



Sentry AI Camera

S5

Product User Manual



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Preface

About This Product User Manual

This product user manual provides detailed information about the components and functions of the S5 product. All content, including text, images, and graphics, is the property of Shenzhen Streamax Technologies Co., Ltd. No part of this document may be reproduced, extracted, or modified without prior written consent from the company. Unless otherwise stated, this manual does not offer any form of warranty.

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Symbol Explanation

The following symbols are used to categorize and explain potential hazards that may arise from improper operation

Symbol	Explanation
	Warning: Conditions that could jeopardize the safety of the user or cause injury
	Important: Conditions that may lead to data corruption or damage to the device’ s firmware or hardware
	Note: Additional information, explanations of terms, and other relevant details

Product Overview

Product Introduction

The S5 is an AI-powered intelligent sentinel camera engineered to ensure comprehensive asset protection. Designed for continuous 24/7 operation, it provides uninterrupted high-definition monitoring to capture every critical moment. Featuring ultra-low power consumption and AOV standby mode, the S5 remains active even when the vehicle is turned off, maintaining constant security coverage. Integrated 4G, Wi-Fi, and GNSS modules enable real-time transmission of vehicle location, status, and operational data to the platform, supporting remote communication and video playback for precise asset management and control.

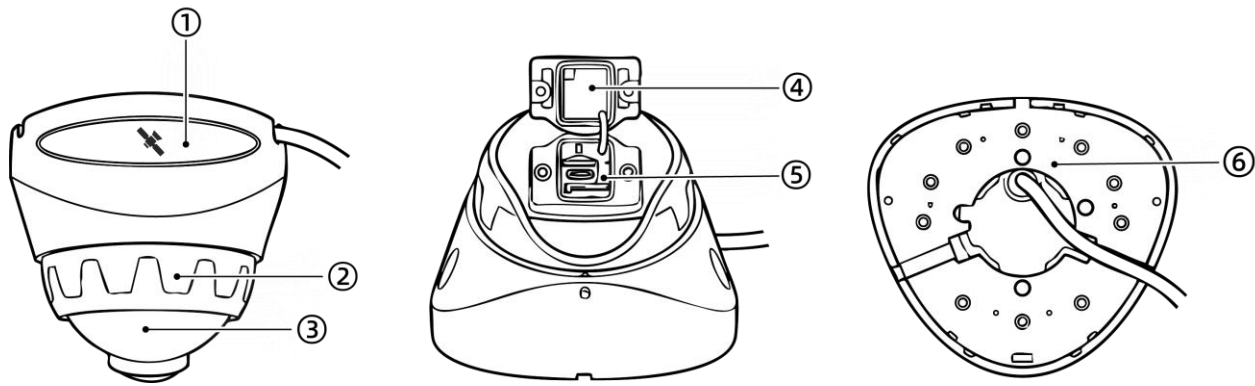
Product Features

- Built-In one ultra-wide-angle lens with up to 2 Megapixels HD video recording, supporting black light technology
- Supports human posture detection for accurate identification of theft.
- Supports H.264/H.265 encoding
- Supports 1*Micro SD storage ,up to 1TB
- Built-in Wi-Fi, 4G Cat1 communication module, and inertial navigation module
- Video data supports AES256 encryption
- Supports 1 channels of I/O input, 1 channels of I/O output and 1 RS232 channel
- Supports normal mode and AOV ultra-low power consumption mode
- Built-in 6-axis gravity sensor, supports detection of rapid acceleration, rapid deceleration, sharp turns, and collisions
- Built-in battery and can keep working for 5 minutes in case of a power outage (optional)

AI Features

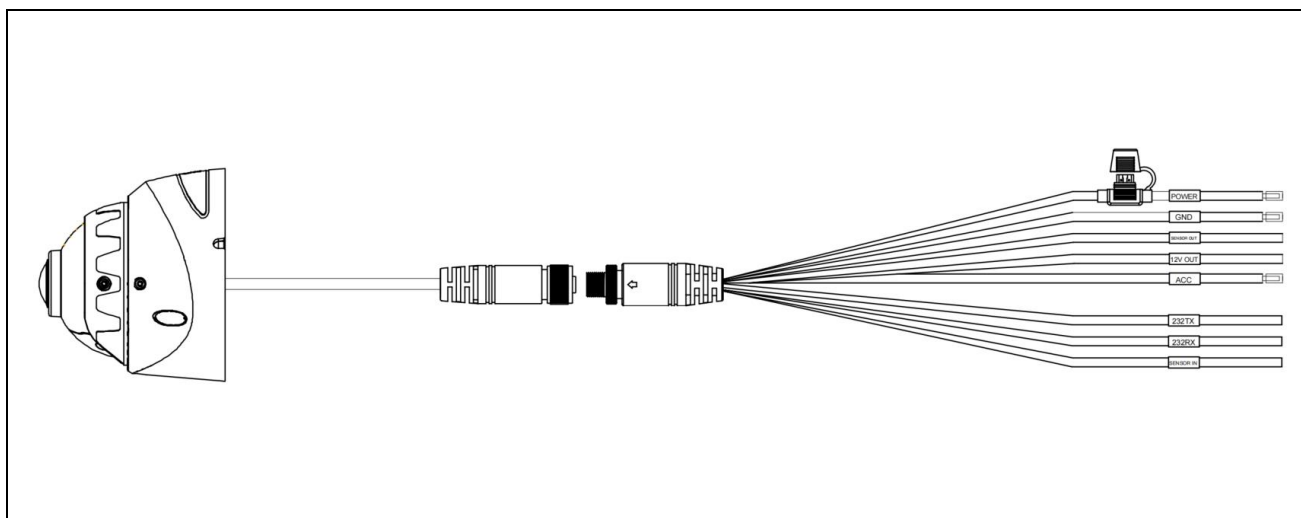
	
Vehicle contact inspection	Suspicious target detection

Product Appearance and Component Names

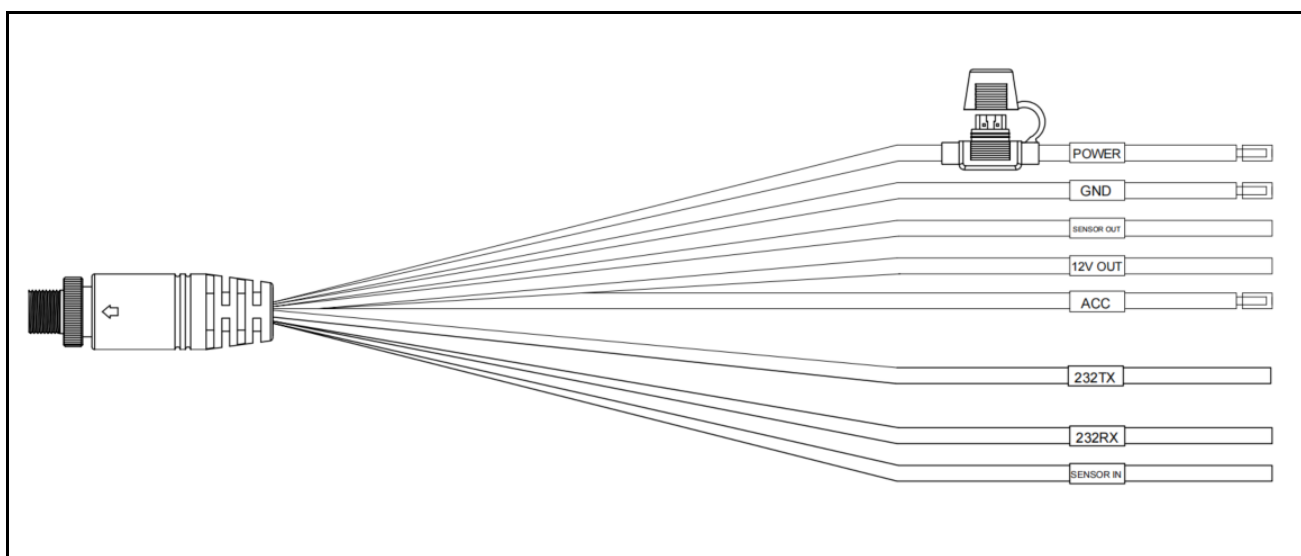


No.	Components
1	GPS positioning module
2	Horizontal Angle Adjustment Disc
3	Vertical angle adjustment sphere
4	TF card, SIM card cover
5	TF card slot, SIM card slot, USB 3.0
6	Rigid mounting base

System Connection Diagram



Cables



Device Login



Note

AP Mode: To connect to the device's Wi-Fi hotspot, the device must be in AP mode. The device will be in AP mode for the first 3 minutes after startup. You can also switch to the AP mode by changing the Wi-Fi mode on your device.

