MEITRACK® MDVR Tracker

MD300A User Guide

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Document Revision History

Version	Date	Modification
1.0	2025-12-10	Initial draft.
1.1	2026-01-26	Modify video input and I/O port description.

Usage Precautions

Installation Environment

1. To ensure stable video recording quality, avoid attaching the device to materials with low adhesion such as velvet fabrics whenever possible, and ensure the 3M adhesive on the device base is firmly affixed during installation.

2. The device must be installed horizontally. When installing, ensure waterproofing, moisture protection, and lightning protection, and keep the vehicle stationary to prevent device damage due to falling.

3. To ensure the safe operation of the device, the device, camera, cables, and other accessories shall be positioned where passengers and the driver cannot easily reach them.

Avoid electric shock and fire hazards

1. This device operates on an 11.4–40V DC power supply. Pay close attention to polarity during wiring to prevent short circuits.

2. Before installation, disconnect the device's power supply. Individually wrap each unused I/O line with insulating tape to prevent contact with power output lines that could damage the device.

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

4. Never touch the power supply or the device with wet hands.

5. Do not spill liquids on the device to prevent internal short circuits or fire hazards.

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

7. Non-professionals must not disassemble the device casing to avoid damage and electric shock.

Transportation and Handling

1. To prevent accidental damage during transportation, handle the device with care. It is recommended to use the original packaging materials and carton.

for packing and shipping.

2. It is strictly prohibited to move this device or replace components while powered on, as doing so will damage the device.

Contents

1 Product Introduction

The MD300A is the second-generation AI Dashcam featuring a high-performance AI processing chip. This product is a dual system (dual communication channel), highly stable HD vehicle recorder that supports up to 4 channels of H.264/H.265 video compression/decompression, 4G, GPS, WiFi, Bluetooth, wide voltage range, high voltage protection, and other advanced technologies. It is the core product of the next-generation wireless vehicle video surveillance solution.

It is widely used in various mobile video surveillance applications, including buses, long-distance coaches, taxis, logistics vehicles, special vehicles (such as cash-in-transit vehicles), private cars, forklifts, and more.

Product Features:

Built-in 1080P resolution ADAS camera and 720P resolution ADAS camera;

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

Employs UPS-like power-off protection technology, allowing 5 to 15 seconds of operation after external power is cut off to prevent accidental video file corruption;

Supports TF cards with a maximum capacity of 2×512 GB; includes a TF card slot;

Expandable support for two channels of 720P cameras;

Utilizes industrial-grade power chip, supporting 11.4–40 V power input, suitable for harsh environments;

Supports dual operation modes: local recording and network transmission;

Built-in sensors for driver behavior status monitoring.

Utilizes a proprietary data writing mechanism to effectively safeguard recording data and prevent data loss due to abnormal system power interruptions.

2 Specification Parameters

Power Supply	
Rated Voltage	DC 11.4–40V, Rated 12V 2A (without external power box)
Power Consumption	Main unit audio and video with built-in two cameras On consumes approximately 6W. External two cameras consume approximately 12.5W during daytime (13W when connected to display), and approximately 14W at night (14.5W when connected to display).

AI Camera	
AI Video	ADAS、DMS
ADAS Camera Parameters	1/2.7-inch 5MP CMOS sensor, 2.3mm lens with 130° HFOV and 90° VFOV, 39dB signal-to-noise ratio, 74dB wide dynamic range.
DMS Camera Parameters	1/2.8-inch 2-megapixel CMOS sensor, 2.3mm lens with 135° HFOV and 70° VFOV, greater than 120dB wide dynamic range

Storage Medium	
TF Card	2×TF slots, maximum capacity per TF card: 512 GB, Class 10 or higher;

System Architecture	
System Operation	Dual System Operation

Audio and Video	
Video Input	Supports up to four channels (built-in 1080P ADAS and 720P DMS, plus 2 external 720P AHD cameras); Note: AV3 supports audio input, AV4 does not support audio input; ADAS supports HDR (High Dynamic Range);
Video Output	One CVBS aviation connector output (Level: 1.0 Vp-p, Impedance: 75 Ω);
Video Compression Standard	H.264/H.265 configurable; default is H.265
Display	Supports 4-screen display
Audio Input	Channel 1 audio input is a built-in MIC input (supports intercom, two-way communication, as well as ADAS and DMS recording or monitoring). Channels 2 and 3 audio inputs are for external AHD camera audio input and require camera support (recording or monitoring).
Audio Output	1 Channel Built-in Speaker Output, 1 Channel External Display Built-in Speaker
Audio Compression	G.711a
Recording Search and Playback	Search and playback can be performed by channel, recording type, stream type, and time.
Recording Mode	Normal Recording and AI Alarm Recording with Synchronized Audio and Video

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, 2.4 GHz Frequency, Supports AP/STA Modes. WiFi Function Can Be Enabled via Button to Connect to MM+ APP for Parameter Configuration.
Bluetooth	Supports master-slave dual mode, can read Bluetooth accessories, configurable parameters via APP;
Positioning Mode	GPS/GPS_BEIDOU/GPS_GLONASS

Positioning Accuracy	2.5m
Tracking Sensitivity	-162dBm
GNSS Antenna	Built-in GNSS antenna with support for antenna insertion, removal, and short-circuit detection

Other	
Operating Temperature	-20~70℃
SPI Memory	MCU: Built-in 8MB memory for storing GPRS, SMS, and GPS log data
Sensor	Built-in 3-axis sensor supporting motion and stationary detection
I/O Port	15-pin loose wires + 4-pin interface + 2-pin SOS port; SOS*1+ACC*1+IN/AD/OUT*2 (Total multiplexed 2) + RS232*1 + 5V _ OUT*1 + DC _ IN*1 + GND*2 + 1-Wire*1 + OUT1*1 External AHD Display + Dual AHD Camera Interface
Dimensions	117 × 70 × 120 mm (Dual Cameras with Bracket)
Weight	310 g (Dual Cameras without Accessories)

Certification
CE Certified
Protocol

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

3 Optional

3.1 Standard

MD300A Main Unit

CD Download Guide Card

Bracket

Screws and Wrench

3.2 Optional

3.2.1 Optional MDVR Camera

Waterproof Standard Camera (Outdoor)	
Side-mounted Waterproof Camera 720p (ACA301）	Waterproof Square Camera 720p （ACA501）

Non-waterproof Standard Camera (Indoor)
Metal Mini Bullet Camera 720p (ACA303)

Camera Extension Cable (Default 3 m or 5 m)	Extended Video Cable (2 m)

Note:

1. The standard camera cable length is generally 50 cm; please use the corresponding camera extension cable.

2. The third and fourth channel cameras support up to 720p.

3. To connect CH3, CH4, and the display, the extended video cable must be used.

3.2.2 Other Optional Accessories

Bluetooth External Accessories (Optional)		
Bluetooth Temperature and Humidity Sensor （AST101）	Bluetooth Beacon （AB401)	Bluetooth Beacon （AB402）

Other External Accessories (Optional)			
A53 Fuel Sensor (Voltage AD)	A52 Digital Temperature Sensor	Relay	iButton Reader
Ultrasonic Fuel Level Sensor		7-inch CVBS Display	
Memory card	RFID Reader	UPS Power Supply (APU201)	

Note: The TF Card/SD Card must be formatted through MM after installation; otherwise, video storage may fail.

4 LED Indicator

Identifier	Indication	Color	Status	Description
	Power Supply Indicator	Red	Steady On	Device Power Supply Indicator
			Constant Off	Device Powered Off
	Video Status Indicator	Red	Steady On	No Cameras Connected on Any Channel
			Strobe (Flashes Once Every 5 Seconds)	One Channel without Camera Connected
			Strobe (Flashes Twice Every 5 Seconds)	Two Channels without Camera Connected
			Strobe (Flashes Three Times Every 5 Seconds)	Three Channels without Camera Connected
			Constant Off	Cameras Connected on All Four Channels
	Positioning Indicator	Blue	Steady On	Button Trigger
			Quick Flash (Flashes Once Every 0.1 Seconds)	GPS Initialization
			Strobe (On for 0.1 Seconds, Off for 2.9 Seconds)	Positioned
			Slow flash (on for 1 second every 2 seconds)	Not located
	4G network status indicator	Green	Fast flash (flashes once every 0.1 seconds)	Module is initializing
			Strobe (on for 0.1 seconds, off for 2.9 seconds)	4G network normal
			Constant Off	Not registered on the network
	WIFI indicator light	Green	Fast flash (flashes once every 0.1 seconds)	Using WIFI network
			Strobe (on for 0.1 seconds, off for 4.9 seconds)	WIFI module detected, but WIFI network not in use
			Constant Off	No WIFI module
	Recording status indicator	Green	Fast flash (once every 0.1 seconds)	Storage disk detected and able to record normally
			Strobe (on for 0.1 seconds, off for 4.9 seconds)	Storage disk detected, but no recording
			Constant Off	Storage disk not detected

5 I/O Cable and Interface Definition

Serial Number	Wire Color		Definition	Description
1	Red	▬▬▬▬▬▬	DC+	DC power input positive pole with a 5A fuse; connect to vehicle and battery positive terminal.

2	Black & White		DC-	DC power input negative pole.
3	White		ACC	ACC input; high-level input triggered above 4.5V, maximum operating voltage 45VDC; used to connect to vehicle ACC to monitor ignition status.
4	Gray		SOS/IN1	SOS line, negative trigger, maximum operating voltage 45VDC.
5	White & Red		IN3/OUT1 /AD1	Digital Input 3; connected to the left turn signal, default high trigger. Can be configured as either a positive trigger, AD1 (0~30V) analog input, or OUTPUT1; maximum operating voltage 45 VDC, maximum output current 0.3 A.
6	White & Orange (White with orange stripe)		IN4/OUT2 /AD2	Digital Input 4, connected to the Right Turn Signal, default high trigger. Can be configured as either a positive trigger, AD2 (0~30V) analog input, or OUTPUT2; maximum operating voltage 45 VDC, maximum output current 0.3 A.
7	Brown & White (Brown with white stripe)		RS232_TX	RS232 input (MCU communication), RS232 output from external device.
8	Brown (brown)		RX232_RX	RS232 output (MCU communication), RS232 input to external device.
11	Pink & Red (Pink with red stripe)		5V_OUT	5 VDC output, maximum 0.5 A current output.
12	Black		GND	Ground wire, external accessory grounding;
13	1-WIRE (Green)		1-Wire	For connecting temperature sensors, IBUTTON, and other 1-Wire accessories

6 Interface Definition

(Diagram is temporary and will be replaced 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 one Nano SIM card
3	TF Card Slot-1	Standard TF card slot, supporting up to 1TB capacity
4	TF Card Slot-2	Standard TF card slot, supporting up to 1TB capacity
5	WIFI Button	Temporarily turn On or Off the device's WIFI hotspot
6	Interface Cover	Integrated body cover, can be secured with screws, providing protection and dust resistance
7	LED Indicator	Device Status LED Indicator
8	DMS Camera	1080P DMS Camera NTSC
9	Audio and Video Interface	Supports connection of audio and video conversion cables to expand 2 video inputs and 1 video output - AV_IN*2, AV_OUT*1
10	Speaker	Used for the platform's intercom or two-way communication functions, as well as AI voice broadcasting.
11	MIC	Used for two-way communication or monitoring.
12	Restart Switch	Short press with tweezers to restart the device.

