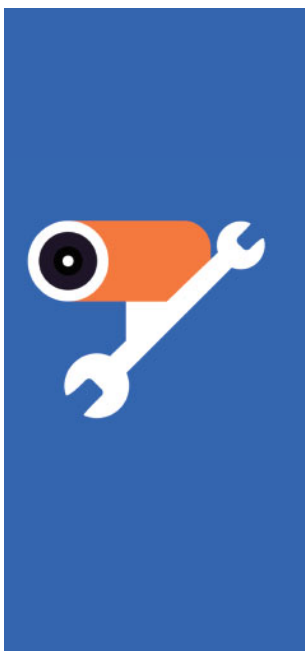


SelectCam



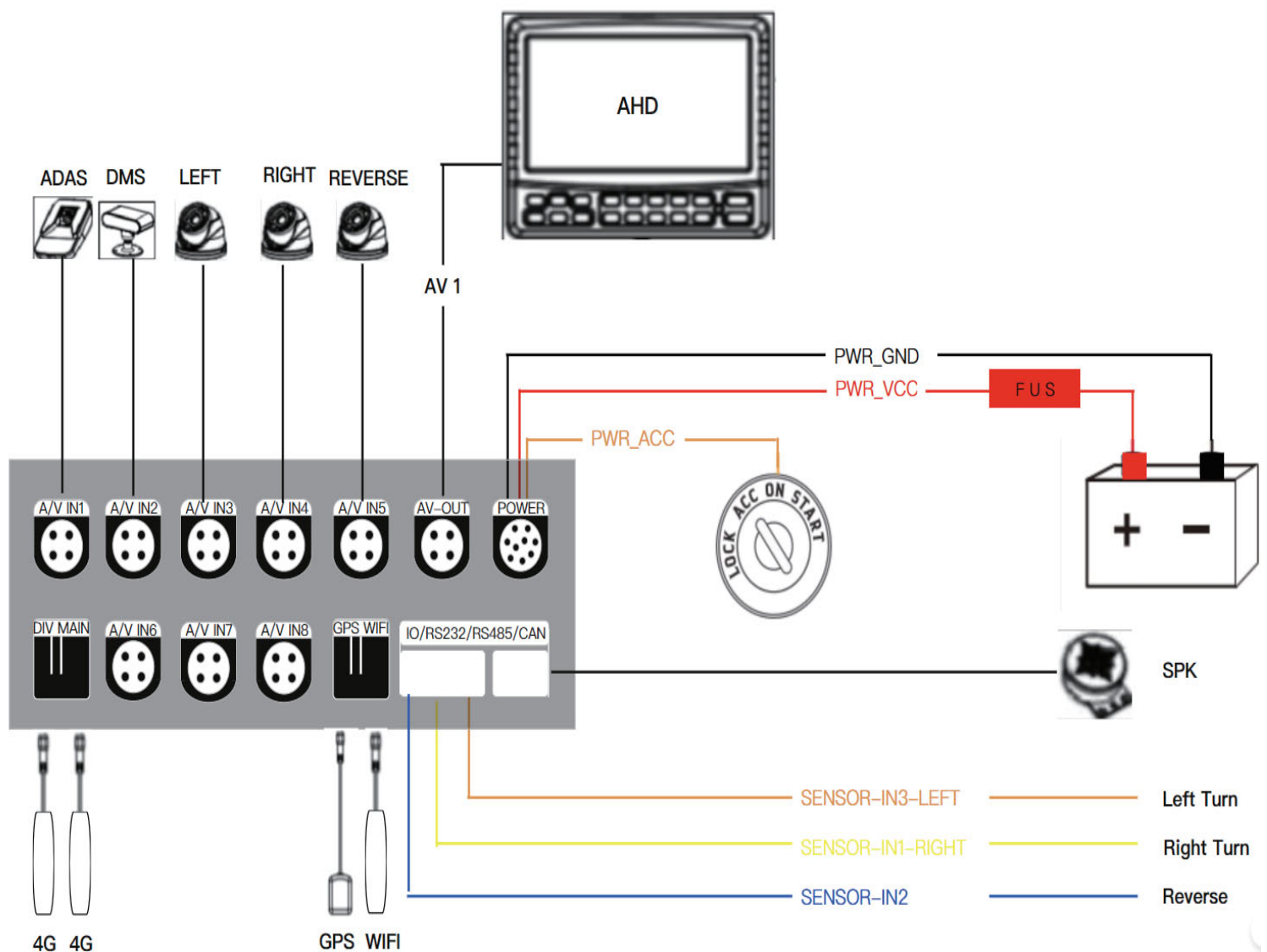
M8 - User Manual

Simple to use. Fast to act.