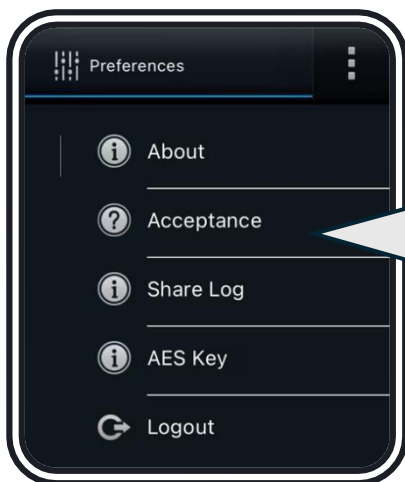
Mobile App Installation:

- For Android users, search for Veyes in Google Play to download
- For iPhone users, search for Veyes in the App Store to download



The image shows a mobile app login screen with a dark background. At the top, it says 'Connected 0105000417' next to a 'Search' button. Below this are input fields for 'Address' (containing '192.168.240.1') and 'Port' (containing '9006'). There are also fields for 'Username' (containing 'admin') and 'Password'. At the bottom left is a 'Remember' checkbox with a blue checkmark, and at the bottom right is a 'Login' button.

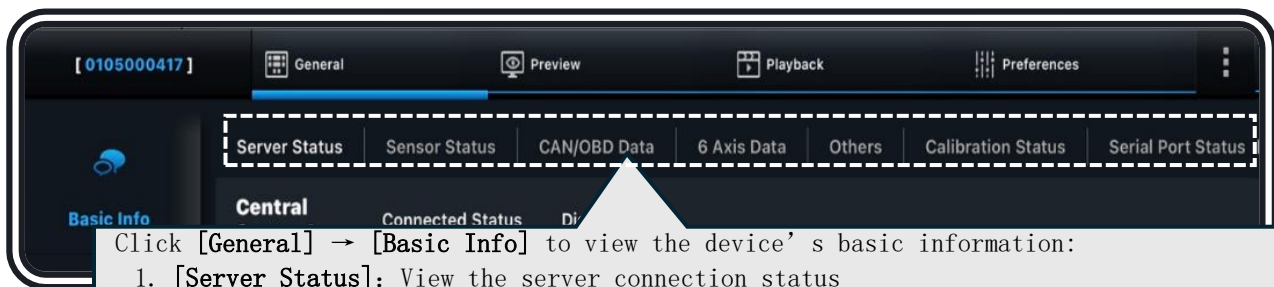
1. Click **[Search]** to enter the Wi-Fi settings. Select the corresponding device hotspot and connect. The initial hotspot name will be the device's **Serial Number**, which can be found on the label on the device
2. Enter the **username** and **password**. The default credentials are: **admin/admin**
3. Click **[Log in]** to access the operation interface



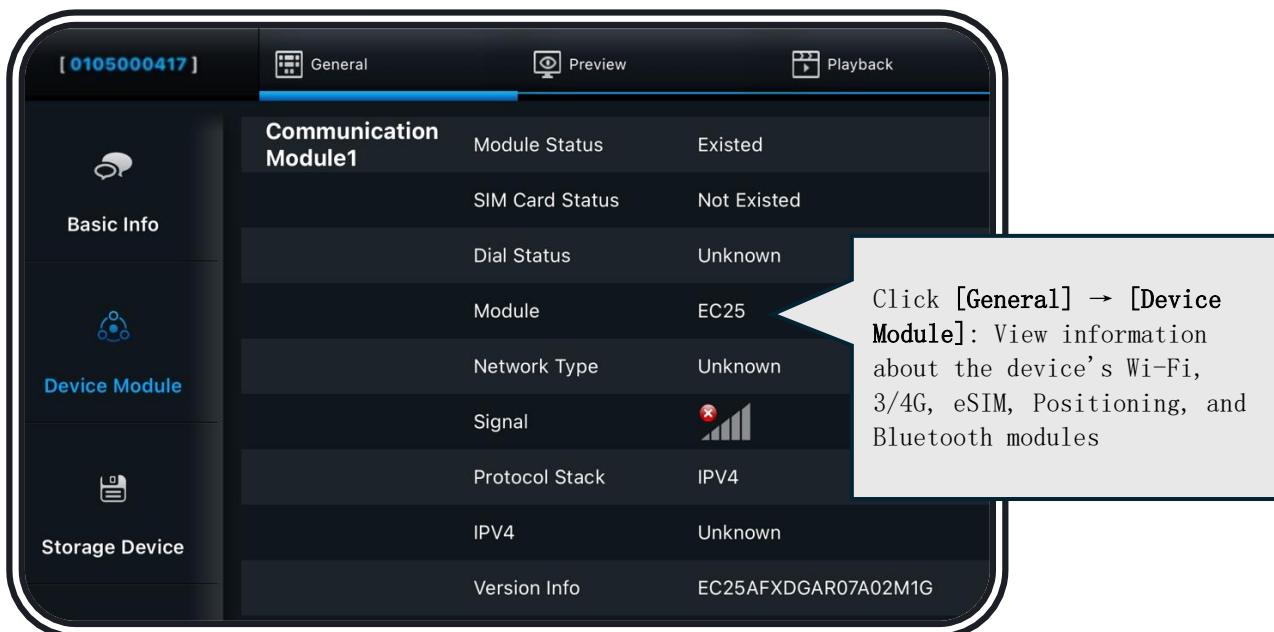
The image shows a mobile app preferences screen with a dark background. At the top, it says 'Preferences' next to a menu icon. Below this are several options: 'About' (with an information icon), 'Acceptance' (with a question mark icon), 'Share Log' (with an information icon), 'AES Key' (with an information icon), and 'Logout' (with a circular arrow icon).

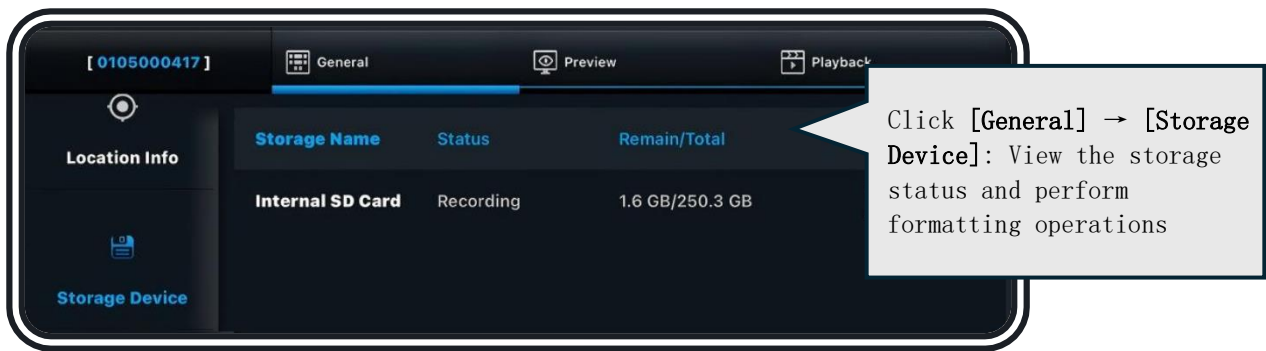
1. Click the top-right corner to view information such as the APP version and other details
2. **[Acceptance]**: Acceptance Mode. This mode is used for testing or accepting the device in a static environment. It triggers AI alerts based on a preset vehicle speed

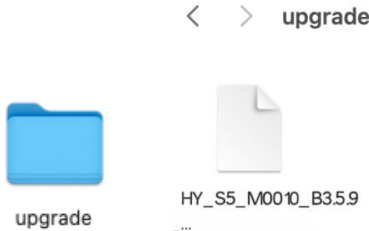
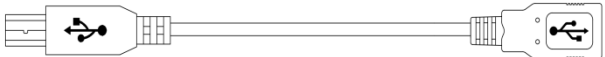
General Information Viewing



1. [Server Status]: View the server connection status
2. [Sensor Status]: View the high/low voltage status and usage of the I/O
3. [OBD Data]: View the vehicle data read by the device from the OBD port (Not supported)
4. [6 Axis Data]: View the G-Sensor's six-axis data
5. [Others]: View the ACC status, pulse status, device status, and iButton status
6. [Calibration Status]: View the AI algorithm calibration status
7. [Serial Port Status]: View the status of the connected peripherals



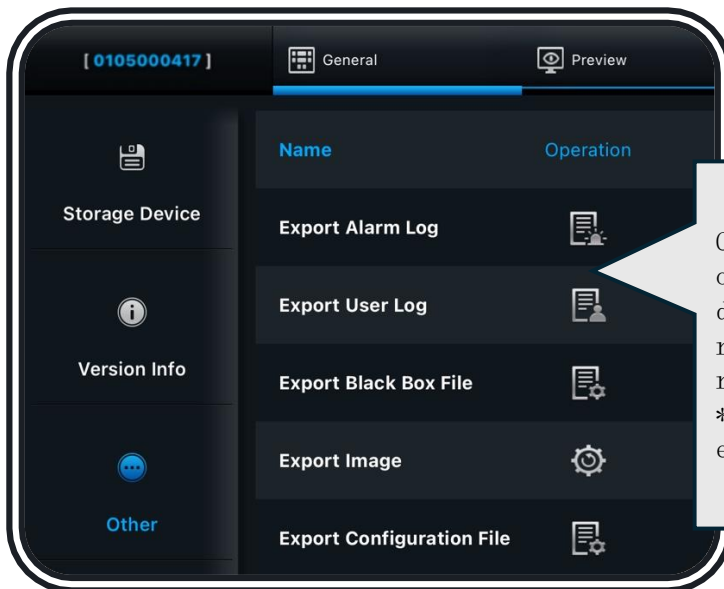


Upgrade Steps	Image Explanation
1. Prepare a USB flash drive and create a folder named upgrade in the root directory. Then place the upgrade package into the folder	
2. Connect the USB flash drive to the device via the maintenance cable	
3. Click Upgrade	