Serial Number	Name	Description
1	ADAS Camera	1080P resolution ADAS camera.
2	Main Cable	12PIN+4PIN BMW connector, connects to N1 or N2 power box.
3	GPS Antenna Interface	SMA male connector, connects to GPS antenna.
5	Bracket	Main unit bracket with high-temperature resistant 3M adhesive, used for installation and fixation on the windshield.

7 AI Alarm Trigger Information

7.1 AI Alarm Function Introduction

This device employs video analysis-based machine vision technology to automatically detect road hazards and unsafe driving behaviors. Any detected event will trigger an audible alarm to promptly alert the driver, and the events will be synchronized to the platform.

Note: The AI function must be calibrated and configured in accordance with the installation instructions; otherwise, the accuracy of the AI function may be compromised.

7.2 AI Alarm and Trigger Conditions

AI	Alarm Type	English Voice Prompt
ADAS	Left Lane Departure Warning	Watch out lane departure
	Right Lane Departure Warning	Watch out lane departure
	Forward 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
	Making a Telephone Call	No phone call
	Distracted Driving	Please face forward
	Fatigue	Attention, drowsiness detected
	Yawning	Please stay awake

	Driver Leaving Seat	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 Obstruction	Do not block the DMS lens

Trigger Conditions and Sensitivity

Alarm Type	Trigger Speed (Default)	Sensitivity		
		High	Medium	Low
Left Lane Departure Warning	＞50	Sensitivity: 0.3	Sensitivity: -0.3	Sensitivity: -0.7
Right Lane Departure Warning	＞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
Maintain Distance	＞30	TTD = 2.0s	TTD = 1.6s	TTD = 1.2s
Smoking	＞10	Alarm Trigger Duration: 2 s	Alarm Trigger Duration: 3 s	Alarm Trigger Duration: 4 s
Making a Telephone Call	＞10	Alarm Trigger Duration: 2 s	Alarm Trigger Duration: 3 s	Alarm Trigger Duration: 4 s
Distracted Driving	＞10	Alarm Trigger Duration: 2 s	Alarm Trigger Duration: 3 s	Alarm Trigger Duration: 4 s
Eyes Closed/Fatigue	＞10	Alarm Trigger Duration: 2 s	Alarm Trigger Duration: 3 s	Alarm Trigger Duration: 4 s
Yawning	＞10	Alarm Trigger Duration: 1.5 s	Alarm Trigger Duration: 2 s	Alarm Trigger Duration: 3 s
Face Lost	＞10	Alarm Trigger Duration: 2 s	Alarm Trigger Duration: 5 s	Alarm Trigger Duration: 8 s
Seat Belt Not Fastened	＞10	Alarm Trigger Duration: 2 s	Alarm Trigger Duration: 5 s	Alarm Trigger Duration: 8 s
Infrared-Blocked Camera	＞10	Alarm Trigger Duration: 2 s	Alarm Trigger Duration: 4 s	Alarm Trigger Duration: 6 s
DMS Camera Obstruction	＞10	Alarm Trigger Duration: 5 s	Alarm Trigger Duration: 10 s	Alarm Trigger Duration: 15s

7.3 ADAS Function

7.3.1 Left Lane Departure Warning

Detects lane departure in real time during driving. If unintentional lane departure occurs, the driver is alerted to ensure driving safety.

Note: The vehicle must connect the left and right turn signal wires, and activate the turn signals before turning; otherwise, turning may cause false lane departure alarms.

7.3.2 Right Lane Departure Warning

Detects lane departure in real time during driving. If unintentional lane departure occurs, the driver is alerted to ensure driving safety.

Note: The vehicle must connect the left and right turn signal wires, and activate the turn signals before turning; otherwise, turning may cause false lane departure alarms.

7.3.3 Forward Collision Warning

Detects the relative speed between this vehicle and the vehicle ahead in real time. When a collision is imminent, the driver is alerted to ensure sufficient emergency braking time.

7.3.4 Pedestrian Forward Collision Warning

During driving, the system detects pedestrians, bicycles, and motorcycles ahead of the vehicle in real time. If a potential collision risk exists, it alerts the driver to ensure sufficient emergency braking time.
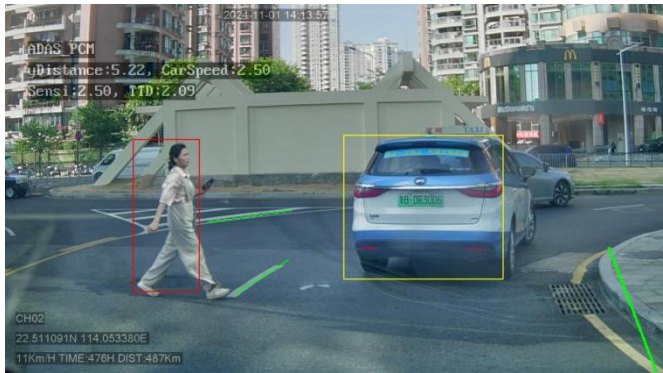
7.3.5 Maintain Distance

When the vehicle is moving at low speed, the system detects the relative speed between this vehicle and the vehicle ahead. If a potential collision risk exists, it alerts the driver to maintain a safe distance.
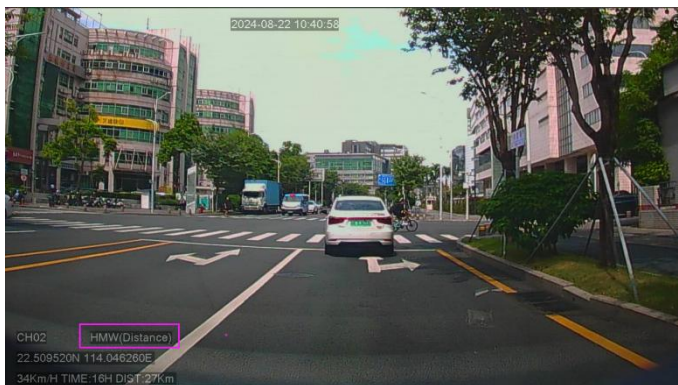
7.4 DMS Function

7.4.1 Smoking

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

Note: Smoking alarms are prone to false positives. When the driver performs actions similar to smoking, such as resting the hand on the cheek or eating and drinking, false alarms may occur. You may collect videos of false alarms and provide them to us to optimize the AI algorithm.

7.4.2 Making a Telephone Call

Detect the driver's mobile phone use while driving and issue a warning to ensure driving safety.

7.4.3 Distracted Driving

Detect the driver's behavior of not looking at the road ahead during driving (such as looking around or lowering the head to search for items) and issue an alarm to ensure driving safety.

7.4.4 Fatigue driving alarm (closed eyes)

Detect the driver's fatigue status (closed eyes) and issue a warning to ensure driving safety.

7.4.5 Yawning

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

7.4.6 Face Lost

Detect if the driver may have left and issue a voice reminder.

7.4.7 Seat Belt Recognition

The device recognizes the seat belt status. When the driver is driving without fastening the seat belt, it issues a warning to ensure driving safety.

7.4.8 Infrared-Blocked Camera

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

7.4.9 Camera Obstruction

The device detects that the DMS camera is obstructed and will issue a voice warning to the driver.

8 Installation

8.1 SIM Card & TF Card Installation;

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

1) SIM Installation — Insert the Nano-SIM as shown on the left in the image below (①) with the metal chip facing upward and the notch facing the interface. Insert it fully into the slot until a 'click' sound is heard, then release.

2) TF Card Installation - In the figure on the right, TF Card Slot 1 (①) requires the TF Card gold contacts to face downward, with the side notch on the right; TF Card Slot 2 (②) in the figure on the right requires the TF Card gold contacts to face upward, with the side notch on the left; Align the card with the slot and insert it until a 'click' sound is heard, then release the card; it will remain securely in place.

After installation, please replace the cover and secure it with screws. (The illustration is temporary and will be updated later.)

8.2 Main Unit Installation:

It is recommended to install the MD300A above and to the right of the steering wheel, in the area around the windshield rearview mirror, as shown in the figure within the dark blue zone, ensuring the driver's face is within a 30° angle on one side of the DMS Camera.

For safe driving and to maximize the accuracy of the AI Algorithm, the device installation location must be selected according to the following principles:

● Do not obstruct the driver's field of vision.

● Do not interfere with the driver's operation.

● The device must be kept level and not tilted.

● The driver's face should preferably be centered in the inward-facing camera's frame (preview available in the "MT Manager+" APP).