Introduction

Welcome to the M8 AI-Powered 4G MDVR. We're using the CamPerfect tool to assist. your smart companion for managing AI-powered 4G dash-cams and MDVRs. Designed for both fleet operators and installation teams, the app lets you view camera feeds, set APN, IP, and ports, adjust video resolution, calibrate AI function, and configure all essential device settings — right from your smartphone. CamPerfect also simplifies installation and maintenance, helping technicians get devices up and running quickly with minimal effort.

Wiring Diagram



Camera Wiring Instructions

A/V IN1: ADAS

A/V IN2: DMS

A/V IN3: Left Camera

A/V IN4: Right Camera

A/V IN5: Reverse Camera

A/V IN6 – A/V IN8: Connect according to the actual situation

AV-OUT: Connect the display as needed

Note:

- The default output shows four channels—**CH1, CH3, CH4, and CH5**. If you need to adjust the display layout, Please contact your supplier for assistance. The display is not included as standard and should be selected separately based on your needs.
- Upon triggering the left turn, right turn, or reverse, the corresponding display view will automatically zoom in. You can turn off this feature via the I/O Settings in the CamPerfect app.

Signal Wire Wiring Instructions

PWR_VCC: VCC Power Wire

PWR_ACC: ACC Control Wire

PWR_GND: GND Wire

SENSOR-IN1-RIGHT: Right Turn Signal Wire

SENSOR-IN2: Reverse Signal Wire

SENSOR-IN3-LEFT: Left Turn Signal Wire

Note: Refer to the wiring diagram to connect the two 4G antennas, one GPS antenna, and one Wi-Fi antenna.

Antenna Installation Notes

1. Antennas must face upward and remain unobstructed.
2. Maintain at least 20 cm of spacing between antennas.
3. Keep antennas away from other in-vehicle antenna devices.
4. Do not install antennas inside the dashboard.

App Installation

You can download and install the app for free by searching for **CamPerfect** in the Google Play Store or the iOS App Store



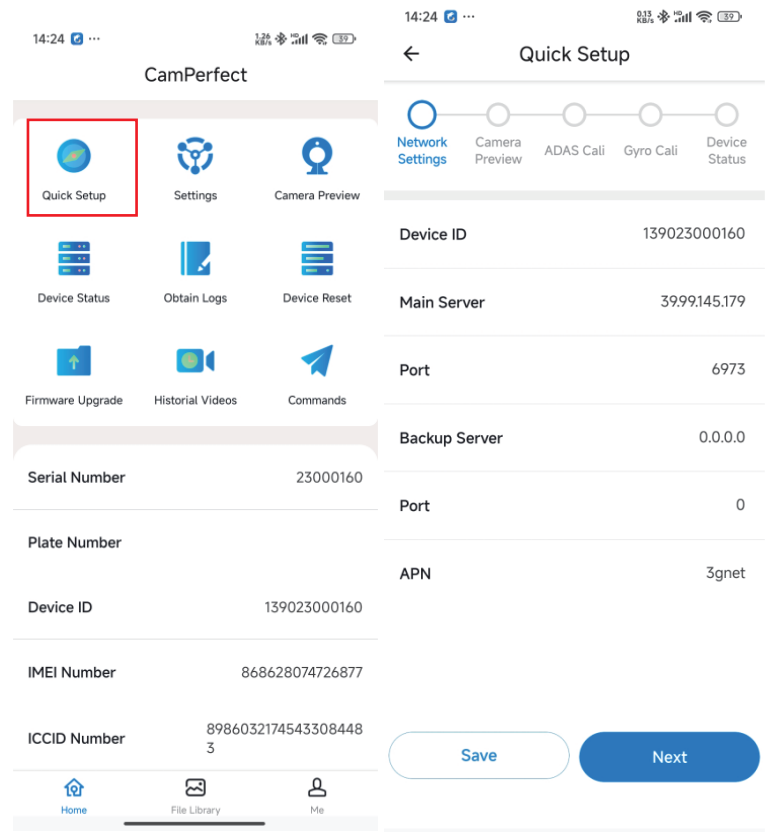
App And Device Connection

1. After install the CamPerfect app, open the app and the homepage will show you how to connect to the device.
2. Click the Connect WiFi button, and you will be redirected to the phone settings page. Select the WiFi hotspot sent by the device in the phone WiFi settings . The WiFi name is the device model + device SN number.
3. WiFi Password: The default WiFi connection password is **12345678**
4. After connecting to WiFi , return to the CamPerfect app page. Click Connect WiFi again to enter the Home page of the app.