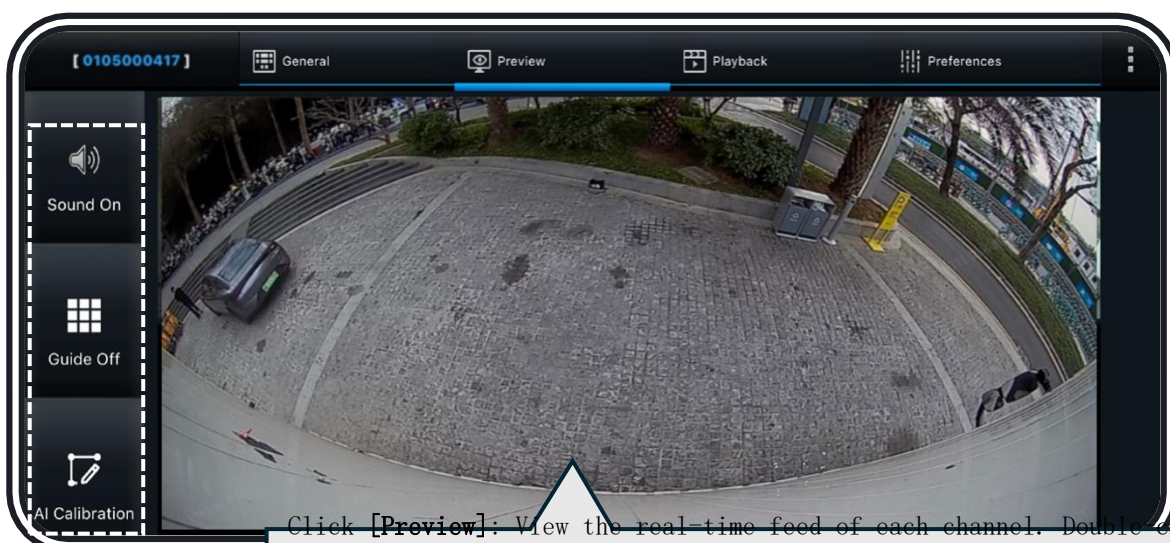
Note

The above steps outline the local upgrade process via Veyes. The device also supports online upgrades through the FT platform. For details, please refer to the platform documentation or consult relevant personnel.



Click [General] → [Other]: Supports operations such as importing/exporting data and configuration parameters, restoring factory settings, and restarting the device
*Import/Export operations require an external USB drive

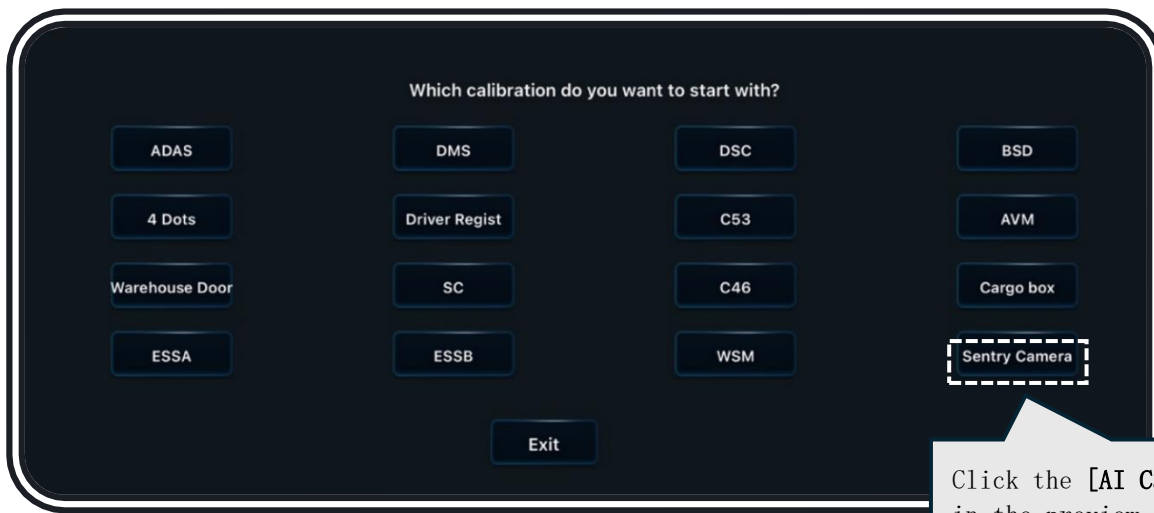
Video Preview



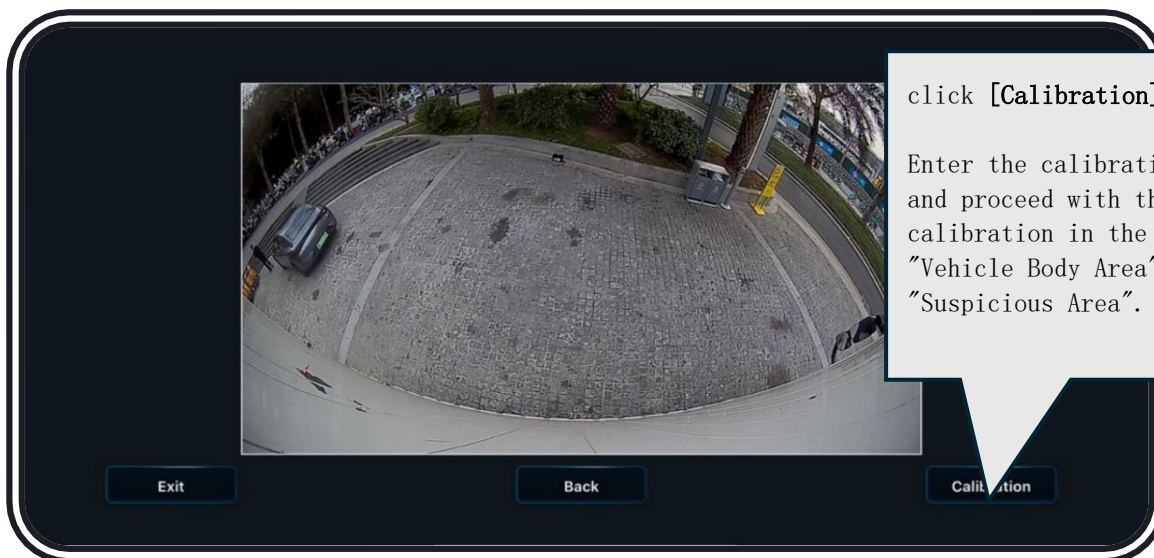
Click [Preview]: View the real-time feed of each channel. Double-click to enlarge the preview. If no camera is connected or the camera channel is damaged, "Video Loss" and "No Device" will be displayed. It supports the operation of turning grid on/off, and AI calibration (Sentinel has no external microphone).

AI Calibration

Sentry Calibration



Click the [AI Calibration] in the preview interface → [Sentry Camera], to enter the Sentry calibration interface



click [Calibration]

Enter the calibration interface and proceed with the calibration in the order of "Vehicle Body Area" to "Suspicious Area".



① Click on each of the four points in sequence to determine the calibration range of the "body area" (Red).

