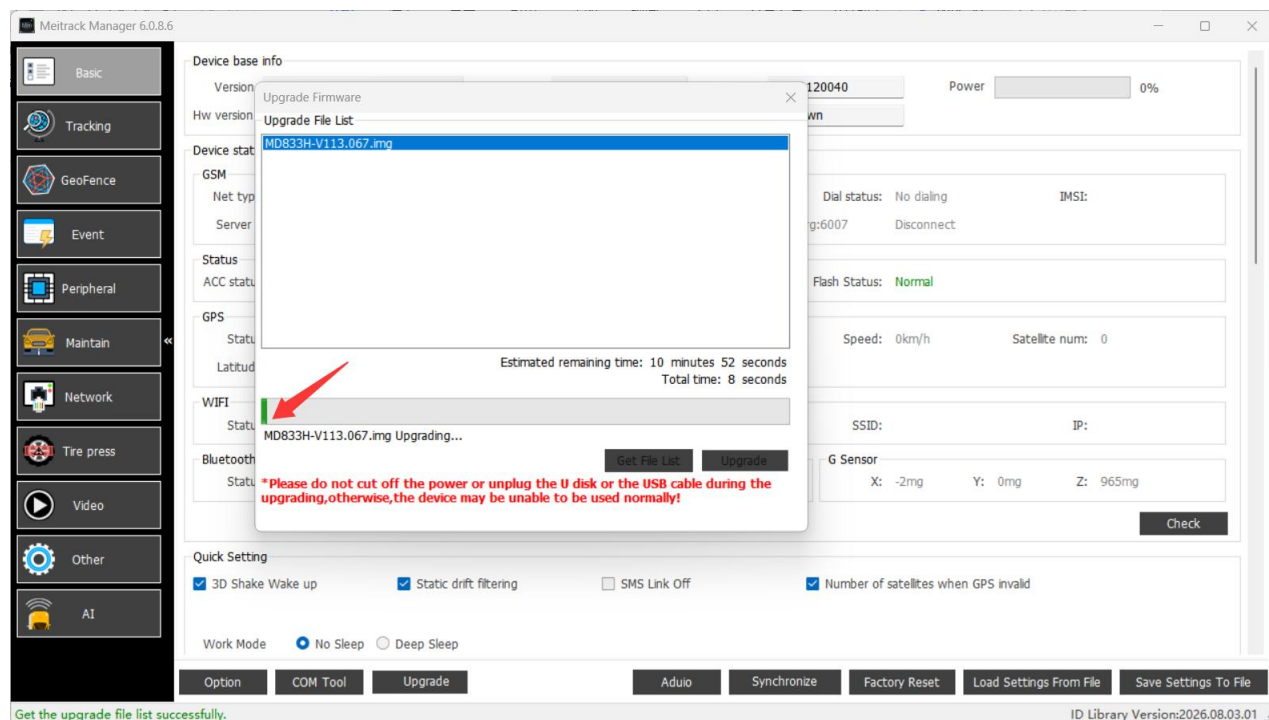
Insert the USB drive into the USB port of the MD833H device