● The center point of the front camera's frame should align as closely as possible with the horizon line (preview available in the "MT Manager+" APP).
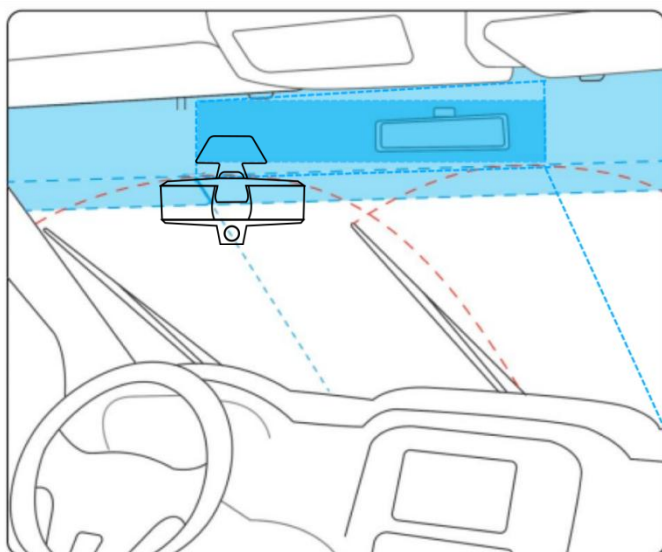
8.3 Power supply and ACC connections;

Connect the ACC wire and power wire to the corresponding original vehicle fuse socket.
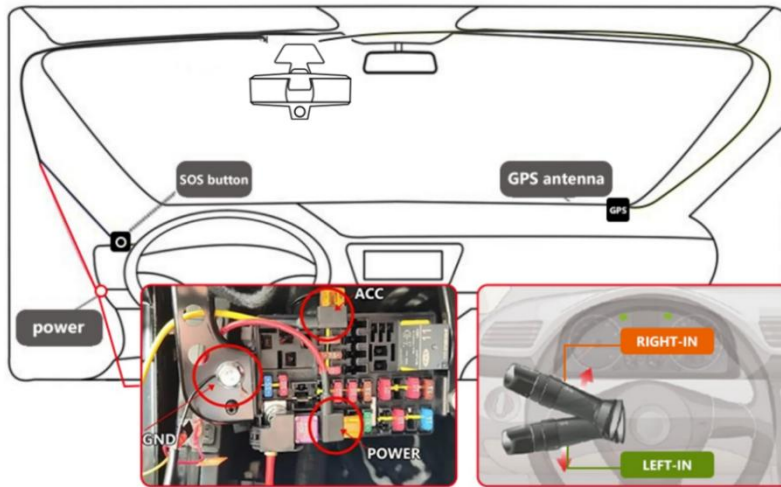
Note:

1. If the fuse socket corresponding to ACC or constant power is unknown, use a multimeter or test pen to measure following these steps:

a. When the vehicle is off and power is disconnected, if the test pen light is on, it indicates this terminal is a constant power interface.

b. Start the vehicle and use the test pen to check; if the previously unlit terminal now lights up, this terminal is the ACC.
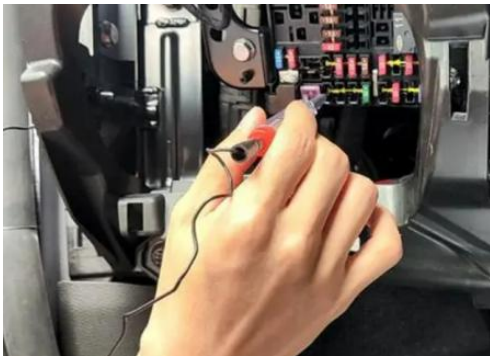
2. If the fuse corresponding to the turn signal is unknown, please use a multimeter or test pen to measure according to the following steps:

a. Start the vehicle, turn the left or right turn signal on and off, and use the test pen to check the fuse terminals. If the detected terminal lights up or goes out simultaneously with the turn signal, this terminal is the left/right turn signal switch detection terminal.

b. If not connecting the left/right turn signal detection lines, please disable the left/right lane departure alarm function; otherwise, lane departure alarm events will be triggered by default.

9 Server Configuration Steps

Single Server, Dual Server

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

9.1 Single Server

First, click Tracking Settings ①, then enter the MDVR platform IP ② and Port ③, confirm selecting the TCP connection ④, then click Set ⑤.
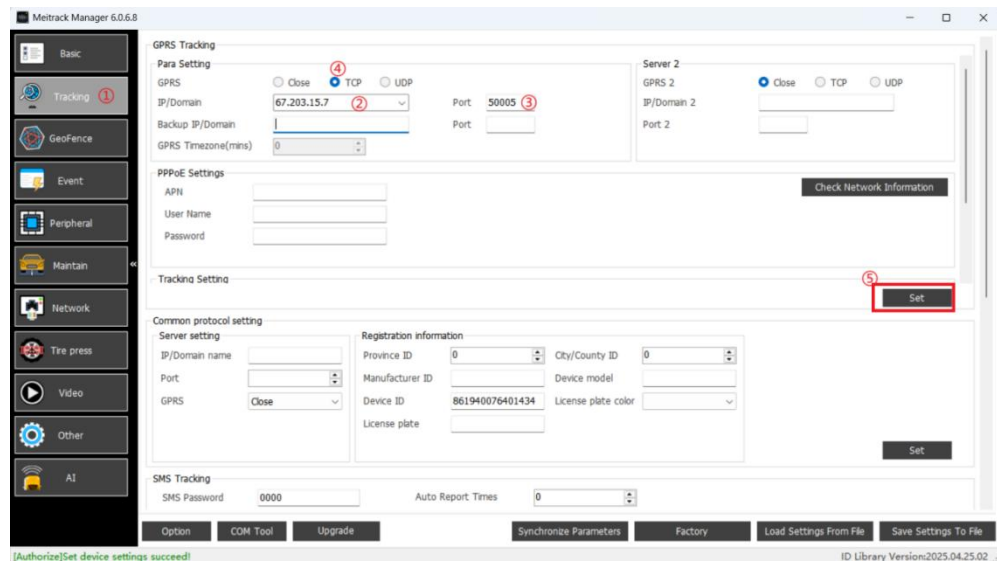
9.2 Dual Server

First, click Tracking Settings ①, then enter the MDVR platform IP ② and Port ③, confirm selecting the TCP connection ④, then enter the MS06 platform IP ⑤ and Port ⑥, confirm selecting the TCP connection ⑦, and finally click Set ⑧.
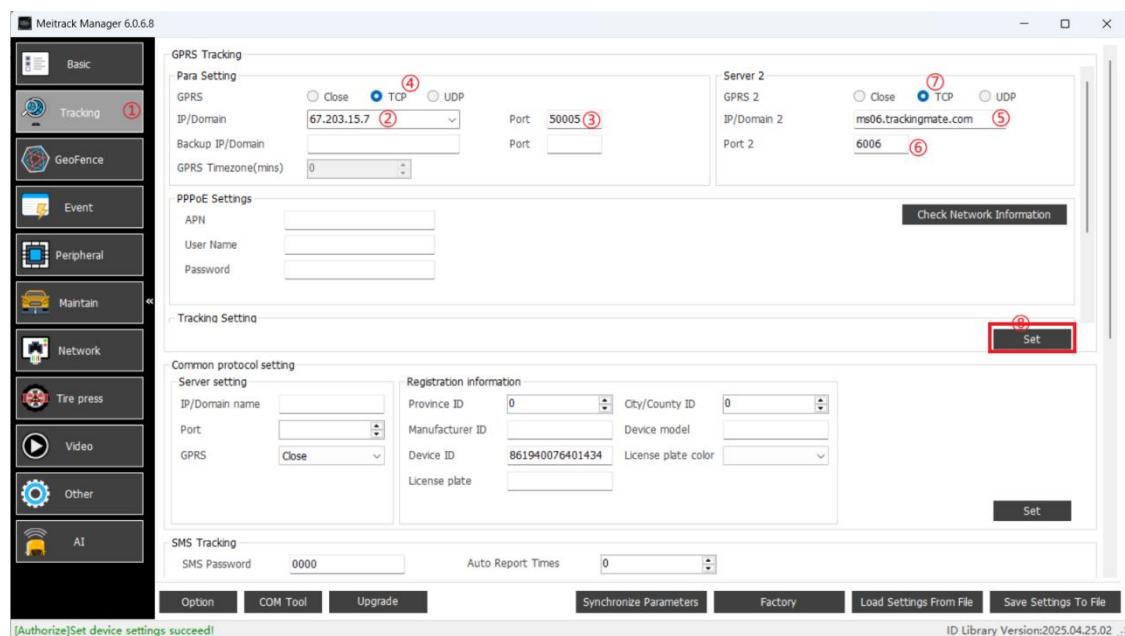
10 Parameter Configuration

10.1 APP Parameter Configuration

(1) Download the APP

Search for 'MT Manager+' in the Google Play Store or App Store on your mobile device, then 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 and configuration, press the button to the right of the LED indicator to activate the device WIFI hotspot, connect to the device WIFI, then use the APP to connect to the device.
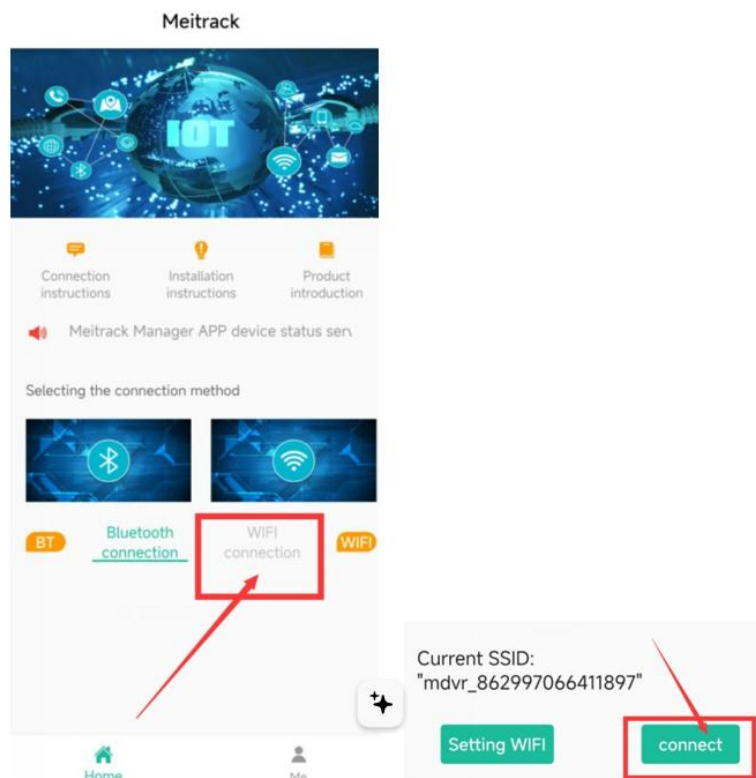
(3) Log in to the Management Account