Back

Redraw

Withdraw

Save



② Click on each of the four points in sequence to determine the calibration range of the "suspicious area" (yellow).

then click [Save]

Back

Redraw

Withdraw

Save



Warning

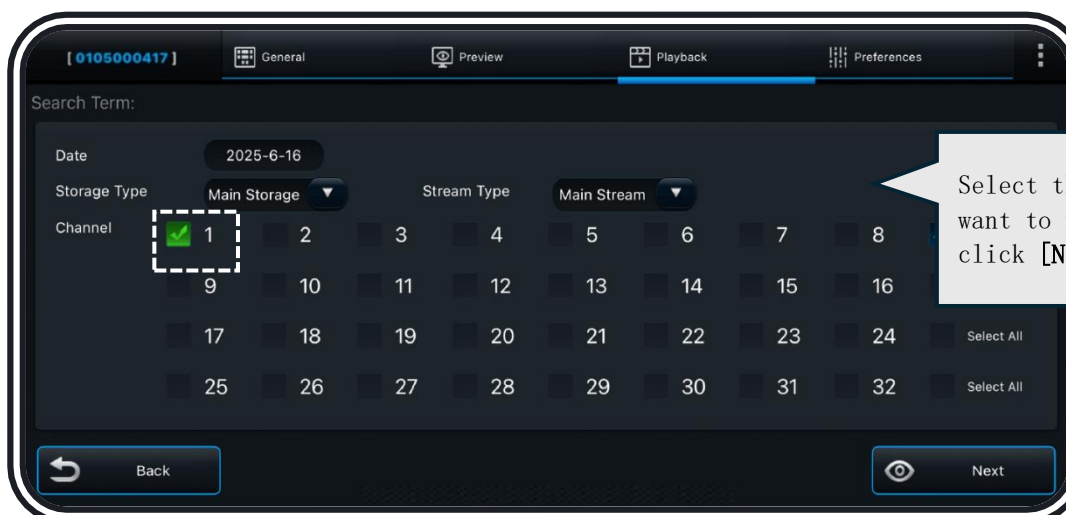
- **Sentry camera calibration must be performed strictly according to the requirements:** Perform point marking and calibration on the vehicle body area first, followed by point marking and calibration on the suspicious area. Within each calibration range, the selected points will form a line segment, with both ends of the segment perpendicular to the vehicle body, thereby defining a range interval.
- **Failure to follow the required procedures** will prevent the sentinel system from accurately obtaining the image information, which may affect its judgment ability, thereby possibly reducing the accuracy of the alarm or causing the system to malfunction.
- The company **does not assume responsibility** for any functional issues caused by improper installation or calibration

At this point, the Sentry calibration is complete

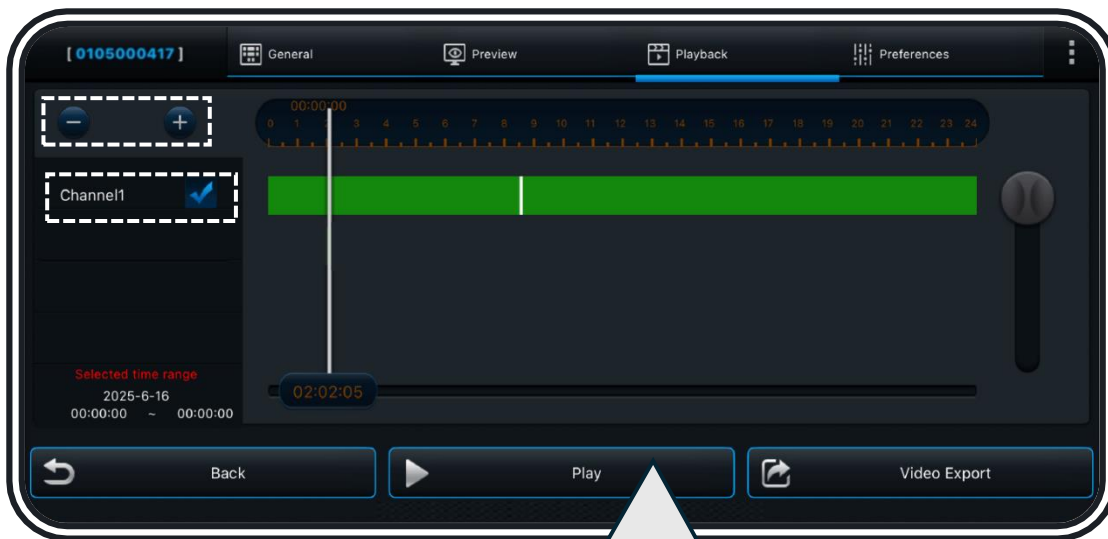
Video Playback



1. Click [Playback], and you can select the **year and date** on the left side of the screen. In the calendar, the color bar under each date indicates that there is video recorded on that day, with different colors representing different types of videos
2. On the right side of the screen, you can select the **Main/Sub storage** (The S5 only supports one Micro SD cards). In the storage, you can choose **Main streams**:
 - **Main Stream**: HD quality, primarily used for video recording storage, providing video evidence



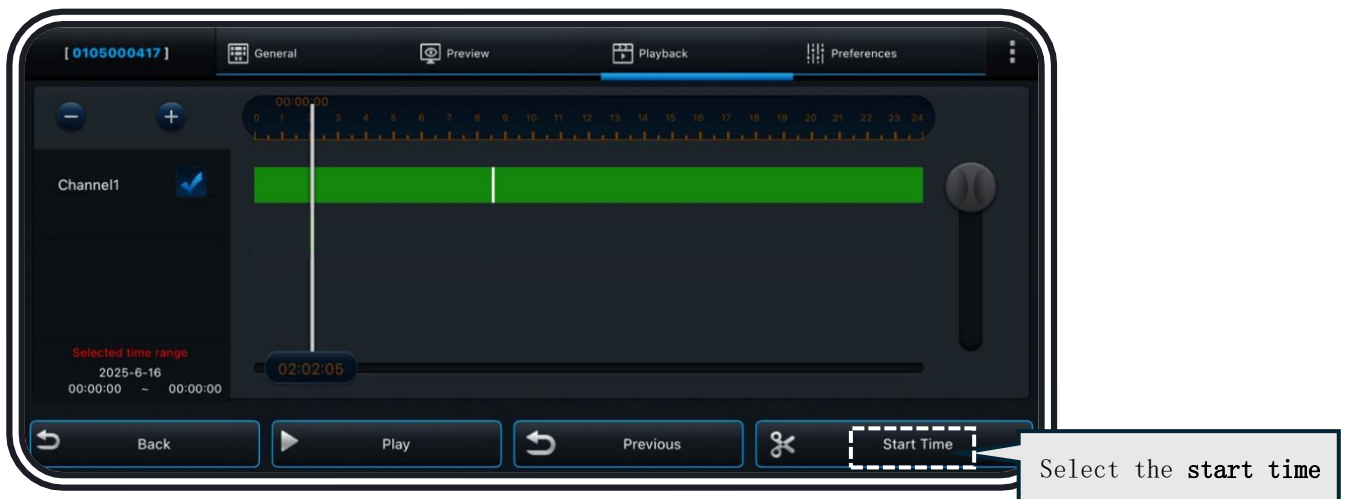
Select the channel you want to playback, then click [Next]

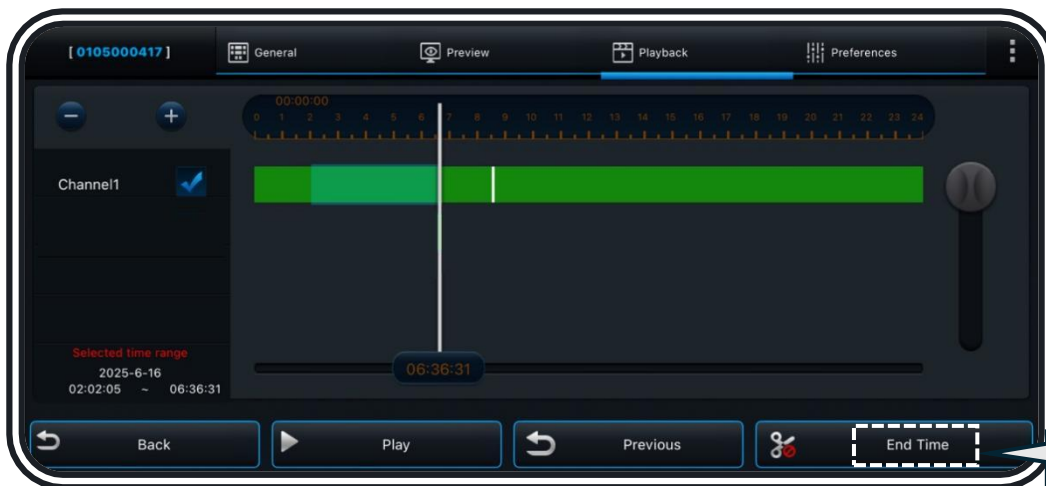


1. The top section shows the timeline. You can zoom in/out the timeline by clicking the button in the top-left corner
2. Check the box for the channel you want to playback
3. The color bar on each channel represents the type of video recorded during a specific period
4. Drag the timeline to start the playback from a specific time point
5. Click [Play] to start the playback