Note: If you cannot enter the Home page by clicking Connect to WiFi again after connecting to WiFi in the CamPerfect app , please try turning off the data service on your phone.

Essential Parameters For First-Time Installation

When the device is being installed for the first time, you'll need to configure the **server IP** and **port**, **APN settings**, and **ADAS calibration parameters** such as vehicle dimensions. If the basic settings (like IP and port) have already been pre-configured by the supplier before shipment, you only need to input the **vehicle width**, **camera installation height**, and the **lateral offset from the vehicle's centerline**.



Note: Use Quick Setup for initial installation. For ADAS, DMS, BSD and other AI function, as well as recording, watermark, volume, and operating modes, go to Settings.

Quick Setup

The Quick Setup function is designed to streamline the installation process for technicians. By following the guided, step-by-step instructions, installers can rapidly complete the setup procedure.

Note:

- The Quick Setup function is intended for use during initial installation only. After installation is complete, if you need to modify certain parameters, please use the Settings function to make adjustments
- For ADAS cameras, adjust the side screws to ensure the lens is mounted horizontally and facing forward. After adjustment, securely tighten the screws.

1. Network Settings: Configure the target server IP, port, and SIM card APN settings.
2. Camera Preview: Verify the camera image displays correctly.
3. ADAS Cali: To ensure accurate ADAS performance, enter the mandatory device installation parameters.
4. Gyro Cali: Calibrate the gyroscope's Z-axis while the vehicle is stationary.
5. Device Status: Check device status: GPS, 4G, recording, server connection, etc.

The image displays five sequential screenshots of a mobile application's 'Quick Setup' screen, illustrating the configuration steps for an ADAS device.

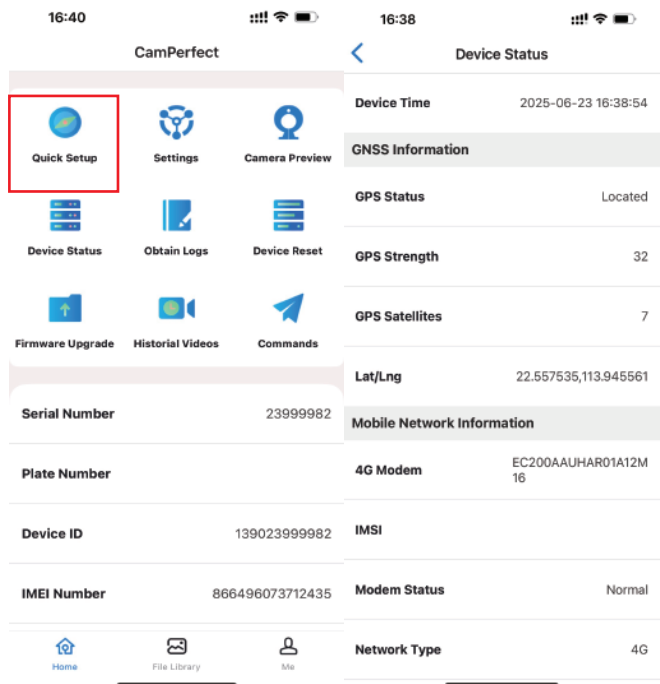
- Screenshot 1 (Network Settings):** Shows fields for Device ID (139023000160), Main Server (3999145179), Port (6973), Backup Server (0.0.0.0), Port (0), and APN (3gnet). Navigation buttons: Save, Next.
- Screenshot 2 (Camera Preview):** Displays a live camera feed. Navigation buttons: Return, Next.
- Screenshot 3 (ADAS Cali):** Shows input fields for Camera Height (mm) (1800), Vehicle Width (mm) (2000), and Lateral Offset (mm) (Right > 0). Includes a diagram of a vehicle with camera mounting points and a 'Calibrate' button. Navigation buttons: Return, Next.
- Screenshot 4 (Gyro Cali):** Displays a message: 'Once the device's main unit is securely mounted, click the calibration button below to start the gyroscope calibration.' Navigation buttons: Return, Next.
- Screenshot 5 (Device Status):** Shows device information including Device Time (2025-08-26 14:24:56), GNSS Information (GPS Status: Located, GPS Strength: 33, GPS Satellites: 15, Lat/Lng: 22.557289113,945643), and Mobile Network Information (4G Modem: EC200AEUHAR01A2IM1 6). Navigation buttons: Fetch, Return, Save.