After the APP successfully connects to the device, click 'Parameter Configuration' in the bottom navigation bar, then enter the account and password: 'admin', '0000' to access the parameter configuration page.
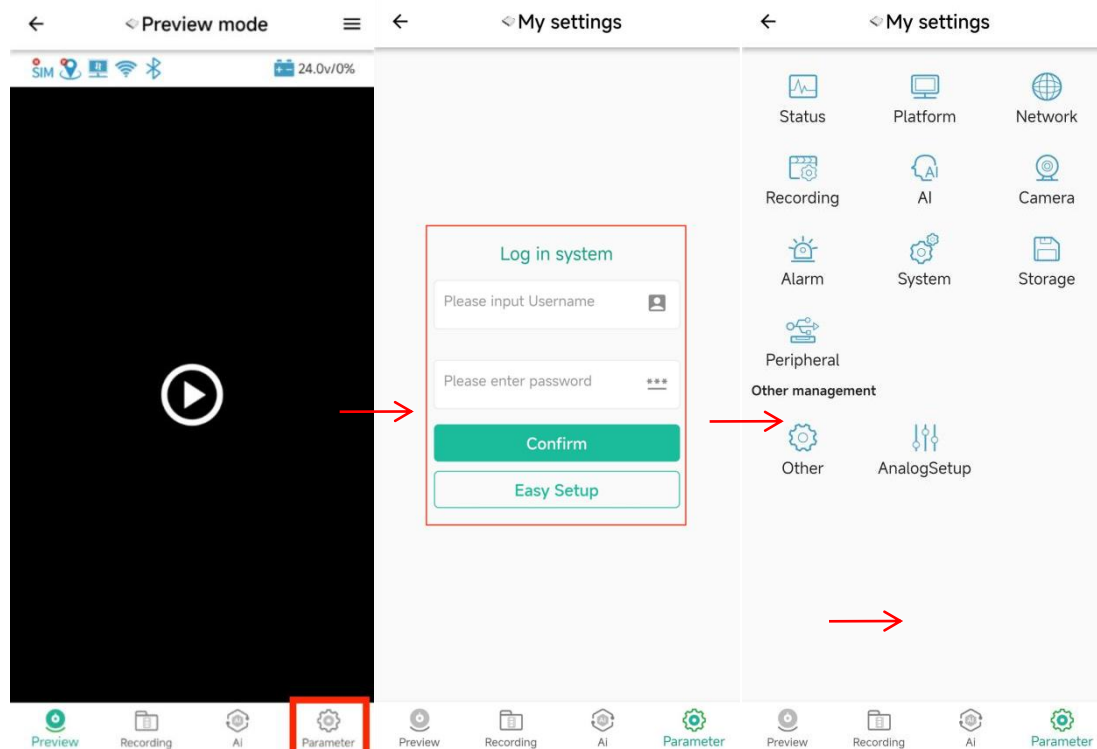
（4）Configure Platform Parameters

Click sequentially — Registration Configuration — Set GPRS1 Connection Mode to TCP — Enter IP/Domain 1: 67.203.15.7 and Port 1: 50005 — Click 'Set' at the bottom of the page
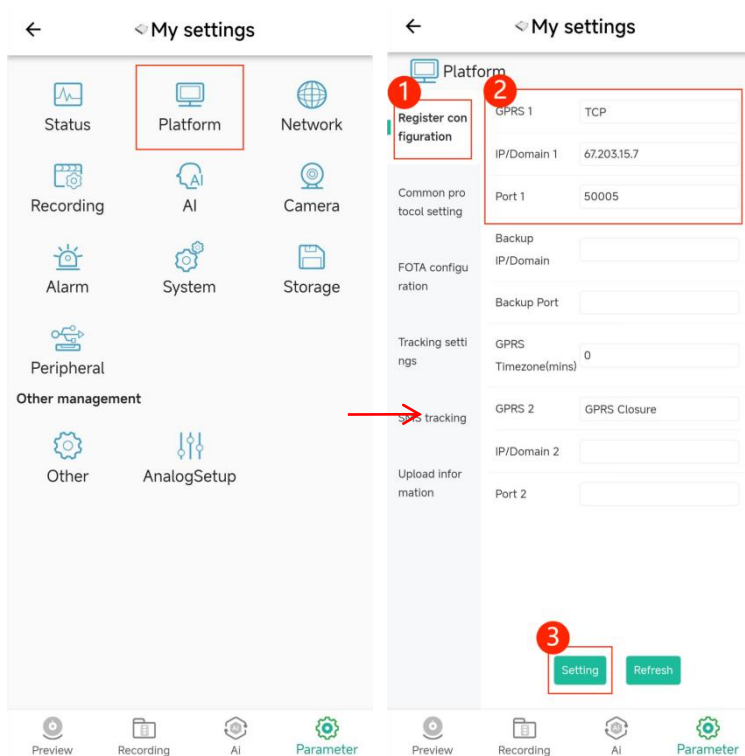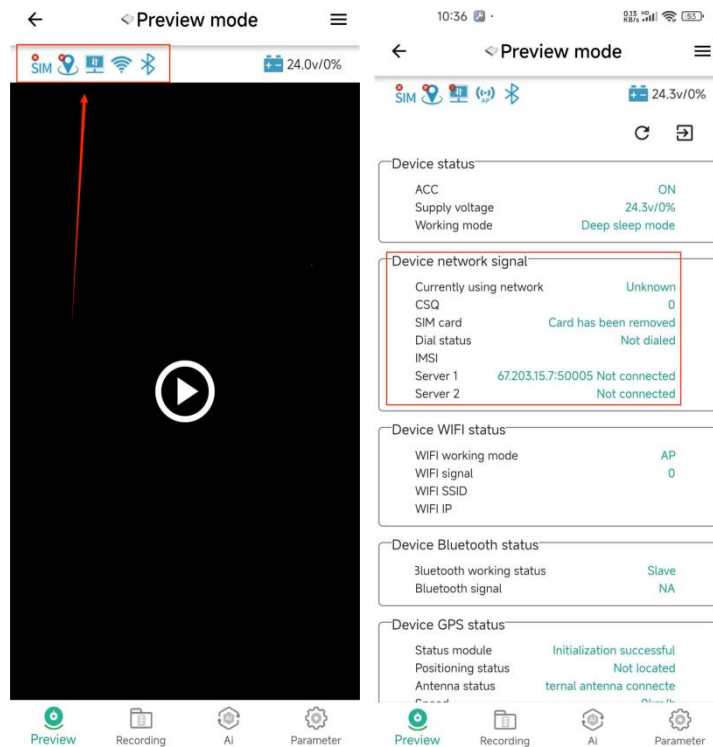

（5）Configure WIFI Parameters

Click sequentially — Network Settings — WIFI Settings — Nearby WIFI List — Refresh — Select and click a WIFI from the list — Enter the WIFI password above 'My WIFI' — Click Add — Click 'Set' at the bottom of the page
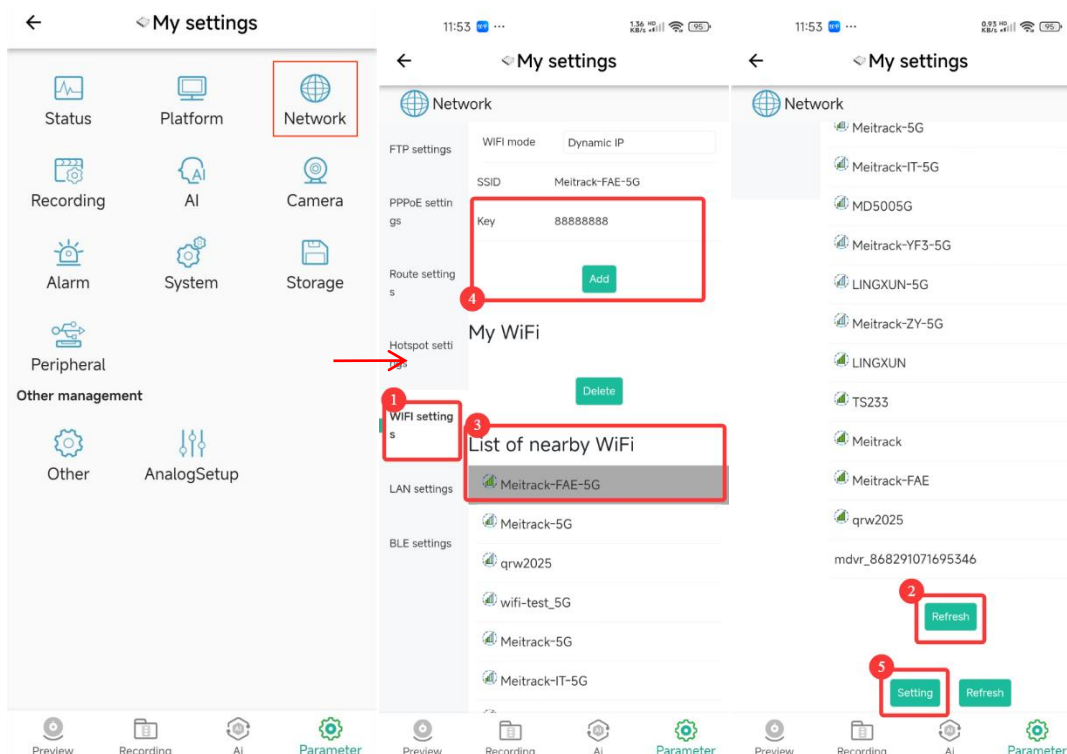
（6）Connection Status Check

Return to 'Preview', then click the status list in the upper-left corner to query 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, which will automatically recognize and read device information, then enter the basic settings page.

The following functions are available on the Basic Settings page:

① View basic device information such as IMEI number and FW Version.

② View the status of device modules including GSM and WIFI signal strength, and server connection.