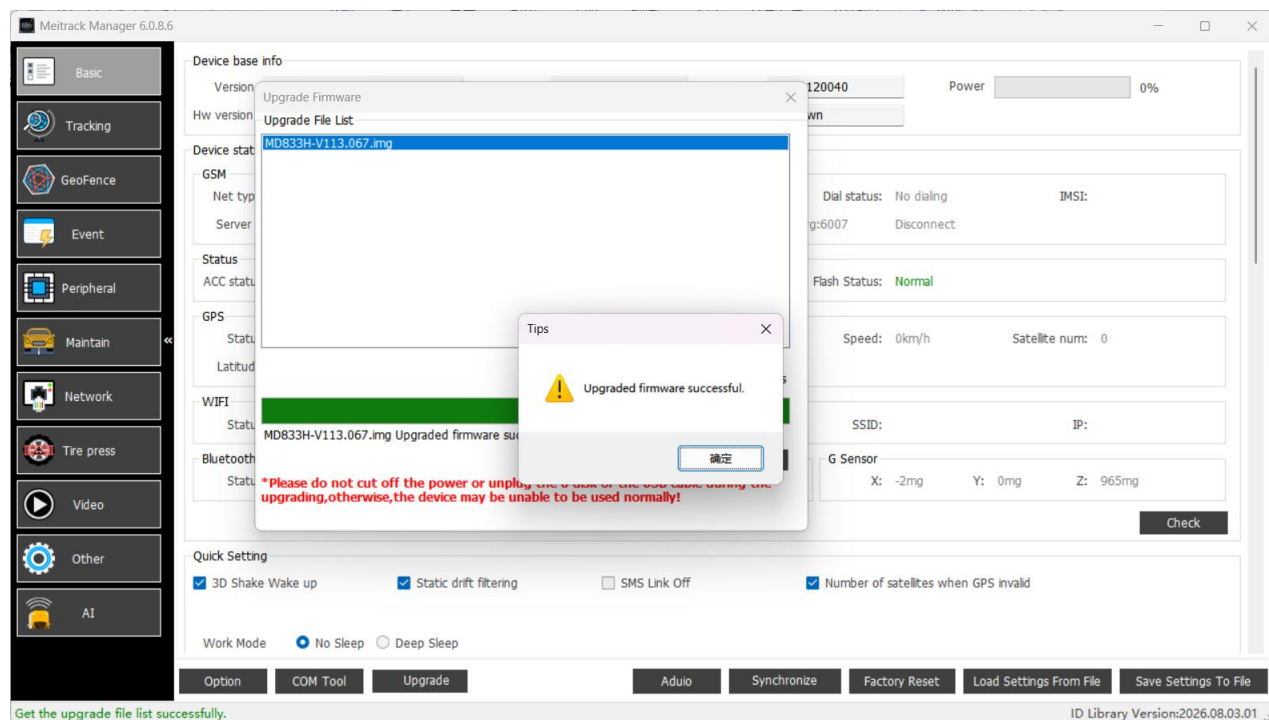


Open the MM software, then click ①, select the upgrade file ②, and click Upgrade ③