Supplementary Notes on Device Installation Parameters

- **Camera Height:** The height of the ADAS camera measured from the ground.
- **Vehicle Width:** The distance between the outermost points of the left and right tires.
- **Lateral Offset:** If the ADAS camera cannot be mounted exactly on the vehicle's centerline due to angle or obstruction, specify whether it is offset to the left or right, and provide the precise offset distance. This ensures accurate algorithm calibration.

Confirm The Status After The Device Is Installed

After quick setup, verify the device status through the Device Status menu, checking network and GPS signals, SSD and micro SD card condition, camera connections, and APN settings.

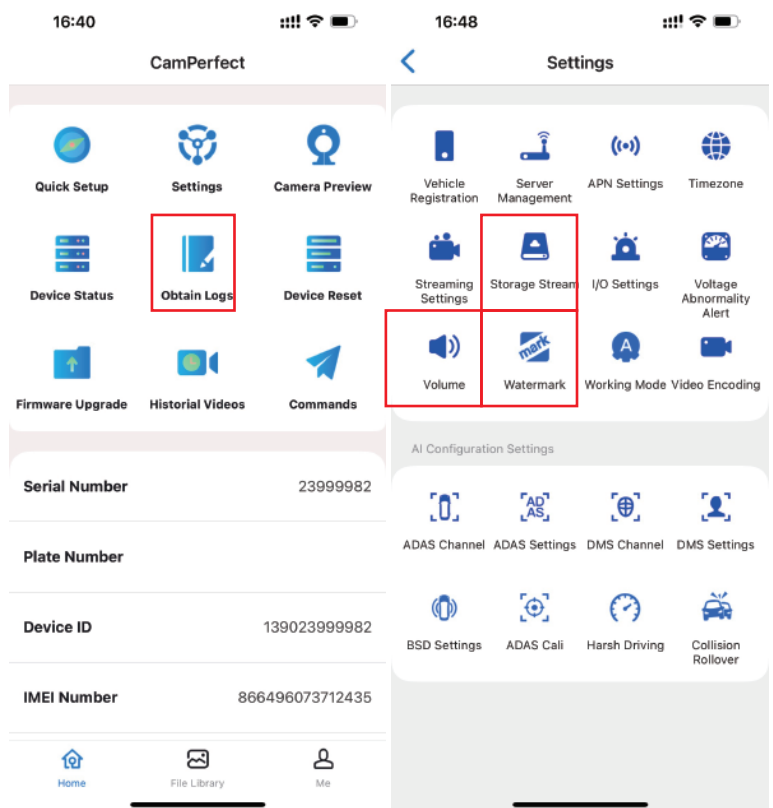


Basic Function Settings

After installation, update the device's basic parameters in the Settings menu.

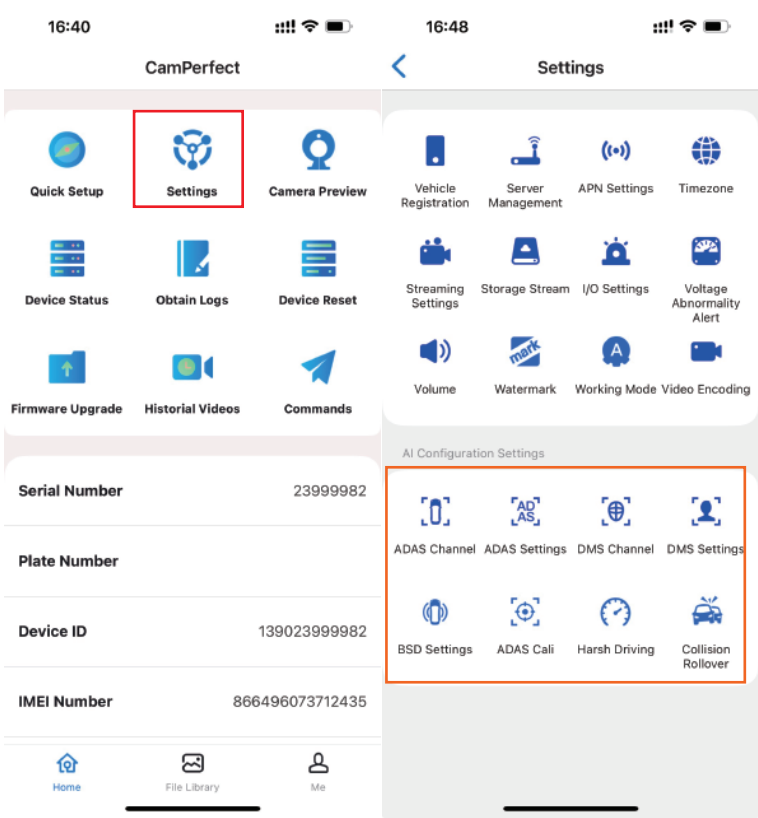
Note:

- If the platform address is a domain name, configure it under Server Management.
- Streaming settings allow you to adjust resolution, FPS, and bitrate—parameters that affect the size of recorded video files.
- Storage stream defines the recording storage location, which should be set according to the actual installed storage.



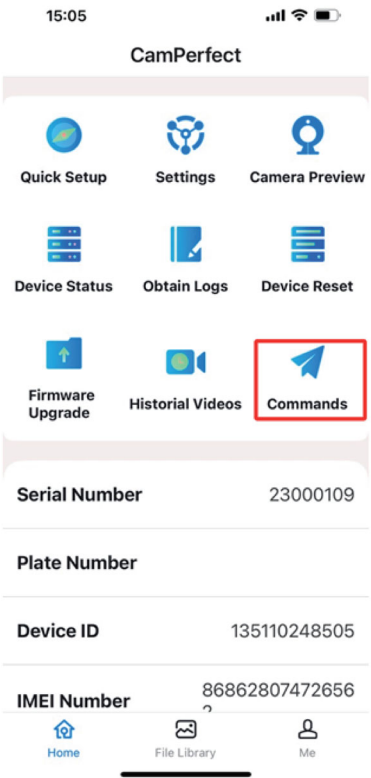
AI Algorithm Function Settings

The threshold and sensitivity of AI algorithms—including ADAS, DMS, BSD, harsh driving, collision, and rollover alerts—can be adjusted in the AI Configuration Settings menu. Only ADAS and BSD require camera installation details for calibration, while DMS and other algorithms do not require special calibration.



Sending Text Commands

For certain less common functions and parameters that cannot be adjusted directly in the app, you can use text commands. Please consult your supplier for the specific commands.



Default Parameter Settings Need to Know

The default values for other parameters are listed below and can be adjusted as needed via the CamPerfect app's Settings function.

- **Time Zone:** The time zone setting in the CamPerfect app only affects the Watermark time display. GPS location time is reported to the server based on **UTC+0**.
- **External Cameras:** By default, the device only supports **1080p** cameras. If you need to connect a **720p** camera, a specific command must be sent. Please contact your supplier for assistance.
- **Streaming Settings:**

	Main-Stream			Sub-Streaming		
	Resolution	FPS	Bitrate	Resolution	FPS	Bitrate
Channel 1	1080p	25	High	D1	15	Low
Channel 2	1080p	15	High	D1	15	Low
Channel 3	1080p	15	High	D1	15	Low
Channel 4	1080p	15	High	D1	15	Low
Channel 5	1080p	15	High	D1	15	Low
Channel 6	1080p	15	High	D1	15	Low
Channel 7	1080p	15	High	D1	15	Low
Channel 8	1080p	15	High	D1	15	Low

- **Note:**
- The device supports recording of **8 main streams and 8 sub-streams**. By default, channels CH1–CH5 are enabled for recording. Recording for CH6–CH8 must be manually enabled through the CamPerfect app according to the actual installation.
- The device supports 1080p high-resolution live streaming. For smooth performance, we recommend viewing one channel at a time when using the main stream (high resolution). With the sub-stream (lower resolution), up to eight channels can be streamed simultaneously.
- **Storage Stream:** The main stream is recorded to **SD1 or SSD**, and the sub-stream to **SD2**. Either the SSD or SD1 can be installed. For normal recording operation, the device requires both SSD and SD2, or SD1 and SD2, to be inserted simultaneously.; otherwise, the REC indicator will turn red. SSD supports up to **2T**, Each micro SD card supports up to **512GB**. We recommend using **industrial-grade** micro SD cards for better performance and reliability.
- A hard drive bracket is included as standard with the product. For installation, the curved surface should face upward and the hard drive contacts should face downward, as illustrated in the screenshot.
- **To ensure that recording functions properly, please navigate to the Device Reset menu in CamPerfect and perform Format Local Disk.**