③ Navigate to other functional pages via the navigation bar.
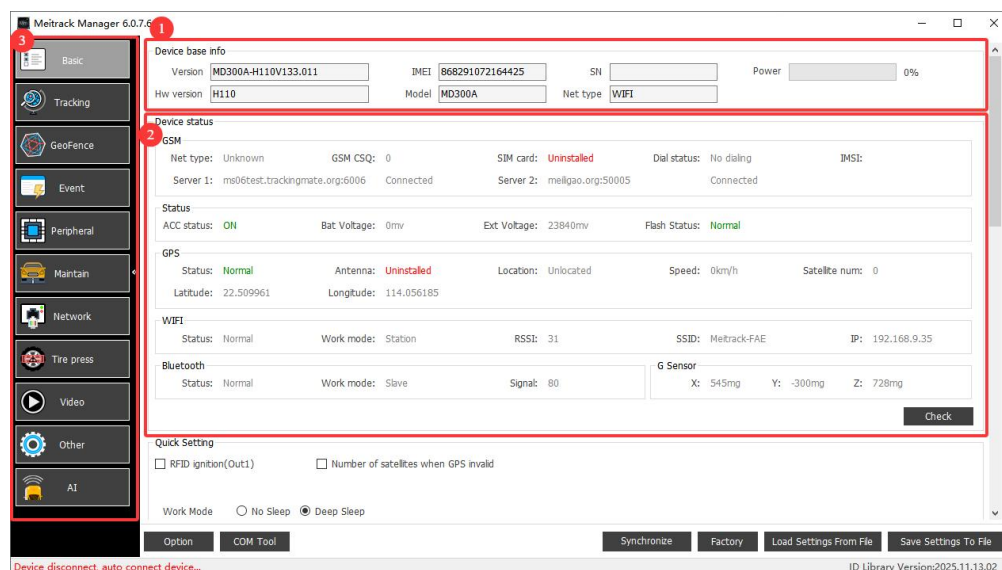
（2）Connection Settings

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

The secondary server can be configured to the right of the primary server; users must manually enter the IP and port.

Below, you can configure the Internet dial-up APN, Username, and Password.

Finally, do not forget to click 'Set' to save the settings.
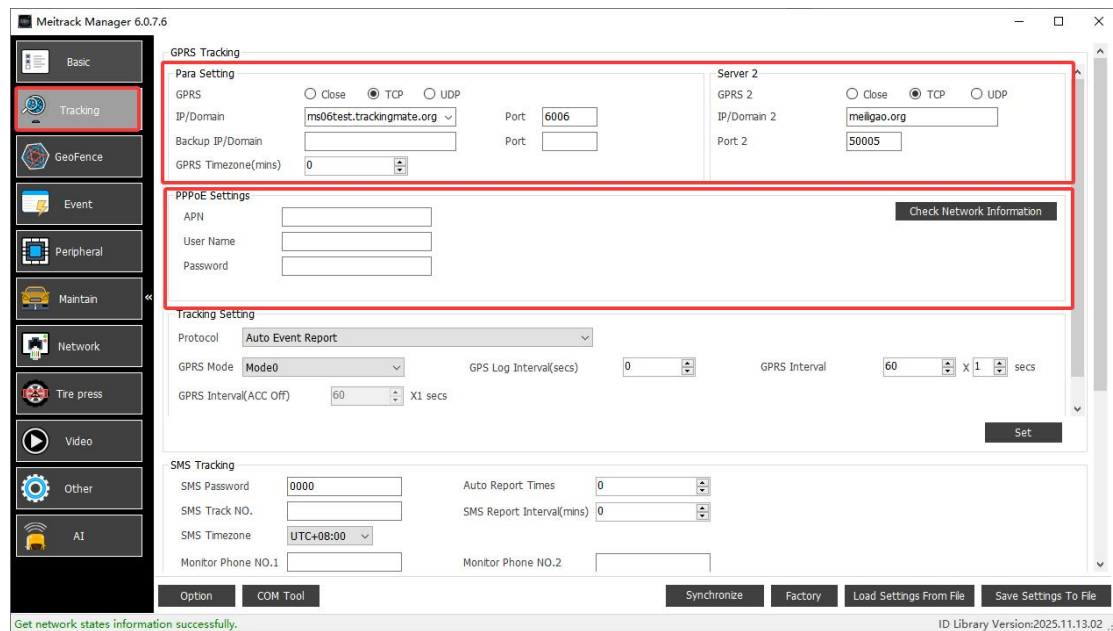
（3）Network Settings

Configure WiFi connection on the Network Settings page

① Locate the WiFi list settings and click Refresh to search for nearby WiFi networks

② Select the WiFi network from the WiFi list

③ Enter the password and click Add

④ Finally, click 'Set' to save the settings
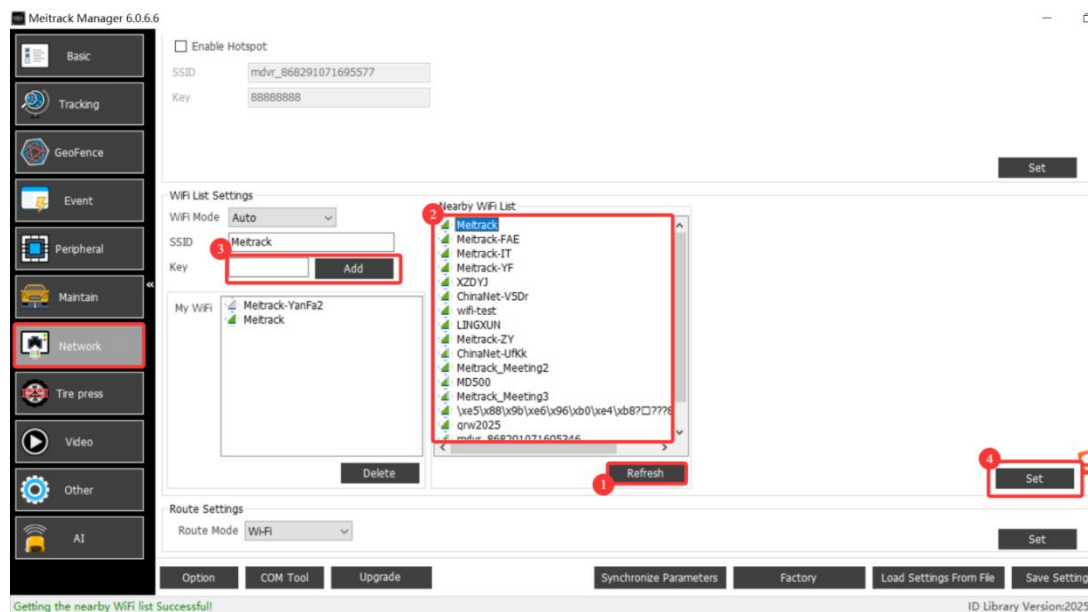
(4) Status Check

After completing the above steps, return to the Basic Settings page and click the 'Check' button to view the status of each device module. If the status displays 'Connected', the device has successfully connected to the platform. Proceed to add the device on the platform. For detailed instructions, refer to the platform setup guide.
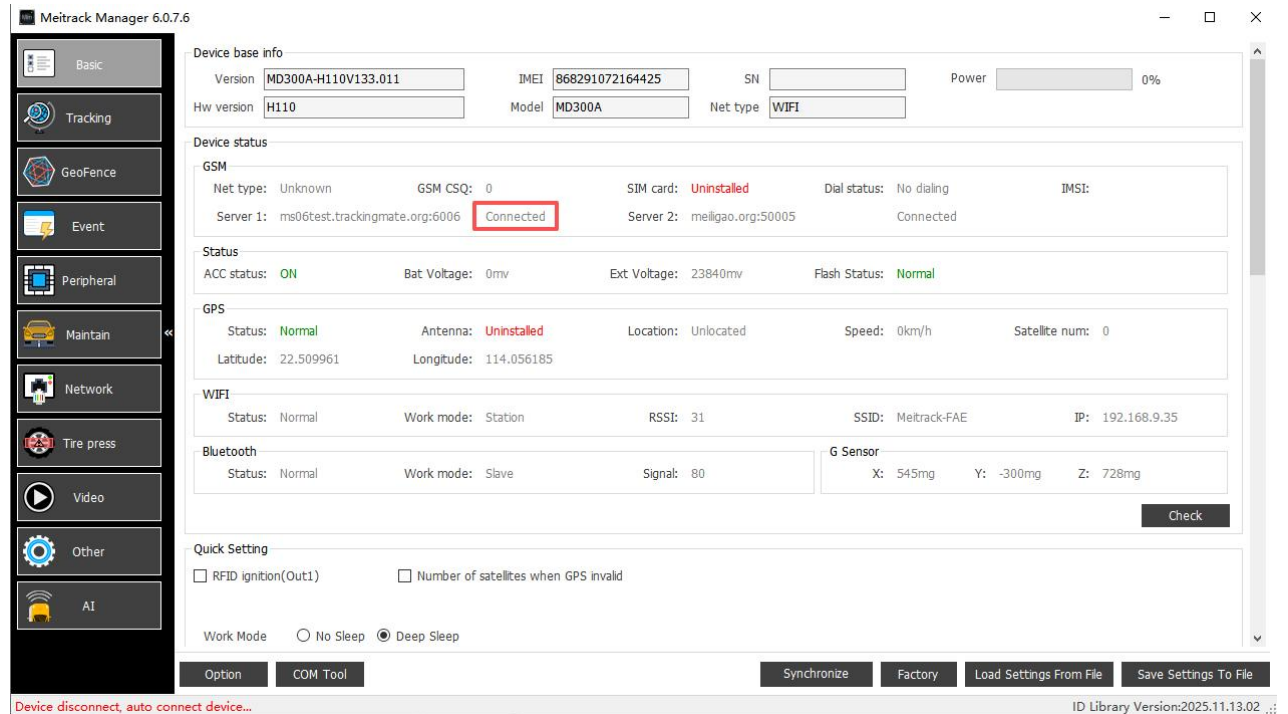

11 AI Alarm Settings

11.1 Verify whether the AI algorithm is activated

1. Open the Parameter interface as shown below: select 'Status', then select 'AI algorithm'; this allows you to verify whether the corresponding AI algorithm is activated on the device.
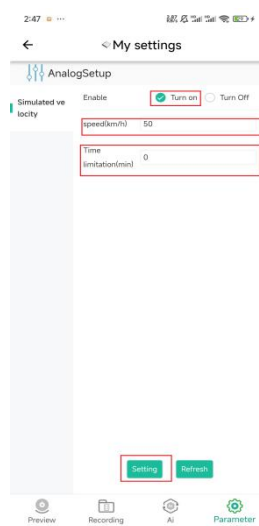