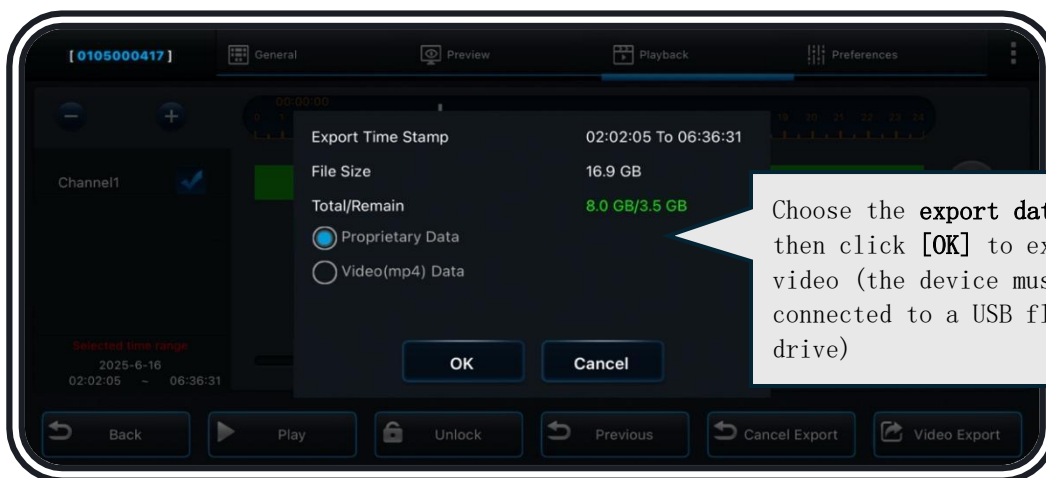
Video Export

Refer to the last page of the previous section's diagram, then click [Video Export]:





Select the **end time**



Choose the **export data format**, then click [OK] to export the video (the device must be connected to a USB flash drive)



Exporting in **MP4 format** allows playback on regular media players. Exporting in **H264/H265 format** requires a dedicated player (CEIBA2/FT client). The H264/H265 format contains more raw data, which is helpful for troubleshooting. If you require after-sales support, please choose to export in H264/H265 format

Basic Configurations



In all configuration parameter interfaces, after modifying the parameters, click the [Save] button at the bottom of the screen to save the changes. Click [Default] to restore all the default parameters on that interface

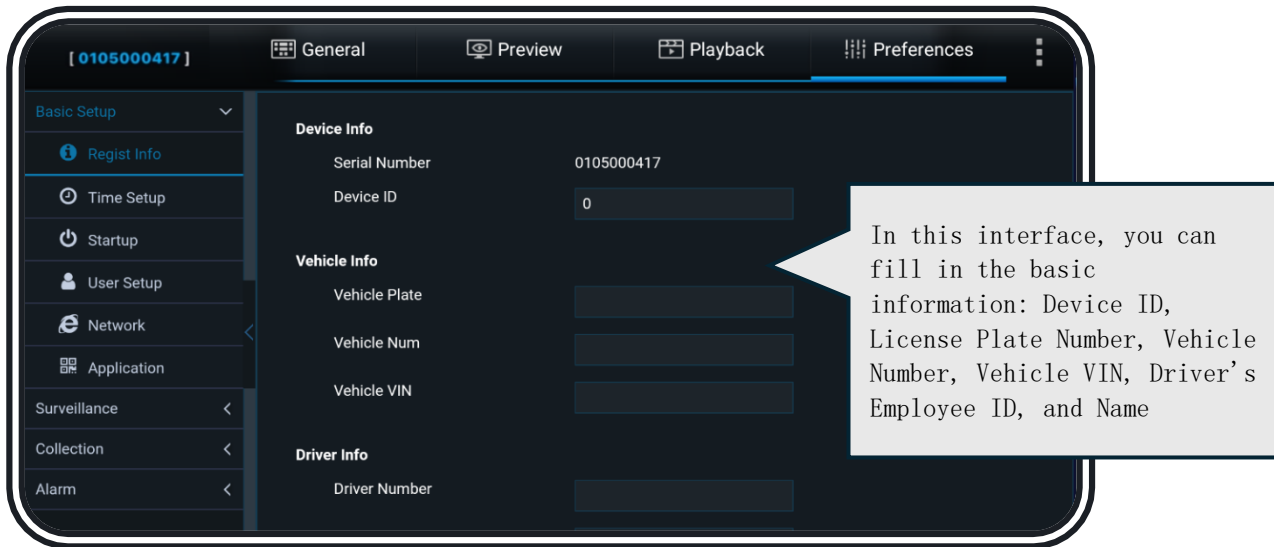


Warning

Due to the wide range of features of this product, this user manual only covers the most used settings. If you have any other questions, please feel free to contact us

Registration Information

Click [Preferences] - [Basic Setup] - [Regist Info]:

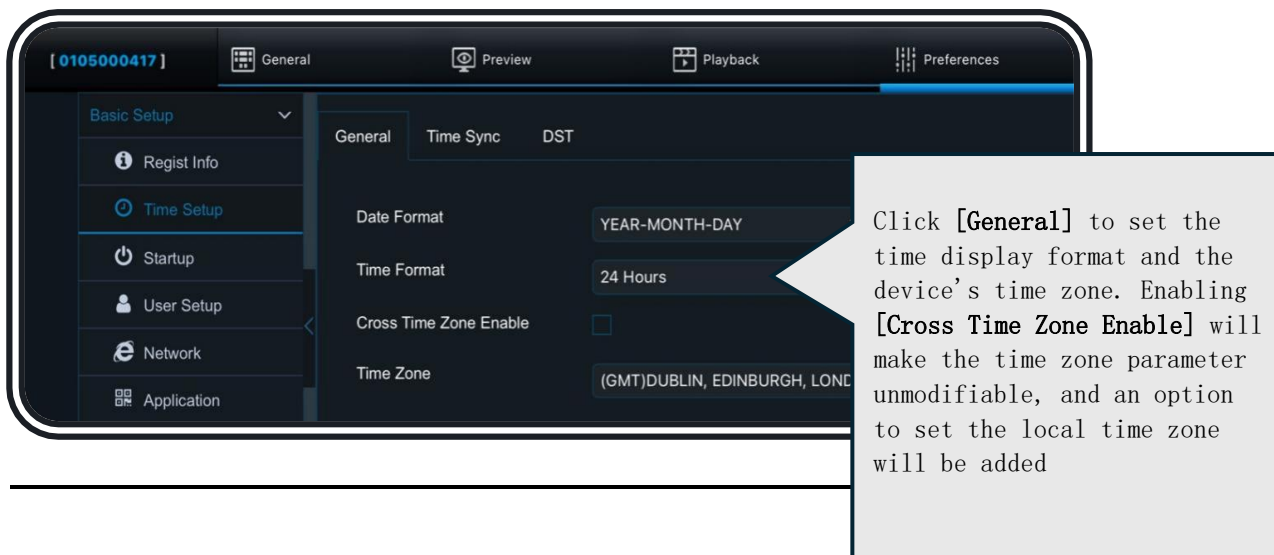


Note

Once you enter the license plate number, the Wi-Fi hotspot name will be renamed to the license plate number. You will then need to reconnect to the Wi-Fi and log in to Veyes again

Time Setup

Click [Preferences] - [Basic Setup] - [Time Setup]:





Note

Cross Time Zone Enable: When the vehicle and platform are in different time zones, enable this option to maintain proper communication between the device and the platform. Once enabled, the [Time Zone] setting becomes unmodifiable, and both the platform and the device will use the UTC (Zero) time zone for data exchange. A [Local TimeZone] setting is added to be used for overlaying time zones on the video recordings

General Time Sync DST

Manually

Date/Time 2025-06-12 14:39:33

Change Time

Auto

Satellite ☒

NTP ☐

Center Server ☐

Click [Time Sync] to manually or automatically set the date and time. The automatic setting option allows you to choose the time synchronization method

General Time Sync DST

Enable ☐

Offset One Hour

Mode Week

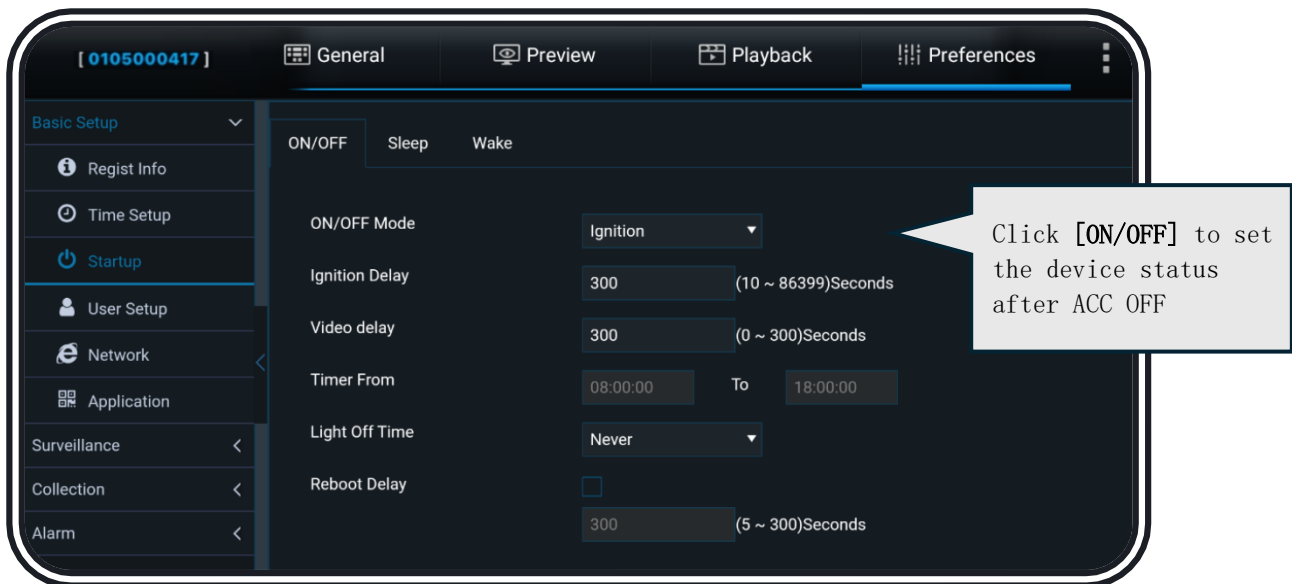
Start MAR. 2ND Sunday 2 : 00

End NOV. 1ST Sunday 2 : 00

Click [DST] to set Daylight Saving Time

Startup Setup

Click [Preferences] - [Basic Setup] - [Startup]:



- **[ON/OFF Mode]**: Select the [Ignition] for power on/off (that is, start the device by turning on the car key).
- **[Ignition Delay]**: Set the time for delayed shutdown after the car key is turned off. It can be set from 0 to 86399 seconds, with the default being 300 seconds.
- **[Video Delay]**: Set the time for delayed video recording after ignition shutdown. The video recording delay time $\leq$ the ignition shutdown delay time.
- **[Timer From]**: Select the period for timed power-on.
- **[Light Off Time]**: When an external display screen is connected, you can configure the time for the screen backlight to turn off.
- **[Robot Delay]**: When enabled, the device will automatically restart once after the set time, and then start the shutdown countdown again.



- The function will only take effect when AOV is disabled.

ON/OFF

Sleep

Wake

Low power protect

Battery low voltage protect

9.5

(8 ~ 11.5)V

Voltage Startup

12.5

(12 ~ 14)V

Low Volt Upload

Active Mode

GPS Interval

60

(5 ~ 1440)Minute

Click **[Sleep]** to select the device's sleep mode. You can modify the sleep time, low voltage protection parameters, and the GPS reporting interval during sleep



Note

- **[Battery low voltage protect]**: When the battery voltage falls below the set value, the device will enter low power standby mode when ACC ON and zero power standby mode when ACC OFF
- **[Voltage Startup]**: In low power standby mode, when the battery voltage exceeds the set value, the device will return to normal startup mode
- **[Low Volt Upload]**: When enabled, the device will report to the platform when the low voltage protection is triggered

ON/OFF

Sleep

Wake

AOV

1

(1-20) S

IO Wake

G-sensor Wake

Interrupt Wake-up Threshold

20

(1-100)*30mg

X Threshold

5.5

(0-9.9)g

Y Threshold

5.5

(0-9.9)g

Z Threshold

5.5

(0-9.9)g

Remote Wake

Telephone Wake

Sms Wake

Wake Telephone 1

Wake Telephone 2

Wake Telephone 3

Wake Telephone 4

Wake Telephone 5

Click **[Wake]** to select the device's wake-up method:

- **AOV**:After activation, the device will enter the AOV mode. It will periodically wake up at the time intervals set here, conduct environmental detection and record videos frame by frame.
- **IO Wake**: The device will be awakened after an IO alarm is triggered
- **G-Sensor Wake**: The device will be awakened when its **motion** exceeds the threshold
- **Remote Wake**: The device will be remotely awakened by issuing a command from the platform
- **Call Wake**: The device will be awakened by a phone call, requiring a pre-configured phone number that supports wake-up
- **SMS Wake**: The device will be awakened by sending a text message to the device, with the message content as "WAKEUP". The phone number that supports wake-up must be pre-configured

*The Call Wake and SMS Wake functions require the SIM card in the device to support SMS and voice call services

User Setup

Click [Preferences] - [Basic Setup] - [User Setup]:

The screenshot shows the 'Basic Setup' menu on the left with options: Basic Setup, Regist Info, Time Setup, Startup, User Setup (highlighted), Network, and Application. The main area displays 'Language' set to 'English' and 'User Management' with an 'Add' button. A table lists users:

User Name	User Group	Setup
admin	Admin	[Menu Icon]
user	Normal User	[X] [Menu Icon]

Below the table is a checkbox for 'Check Password' and a help icon (?).

The 'Edit' form shows fields for 'User Name' (user), 'User Group' (Normal User), 'New Password', and 'Confirm New Password' (both with eye icons for visibility toggle).

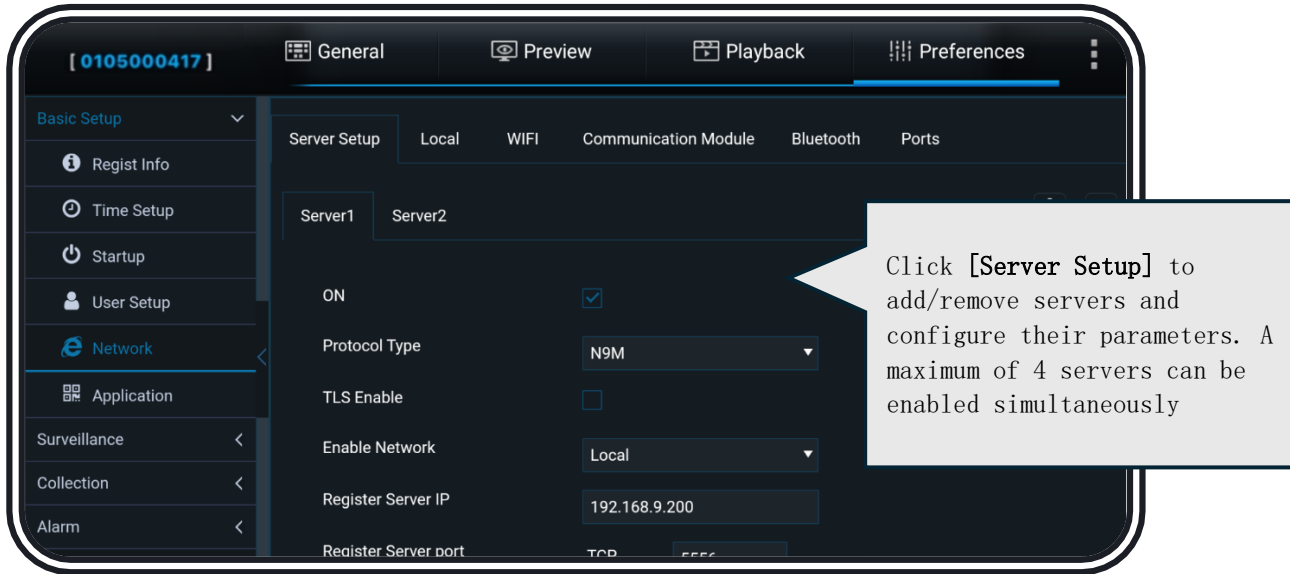


Warning

- **Admin:** There is only one admin account, which has the permission to add/delete normal users and set parameters. A maximum of two normal users can be added
- **Normal User:** A default normal user account is created, which only has permission to view settings

Network Setup

Click [Preferences] - [Basic Setup] - [Network]:



Note

- **[Enable Network]:** You can choose between wired network, Wi-Fi, communication module, or adaptive. Adaptive means the system will automatically select the available network for platform connection, with priority given to Wi-Fi > Wired Network > Communication Module
- During normal device operation, data between the device and the platform can be transmitted via TLS encryption to ensure the security of the interaction. (TLS encryption is unavailable in sleep mode.)
- The registration server and media server addresses and ports must be the same
- SMS commands can be used to modify the server parameters. For specific usage, please consult the relevant personnel

Server Setup
Local
WIFI
Communication Module
Bluetooth
Ports

Local

☒ Enable IPV4

☒ DHCP Mode
☐ Static IP

IP Address
000:000:000:000

Subnet Mask
000:000:000:000

Gateway
000:000:000:000

☒ Auto Get DNS
☐ Use Following DNS

Preferred DNS Server
000:000:000:000

Alternate DNS Server
000:000:000:000

☐ Enable IPV6

MAC

MAC Address
00:18:F5:7D:15:D4

Click **[Local]** to configure both IPv4 and IPv6 network protocols. Users can select automatic IP (DHCP mode) and DNS retrieval or manually set the IP address, gateway, and DNS. The MAC address info is also displayed here

Server Setup
Local
WIFI
Communication Module
Bluetooth
Ports

Lock
☐

Enable
AP

WIFI Mode
2.4G

WIFI Setup

ESSID

Encryption
None

Password

Hotspot
☐

Click **[WIFI]** to select the **Wi-Fi mode** and configure the related settings



Note

- **[Lock]:** When enabled, the Wi-Fi parameters cannot be imported or modified, and will not be affected by factory reset
- **[Enable]:**