▪ Default ADAS Settings

Function	Algorithm Sensitivity	Alert Interval	Working Speed
FCW	Medium	20 seconds	Above 30km/h
HMW	Low	20 seconds	Above 50km/h
PCW	Medium	20 seconds	1 ~ 30 km/h
LDW	Medium	20 seconds	Above 55km/h

▪ Default DMS Settings:

Function	Algorithm Detection time	Alert Interval	Working Speed
Driver Eye Closed	2 seconds	60 seconds	Above 20km/h
Driver Yawning	2 seconds	60 seconds	Above 20km/h
Driver Distraction	2 seconds	60 seconds	Above 20km/h
Driver Smoking	2 seconds	60 seconds	Above 20km/h
Driver Phone Use	2 seconds	60 seconds	Above 20km/h
Seat Belt Non-Fastened	10 seconds	300 seconds	Above 20km/h
No Driver Detected	120 seconds	3600 seconds	Above 20km/h
DMS Camera Obstructed	120 seconds	3600 seconds	Above 20km/h

AI Function Configuration Details

6:34

39%
B/s

20

←

ADAS Settings

Alert Type 1

Forward Collision Warning >

Algorithm Switch 2

☒

Level 1 Alert Enabled 3

☐

Level 2 Alert Enabled 4

☒

Level 1 Alert Attachment Switch 5

☐

Level 2 Alert Attachment Switch

☒

Event Upload Interval (s)

20

Algorithm Sensitivity

Low >

Alert Trigger Interval (s)

20

Alert Sound Interval (s)

20

Level 2 Alert Working Speed (km/h)

50

Pre/Post-Event Footage Length

5

Alert-Triggered

2

Fetch

Save

1. Alert Type: Select the AI function you want to view or configure.

2. Algorithm Switch: Turn this AI function on or off.

3. Level 1 Alert Enabled: Level 1 alerts are triggered when the AI function is active and the vehicle speed is above the minimum working speed but below a defined threshold (e.g., under 50 km/h). These alerts indicate lower-risk situations. Use this option to enable or disable Level 1 alerts for the selected AI function.

4. Level 2 Alert Enabled: Level 2 alerts are triggered when the AI function is active and the vehicle speed exceeds a defined threshold (e.g., over 50 km/h). These alerts represent higher-risk situations. Use this setting to enable or disable Level 2 alerts for the selected AI function.

5. Level 1 Alert Attachment Switch: This setting determines whether media attachments (such as one or three images, or a short video clip) are uploaded when a Level 1 alert is triggered for the selected AI function under the JT/T protocol.

AI Function Configuration Details

6:34

39% B/S

20

←

ADAS Settings

Alert Type

Forward Collision Warning >

Algorithm Switch

Level 1 Alert Enabled

Level 2 Alert Enabled

Level 1 Alert Attachment Switch

Level 2 Alert Attachment Switch 6

Event Upload Interval 7 (s)

20

Algorithm Sensitivity 8

Low >

Alert Trigger Interval 9 (s)

20

Alert Sound Interval (s)

20

Level 2 Alert Working Speed (km/h)

50

Pre/Post-Event Footage Length

5

Alert-Triggered

2

Fetch

Save

6. Level 2 Alert Attachment Switch:

This setting determines whether media attachments (such as one or three images, or a short video clip) are uploaded when a Level 2 alert is triggered for the selected AI function under the JT/T protocol.

7. Event Upload Interval (s):

If this AI function is triggered too frequently, this setting defines the minimum interval (in seconds) between uploads. Repeated alerts triggered within this interval will not be uploaded to avoid redundancy.

8. Algorithm Sensitivity:

Adjust the sensitivity level of this AI function. Users can select the appropriate level based on their driving style and vehicle type.

9. Alert Trigger Interval (s):

The minimum time interval between two alerts triggered by this AI function. It is recommended to use the default value.