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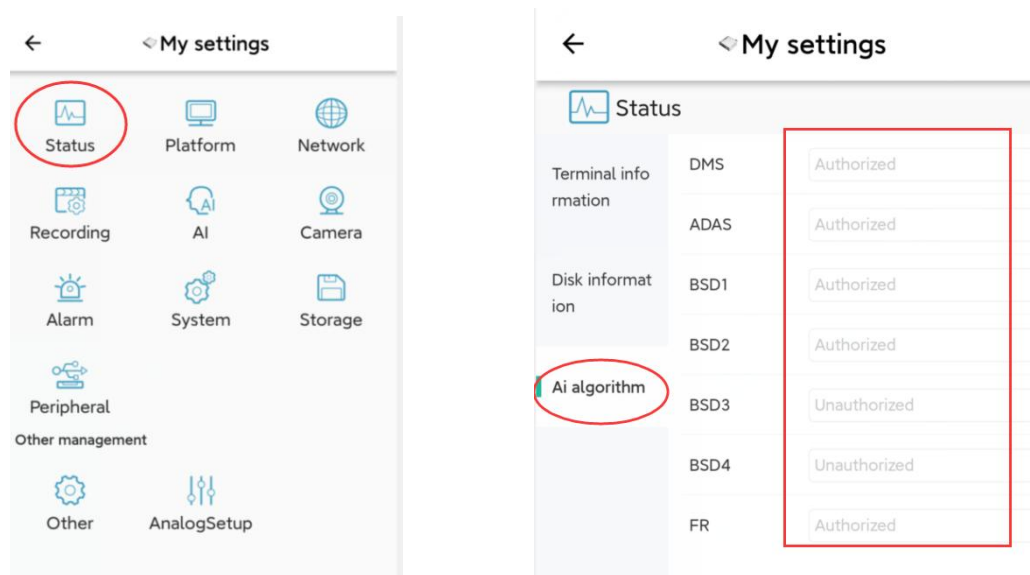
2 Alternatively, check via the following screenshot: M eitrack M anager configuration tool to verify whether the AI Algorithm is enabled.
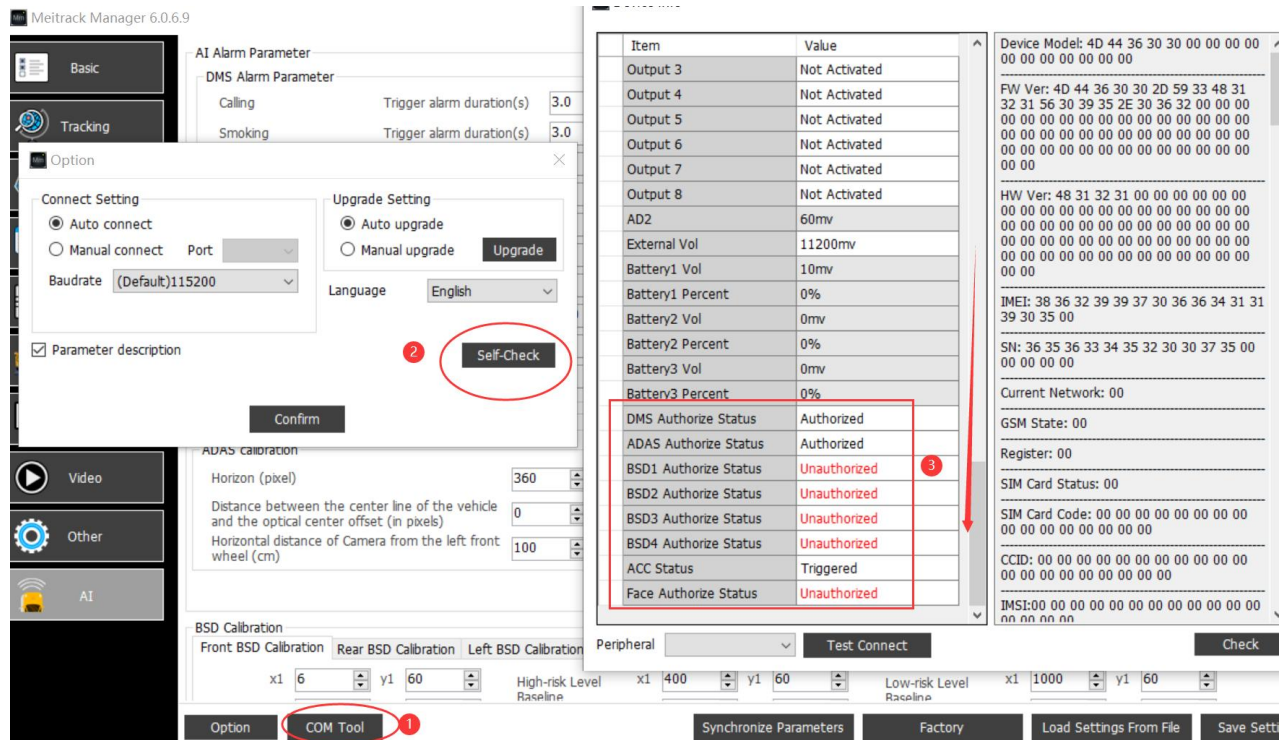
Note: If the AI Algorithm is not enabled, the corresponding AI functions will be unavailable.

11.2 Indoor test: enable Analog Speed

Application: For indoor testing of ADAS and DMS by enabling Analog Speed. Set the Analog Speed as illustrated below:

| Parameter	Description
Enable	Analog Speed toggle option
Speed (km/h)	The device automatically simulates the current driving speed to trigger specific conditional event feedback.
Duration (min)	Duration for which Analog Speed remains enabled to prevent forgetting to disable it, thereby avoiding false alerts during use. 0 indicates that analog speed is always On and does not turn Off

Note: After the device restarts, analog speed will be Off.

12 MD300 Function Settings,

12.1 Set Speeding, Sudden Acceleration\Sudden Deceleration, Collision Alarm

(1) Speeding: In the speeding event settings of MM, the alarm method can be set to SMS, Telephone, or GPRS.

Configure speeding speed alarm and detection time: When the device detects that the speed value exceeds the threshold continuously beyond the detection time threshold, a speeding alarm will be triggered.
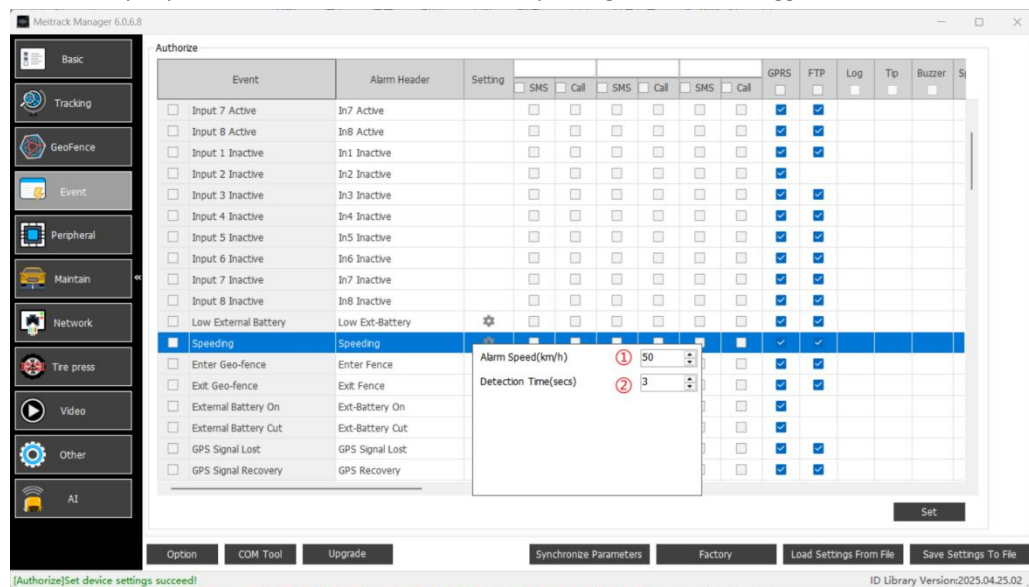

(2) Sudden Acceleration\Sudden Deceleration: In the sudden acceleration and sudden deceleration event settings of MM, the alarm method can be set to SMS, Telephone, or GPRS.

In sudden acceleration\sudden deceleration events, you may set ① initial speed, ② sudden acceleration\deceleration values, and ③ alarm duration;

① Initial Speed: The initial speed value that triggers sudden acceleration or deceleration;

② Sudden Acceleration/Deceleration Value: Set the threshold value for acceleration or deceleration to trigger.

③ Detection Time for Triggering Sudden Acceleration/Deceleration: Within this time range, the acceleration or deceleration value reaches the trigger threshold.


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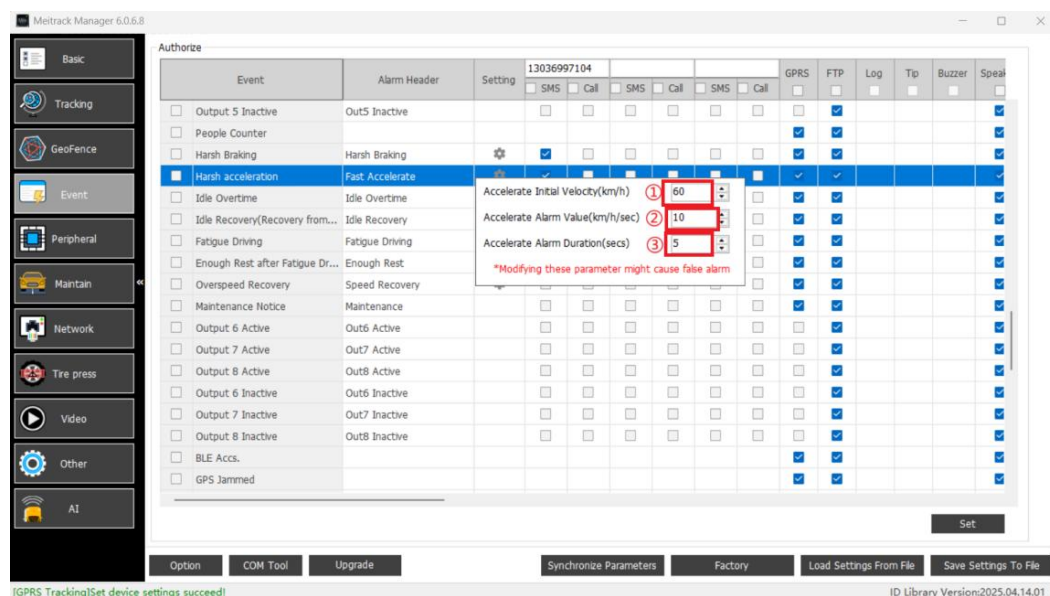
(3) Collision Alarm: In the MM impact event settings, the alarm method can be set to SMS, telephone, or GPRS;