A progress bar will be displayed during the upgrade process

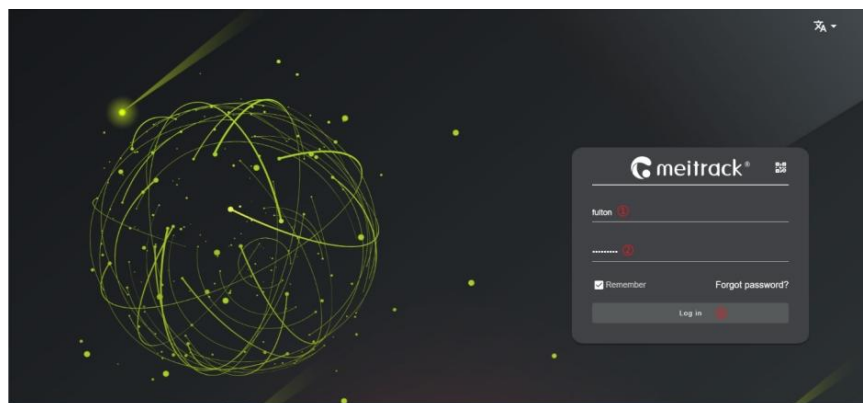




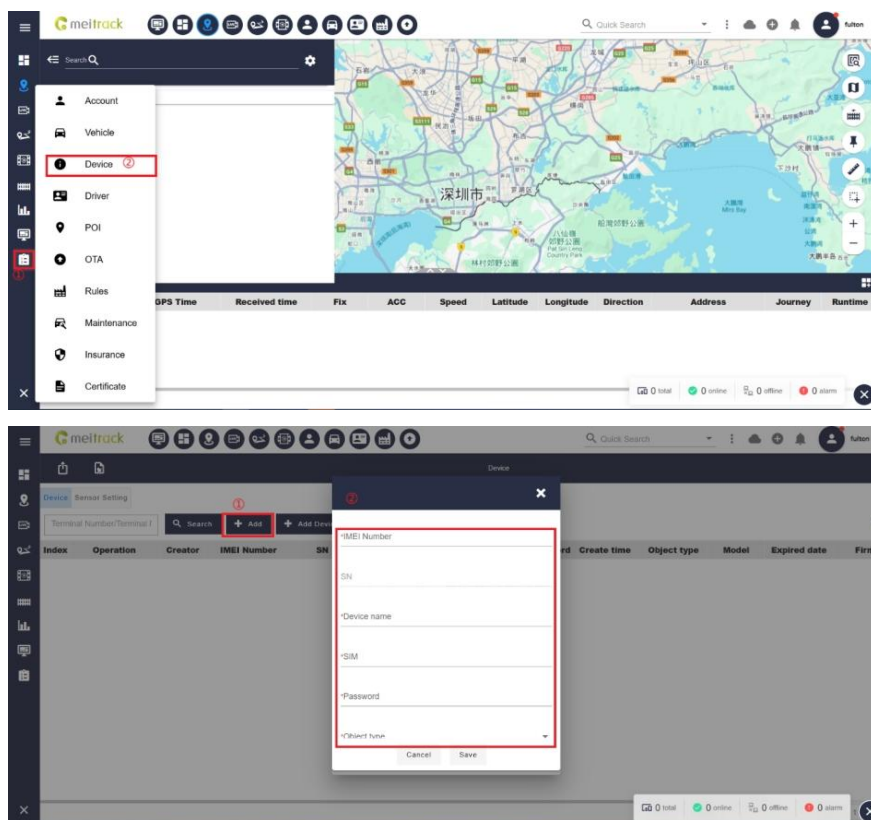
13 MS06 Platform

13.1 Bind Device

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



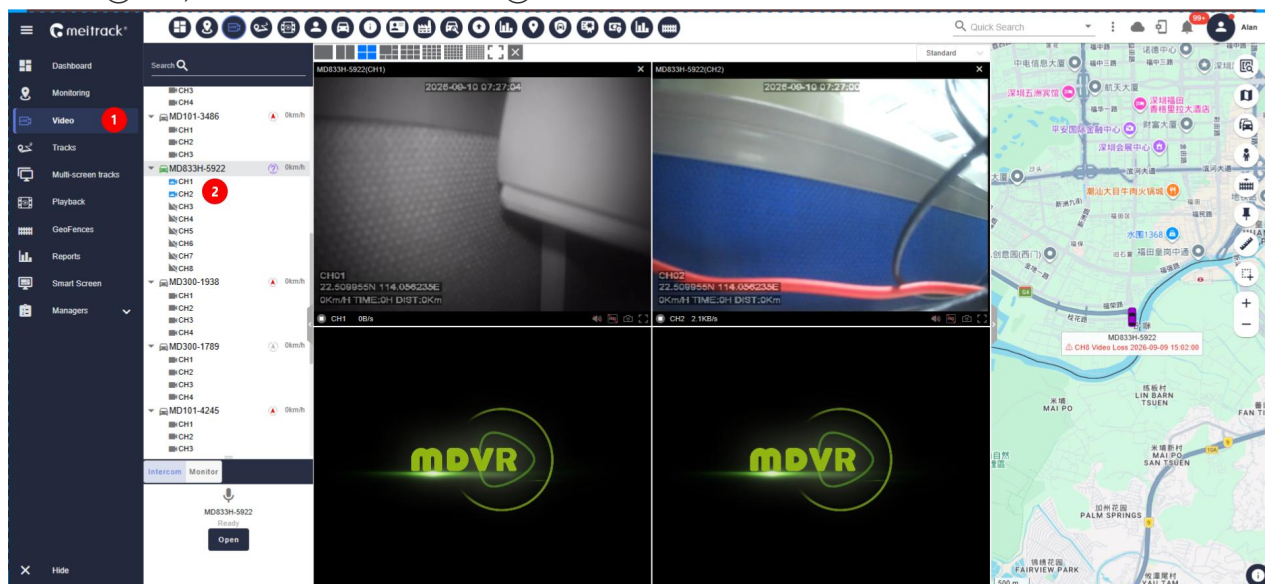
Click Device; select Add; fill in the required fields marked with *; then click save ;



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

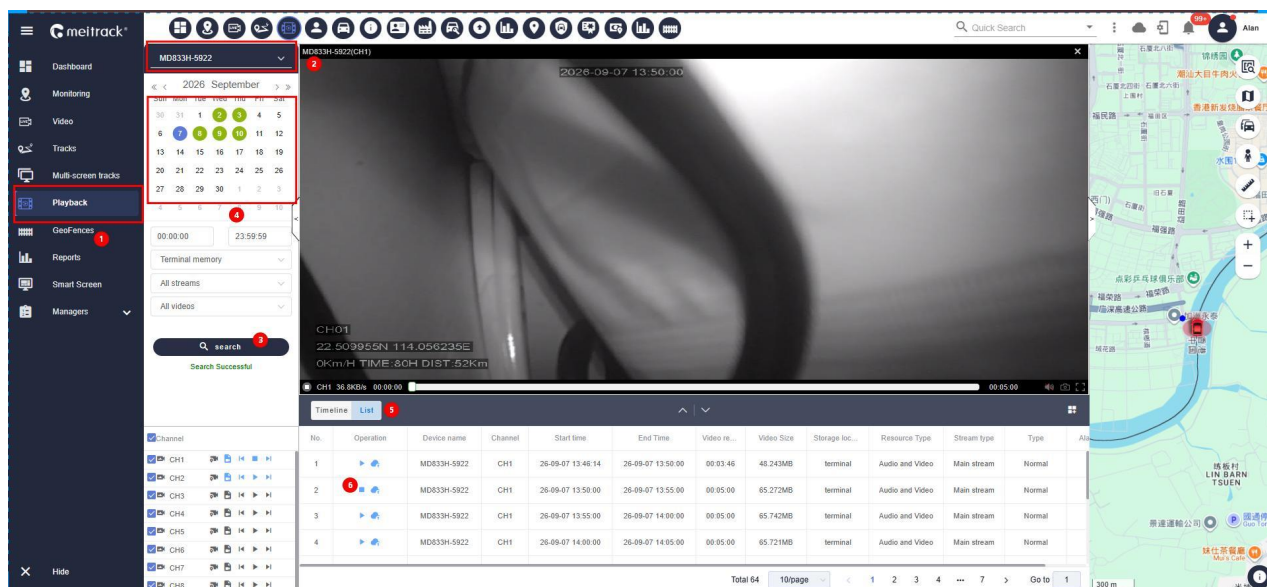
13.2 How to view live video

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



13.3 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 any questions, do not hesitate to email us at info@meitrack.com.