Disable	Wi-Fi is disabled. The device defaults to AP mode within 3 minutes (configurable) after power on. If no Veyes connection is made within 3 minutes, the device will exit AP mode, and the module will enter sleep mode
AP	[WIFI Mode]: Choose between Auto, 2.4G, or 5G; [ESSID]: The name of the device's hotspot (defaults to the serial number) [Hotspot]: After enabling the hotspot, mobile devices can connect to the device's hotspot for internet access. You can configure the encryption method [Whitelist]: Only mobile devices with IP addresses in the list are allowed to connect. You can add up to 5 IP addresses
Client	[ESSID]: The ID and password of an available external Wi-Fi network. The device will automatically search for nearby valid Wi-Fi networks and report to the platform through that network. You can configure the encryption method

Server Setup Local WIFI **Communication Module** Bluetooth Ports

Lock ☐

Server Type No Service

Network Type Mix

Dialing Parameter

APN

User Name

Password

Number

Certification None

Carrier Auto

Protocol Type IPV4

Active Mode Always

Number1

Number2

Number3

MTU value of SIM card 1500 (100~1500)

Click [Communication Module] to configure the communication module settings:

- [Lock]: Same as above, see [WIFI] - [Lock]
- [Dialing Parameter]: Enter the parameters provided by the SIM card manufacturer. By default, this field is empty, and if left empty, the device will use the default dialing parameters
- [Active Mode]: Select [Always] for constant connection mode; select activation via phone call/SMS, with a maximum of 3 available phone numbers; also select [Sensor] switch activation, where the network module will only be activated to dial after triggering the IO sensor
- [MTU value of SIM card]: Default is 1500; the data is configurable

Bluetooth ☐

Interval Time 60 (3 ~ 3600)Seconds

No.	Enable	MAC Address	Use	Status	Setup
1	☐		None		Q ≡
2	☐		None		Q ≡
3	☐		None		Q ≡
4	☐		None		Q ≡
5	☐		None		Q ≡

Click [Bluetooth] to search for and connect to Bluetooth sensors. Bluetooth 2.1 and Bluetooth 4.2 are supported. Currently, this function is under development

Server Setup Local WIFI Communication Module **Bluetooth** Ports

WEB Port 80

RTSP Port 554

Click [Ports]: This interface can change the port number.



Note

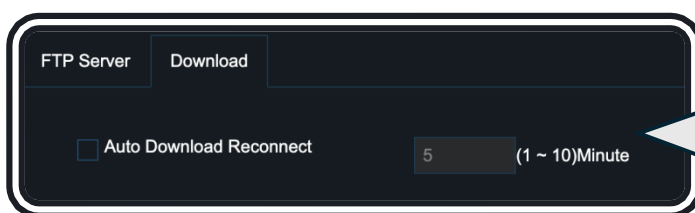
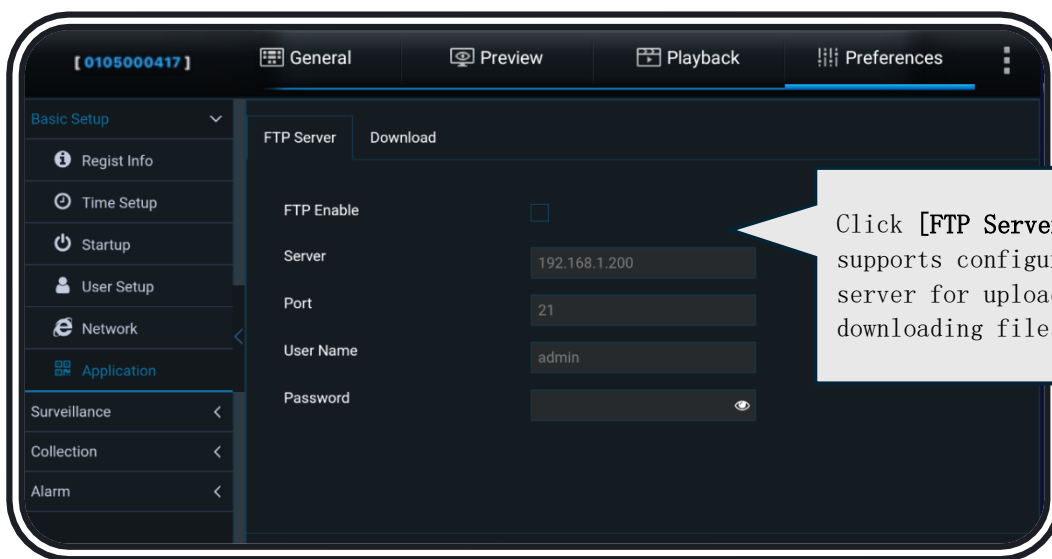
WEB Port: The default is 80, which is used for access via IE.

RTSP Port: The default is 554, supporting real-time preview and playback through RTSP with a fixed IP.

- RTSP Streaming Format: rtsp://user:pwd@IP:554/mainstreamX (X is the channel number, starting from 0, such as mainstream0)
- Example: rtsp://admin:admin@10.20.112.17:554/mainstream0

Application Setup

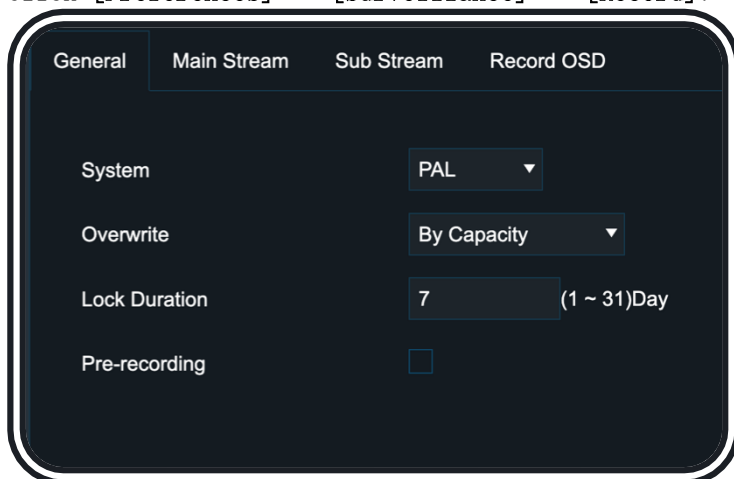
Click [Preferences] - [Basic Setup] - [Application]:



Video Surveillance

Record

Click [Preferences] - [Surveillance] - [Record]:



The screenshot shows the 'Record' OSD menu with four tabs: 'General', 'Main Stream', 'Sub Stream', and 'Record OSD'. The 'General' tab is active. It contains the following settings:

- System:** A dropdown menu currently set to 'PAL'.
- Overwrite:** A dropdown menu currently set to 'By Capacity'.
- Lock Duration:** A text input field containing the number '7', followed by the text '(1 ~ 31)Day'.
- Pre-recording:** An unchecked checkbox.

Click [General], which supports configuring system standards, coverage strategy, pre-recording logic, and recording mode



Warning

[System]: The system format includes PAL and NTSC. The system format must match the external camera format, otherwise, the device will not recognize it



Note

[Overwrite]:

- **[By Days]:** Overwrite by days, storing recordings for n days. If the SD card is full before n days, overwriting will occur in advance
- **[By Capacity]:** Overwrite by capacity, automatically overwriting old recordings when the remaining capacity is less than 1%
- **[Never]:** No overwriting, recording will stop when the storage is full
- **[By Minutes]:** The logic is the same as [By Days]

[Pre-recording]: When in alarm recording, it will link the recordings from a specified time before the alarm trigger (configurable) for event analysis

General Main Stream Sub Stream Record OSD

Channel	Enable	AI alert	Resolution	Frame Rate	Quality	Encode Standard
1	☒	☐	1080P	20	3	H265

Click [Main Stream], which supports configuring the following parameters for each channel in main stream recording

General Main Stream Sub Stream Record OSD

Channel	Enable	Resolution	Frame Rate	Quality	Encode Standard
1	☒	CIF	15	3	H265

Click [Sub Stream], which supports configuring the following parameters for each channel in sub stream recording



Note

- [Resolution]: Selectable video resolution
- [Frame Rate]: Selectable video frame rate
- [Quality]: Selectable video quality, 1-8
- [Encode Standard]: Selectable video compression standard, H264/H265
- [Channel Name]: Modifiable channel name
- [Record Mode]: Selectable recording mode, startup recording/timed recording/alarm recording
- [Alarm Quality]: Selectable alarm video quality, 1-8
- [Encode Mode]: Selectable video encoding mode, CBR/VBR



Warning

When the main stream is disabled, the whole video input will be shut down. At this time, even if the sub-stream is enabled, it won't record the sub-stream.