① Alarm Acceleration: Set the acceleration threshold value that generates an impact event, unit mg, range 500–65535;

② Alarm Duration: Set the duration for generating an impact event, unit 10 ms, range 0–255;

Note: When the device is installed in the vehicle, it must be securely fixed to ensure accurate collision alarm detection. (The default values for small and large vehicles are identical. If frequent false collision alarms occur in practice, the collision acceleration threshold can be increased.)
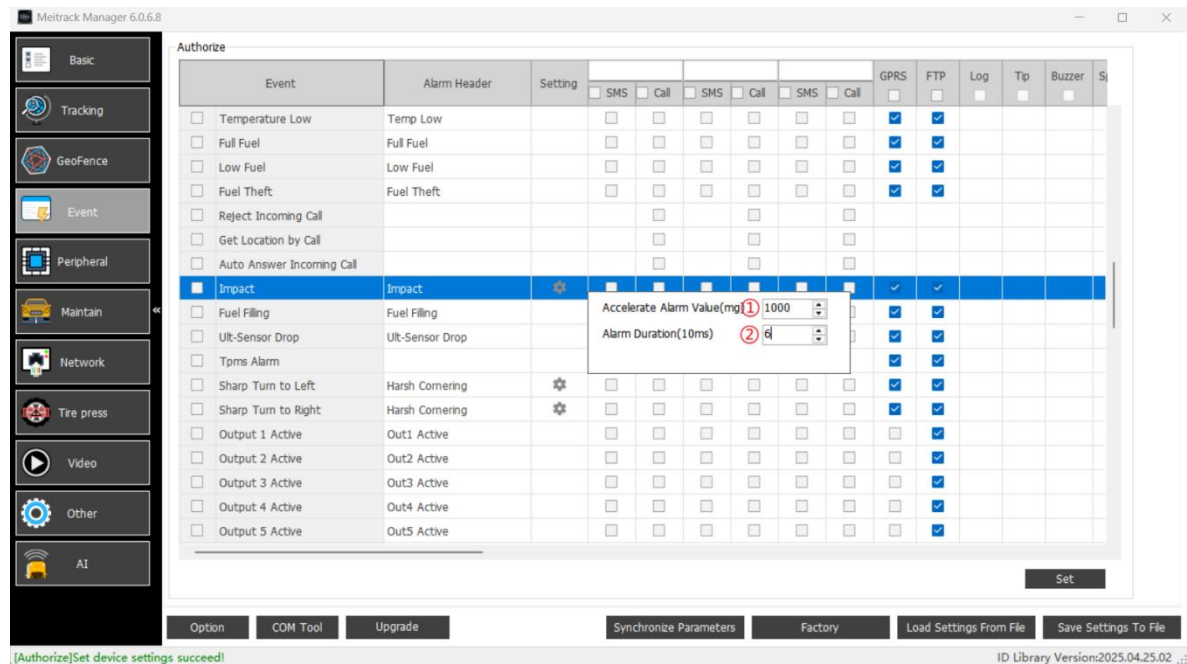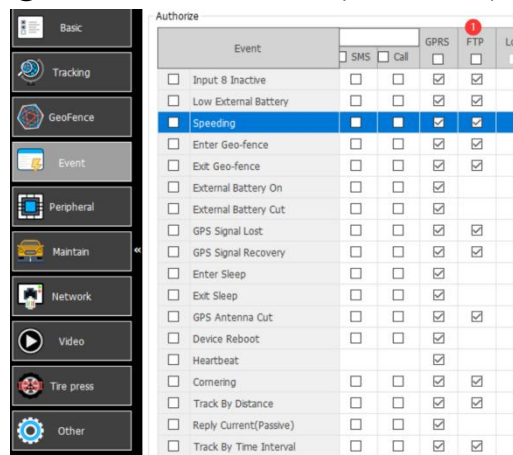

12.2 Upload alarm images and videos

12.2.1 Configure triggering of alarm photo capture and screenshots;

① Set whether to upload to the FTP server;

② The MD300A will automatically record and capture images only when DMS and ADAS events are triggered.
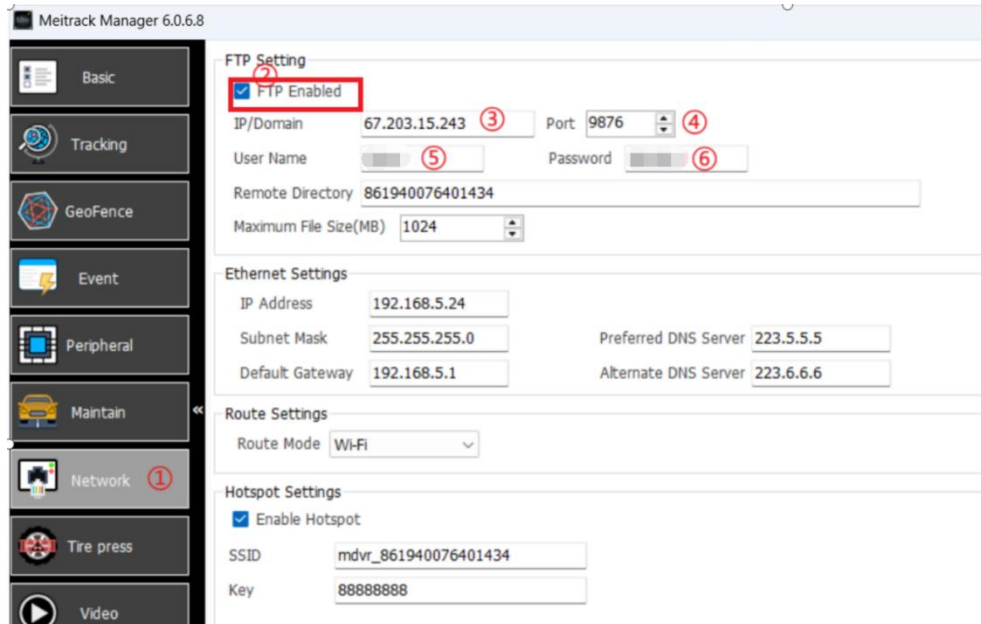
12.2.2 FTP server settings

① In network settings, enable ② FTP;

Enter ③ domain name, ④ port, ⑤ username, ⑥ password, then click Set.

Default FTP server IP: 67.203.15.243; Port: 9876.

The username and password are identical to those of the MS06 platform account.
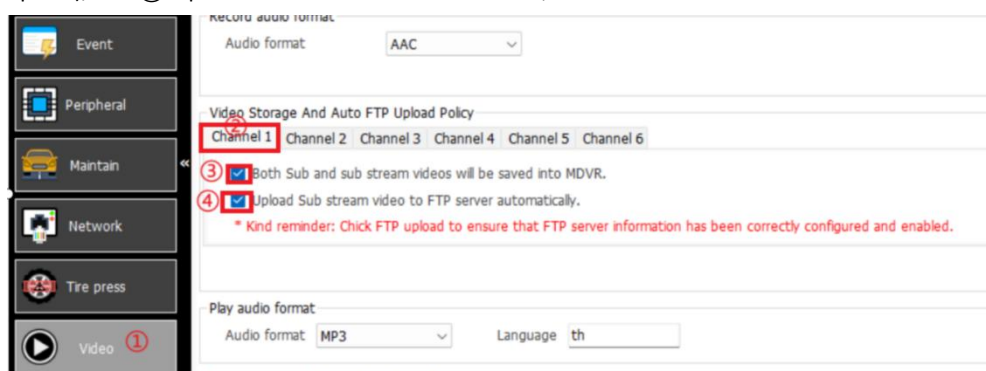

Note: Incorrect FTP server parameter settings will result in images and videos failing to upload properly to the FTP server.

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 select ② Camera Channel, ③ Real-Time Video Storage (if unchecked, real-time video will not upload), and ④ Upload Real-Time Video to FTP Server;


12.3 Event-triggered OUTPUT

This function allows events to control OUTPUT for low-level PWM output. OUTPUT can be connected to a relay, LED light, or buzzer.