AI Function Configuration Details

21:23

0.38 KB/s

4G

97%

←

ADAS Settings

Alert Type

Forward Collision Warning >

Algorithm Switch

Level 1 Alert Enabled

Level 2 Alert Enabled

Level 1 Alert Attachment Switch

Level 2 Alert Attachment Switch

Event Upload Interval (s)

20

Algorithm Sensitivity

Medium >

Alert Trigger Interval (s)

20

Alert Sound Interval (s)

10

20

Level 2 Alert Working Speed (km/h)

11

40

Pre/Post-Event Footage Length

12

5

Alert-Triggered Image Count

13

0

Alert-Triggered Image Interval (ms)

14

2

Fetch

Save

10. Alert Sound Interval (s):
If this AI function is triggered frequently, this setting allows you to mute repeated alert sounds within a defined time interval to improve the user experience. It does not affect event uploads to the cloud server.

11. Level 2 Alert Working Speed (km/h):
When using the JT/T protocol, this setting defines the speed threshold that differentiates Level 2 alerts from Level 1 alerts for the selected AI function. Level 2 alerts indicate higher-risk situations.

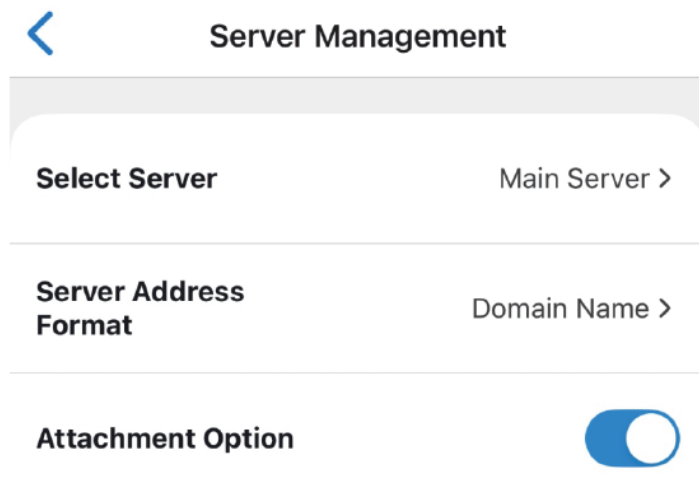
12.Pre/Post-Event Footage Length:
Specifies how many seconds of video to record before and after the AI event is triggered. For example, if set to 5 seconds, a total 10-second event clip will be saved.

13. Alert-Triggered Image Count:
Specifies the number of image attachments to be uploaded when this AI function is triggered.

14.Alert-Triggered Image Interval (ms):
The time interval in milliseconds between each image captured when multiple images are triggered by this AI function.

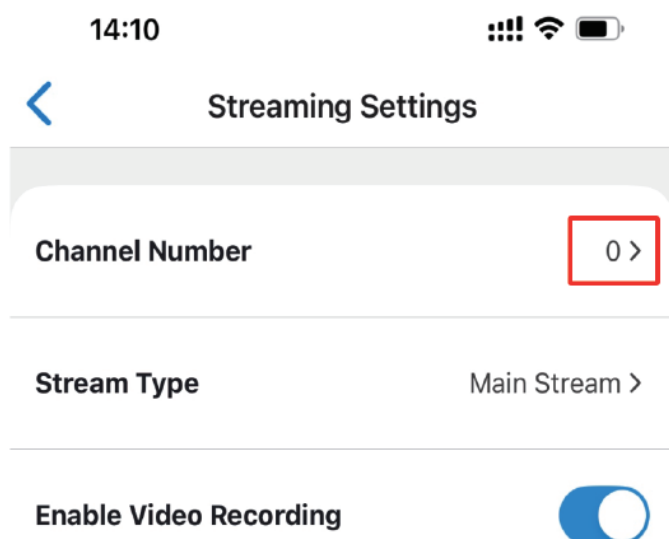
Important Notices

1. When using the JT/T protocol, this setting determines whether media attachments (such as images or video) are included when AI alerts are uploaded to the specified server and port.



2. After completing the Quick Setup or configuring the host & port via Server Management in Settings, it's best to restart the device. This ensures that the configured parameters take effect quickly, as some settings require a restart to be applied.

3. In Streaming Settings, Channel Number 0 represents the first channel, 1 represents the second, and the pattern continues accordingly



FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.