For example: As shown below, a BSD event triggers OUTPUT1 to control the buzzer alarm.
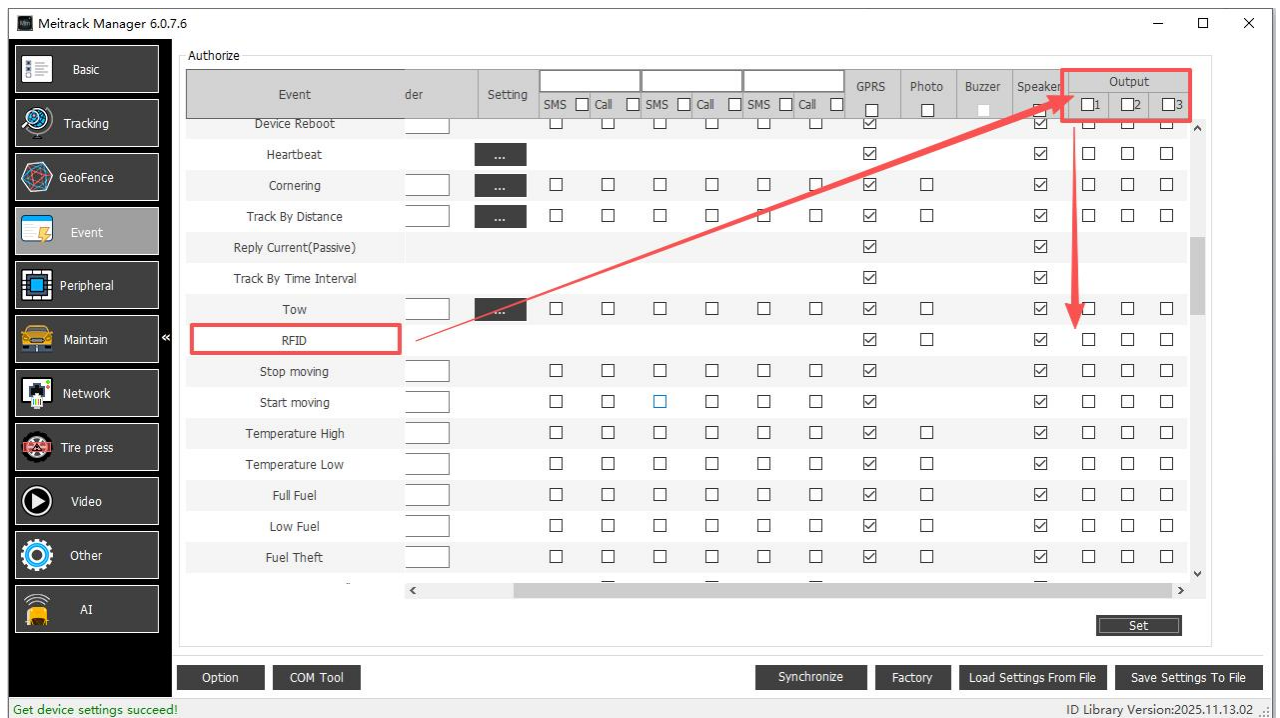
Set OUTPUT1 to low trigger and set the trigger duration to 1000 ms; the buzzer will sound for 10 seconds upon alarm activation and then automatically turn off.
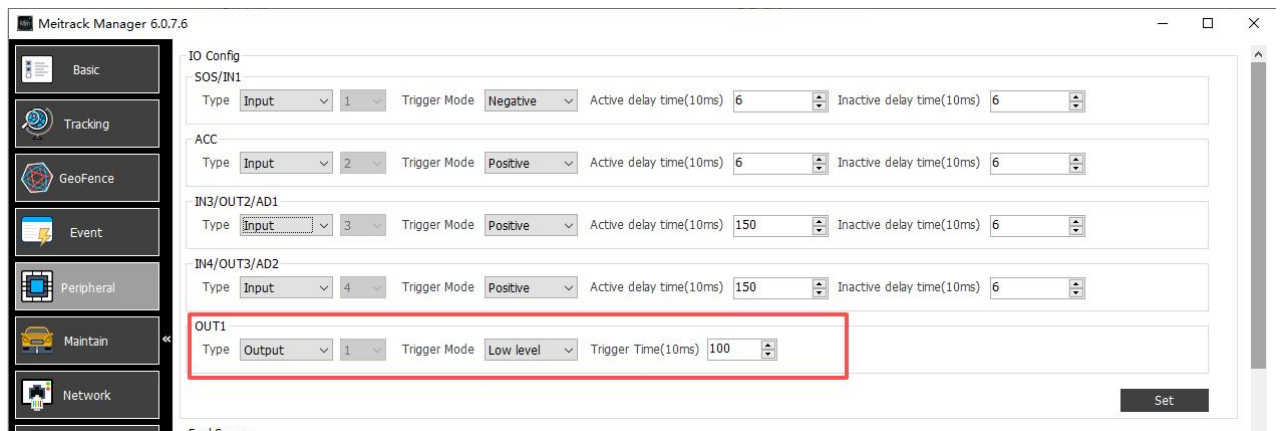
12.4 MTplayer Installation

Download link: https://www.meitrack.com/wp-content/uploads/h2025/MTPSetup.zip

Upon successful installation, an MTplayer shortcut will be created on the desktop.
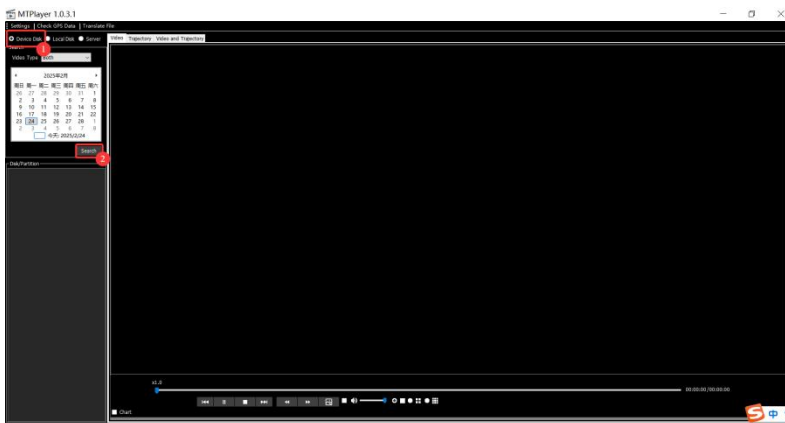
12.5 Storage Card Connection Between PC and MTplayer

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

2) Open MTplayer, select Local Disk, click 'Search'; when the search progress is complete, a prompt will indicate the search is finished.

12.6 MTplayer Page User Guide

1）The main section is the video playback window. Above the video playback window, the current video time and date are displayed; in the lower-left corner, detailed information such as the video's latitude, longitude, and speed is shown.

2）Below is the video playback console. In addition to basic video operations like play, pause, and fast forward, it is also possible to select multiple windows to play videos simultaneously in section ②.

3）On the left is the video file search navigation, which allows searching and selecting videos by date; In the date window, dates shaded dark in ① indicate video files are stored for that day, while light-shaded dates indicate no video files are stored; By double-clicking the date ①, you can enter the secondary page ③ for date-based video retrieval. Clicking the plus sign to the left of ③ expands the video files for different video channels. A plus sign indicates the presence of video files in that channel. Clicking it expands that channel's file directory. Double-clicking a file named by date on the right will play the corresponding video.
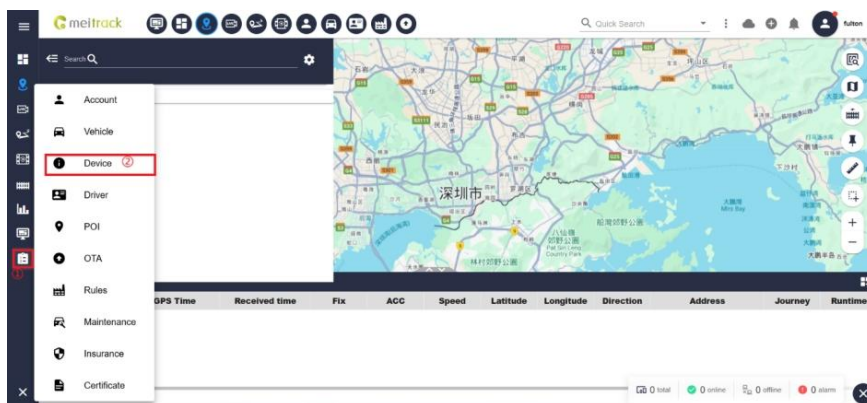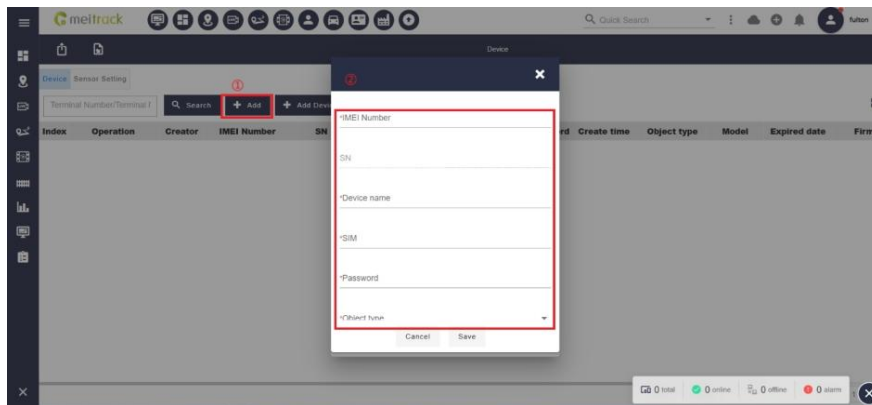
13 MS06 Platform

13.1 Bind Device

Enter https://ms06.trackingmate.com/loginPage to open the MS06 Official Website, then enter your account and password, and click login.
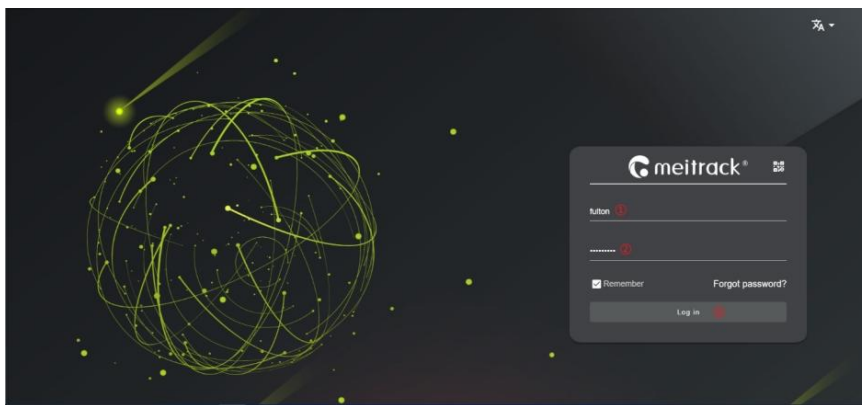
Click Device; select Add; complete all required fields marked with *; then click save.

Note: If you are uncertain, please refer to the detailed MS06 User Manual or contact Meitrack technical support for assistance.
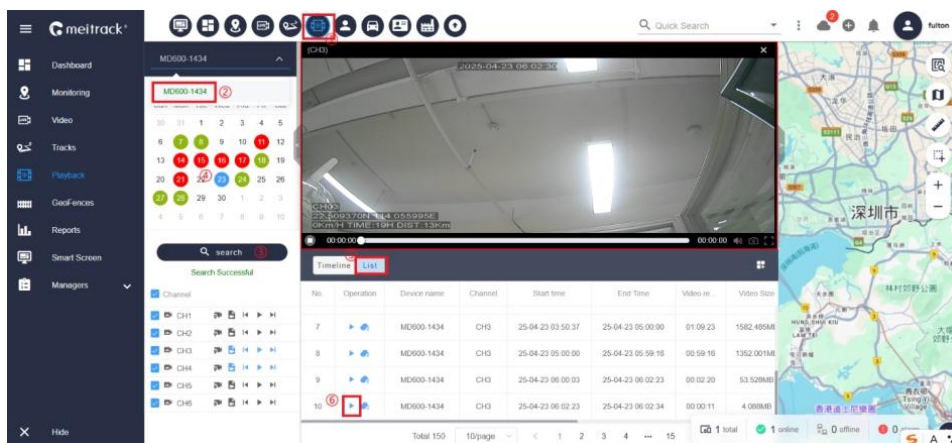
13.2 How to View Real-Time Video

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.

View Playback Video Image

Note: For additional features of the M S06 platform, please refer to the MS06 platform user manual.

If you have any further questions, please email us at info@meitrack.com. We are dedicated to assisting you.