Click **[Record OSD]**, which supports overlaying the selected information onto the recording screen, and it can be displayed in the platform preview

Click **[Setup]**, which supports dragging to set the overlay position of each piece of information

Camera Setup

Click **[Preferences]** - **[Surveillance]** - **[Camera Setup]**:

You can set the rotation angle, mirroring, and (vertical) flipping for each channel's screen



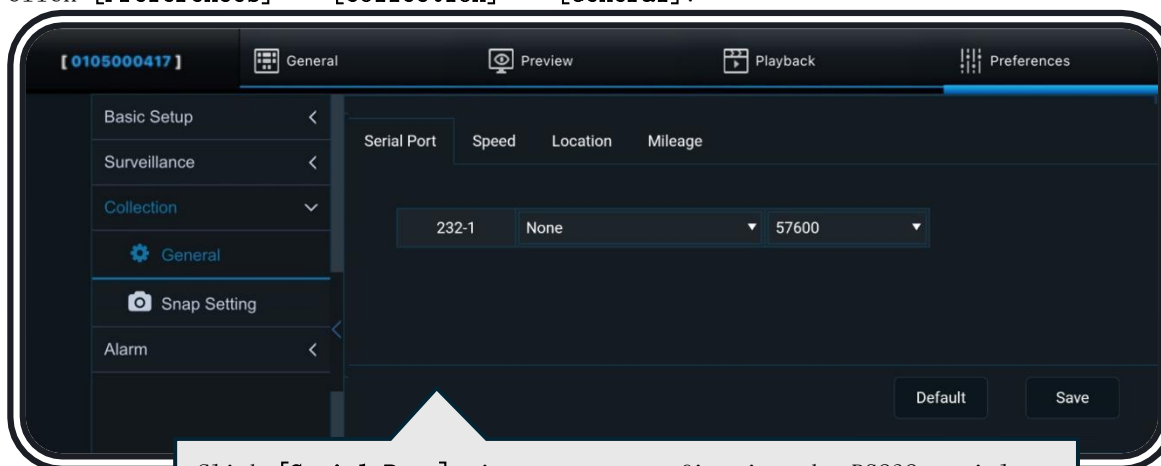
Warning

Under normal circumstances, the device's default screen angle is set to the optimal (best) angle at the factory. Please do not modify the angle or perform any mirror flipping operations. If intentional modifications lead to abnormal video display or AI detection functionality, the company is not responsible

Data Collection

General Setup

Click [Preferences] - [Collection] - [General]:



Click [Serial Port], it supports configuring the RS232 serial port's purpose and baud rate (the baud rate will be automatically set, but If there is an error, you can also adjust it manually)

Serial Port
Speed
Location
Mileage

Navigation Mode
GPS

☒ Constant Upload Mode

☒ Timing
Interval Time
10
(3 ~ 3600)Seconds

☐ Distance
Interval Distance
0.5
(0.1 ~ 10)KM

☐ Variable Upload Mode

Moving Start
Speed ≥
30
(10 ~ 100)KM/H

Duration Time
60
(5 ~ 600)Seconds

☒ Timing
Interval Time
60
(3 ~ 3600)Seconds

☐ Distance
Interval Distance
0.1
(0.1 ~ 10)KM

Moving Stop
Speed <
20
(10 ~ 100)KM/H

Duration Time
300
(5 ~ 600)Seconds

☒ Timing
Interval Time
60
(3 ~ 3600)Seconds

☒ GPS Heading Change

Deviation Angle
45
(10 ~ 90)Degrees

Duration Time
5
(1 ~ 10)Seconds

☐ GPS Command

Click [Location], which supports configuring GPS positioning mode, reporting mode, and related parameters

ACC Status	Fixed Reporting	Conditional Reporting
ACC ON	● Timed Reporting: The reporting interval can be configured ● Distance-Based Reporting: The reporting distance can be configured. Both of the above options can be selected at the same time	Configure [Moving Start] and [Moving Stop], as described below
ACC OFF	Sleep Reporting: For more details, please refer to the [Startup Setup]	



Note

- **[Moving Start]**: When the vehicle speed exceeds a certain value and stays above it for a specific period, the vehicle is considered to have started, and reporting will follow the configured time or distance logic under this option.
- **[Moving Stop]**: When the vehicle speed drops below a certain value and stays below it for a specific period, the vehicle is considered to have stopped, and reporting will follow the configured time logic under this option.
- **[GPS Heading Change]**: Reporting will occur when a significant change in vehicle heading is detected. The angle and reporting interval can be configured.
- The vehicle's ACC status will be reported along with the GPS information.

Serial Port Speed Location **Mileage**

Total 197.8600 KM

Base Value 0 (0 ~ 4000000)KM

Operation

Click **[Mileage]**, which supports calibrating and resetting the mileage value

Snap Setup

Click **[Preferences]** - **[Collection]** - **[Snap Setting]**:

[00D20172E2] General Preview Playback Preferences

Basic Setup < Surveillance < Collection > General > Snap Setting > Alarm <

Time Snap Trigger Snap Distance Snap

Time Snap ☒ Add

No.	Start Time	End Time	Setup
1	00:00:00	23:59:59	x [Menu Icon]

Snap Link Set (Time Snap 1)

Channel	Snap Enable	Resolution	Quality	Upload Type	Snap Numbers (1~3)Pcs	Interval (5~7200)Seconds
1	☐	D1	1(Best)	Setup	1	5

Copy

Channel 1

To

All

Copy

Cancel
OK

Click [Time Snap], which supports configuring a timed switch strategy. Each time period can be configured with its own snap parameters: channel, resolution, image quality, upload method, number of snapshots, and snapshot interval. A maximum of 8 time periods is supported

Time Snap

Trigger Snap

Distance Snap

Alarm Snap

Snap Link

Setup

Click [Trigger Snap], which supports configuring ordinary alarm snapshots. The configuration parameters are the same as those in [Time Snap]

Snap Link Set (Alarm Snap)

Channel	Snap Enable	Resolution	Quality	Upload Type	Snap Numbers (1~3)Pcs	Interval (5~3600)Seconds
1	☐	D1	1(Best)	Setup	1	5

Copy

Channel 1

To

All

Copy

Cancel
OK



Note

This interface is only related to general(non-AI) alarms, such as IO alarms, GPS loss alarms, etc. Snapshots will be taken after the alarm is triggered. AI alarms have a separate snapshot logic and interface, which is unrelated to this configuration interface.

Time Snap
Trigger Snap
Distance Snap

Distance Interval
1000 (0.1KM)

Snap Link

Setup

Click **[Distance Snap]**, which supports configuring distance-based snapshots. The configuration parameters are basically the same as those in **[Time Snap]**, with the only difference being that distance-based snapshots do not have a time interval setting

Snap Link Set (Distance Snap)

Channel	Snap Enable	Resolution	Quality	Upload Type	Snap Numbers (1~3)Pcs
1	☐	CIF	1(Best)	Setup	1

Copy
Channel 1
To
All
Copy

Cancel
OK



Warning

The snapshot function consumes system resources. The average snapshot frequency of all channels is limited to a maximum of 3 snapshots within 5 seconds. Streamax will not be held responsible for any system resource issues caused by frequent snapshotting that exceeds this limit.

Alarm Setup

Explanation of General Items for Alarms

Alarm Type

Alarm
Event
Alarm

All alarms can be configured with two **[Alarm Type]** options. To avoid repetitive information, the explanation is provided here:

Alarm Type	Explanation
Alarm	When the type is set to Alarm, the device will record the alarm data and report it to the platform.
Event	When the type is set to Event, the device will record the alarm data but will not report it to the platform.

Effective Time

5

(0 ~ 10)Seconds

?

Do not refresh the alarm timer

☐

?

Trigger:

Sensor1Alarm Linkage

Channel

☐ 1 ☐ 2

Post Recording

1 Min

Lock

☐

Linkage IO Output

☐ 1

Output Delay Time

0

(0 ~ 255)Seconds

Linkage Screen

None

Alarm Snap

☐

Linkage:

All alarms (including both non-AI alarms and AI alarms) can be configured with **[Trigger]** and **[Linkage]**. Some options are common configurations. To avoid repetitive information, the explanation is provided here:

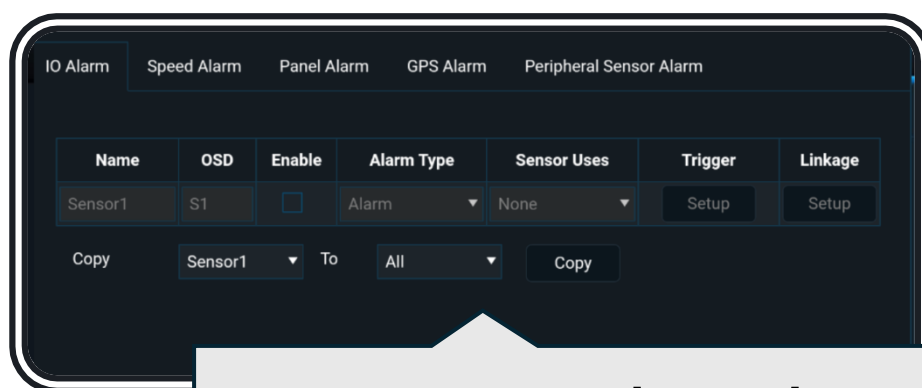
Configuration	Common Options	Explanation
Trigger	Effective Time	Select a time range. Multiple alarms of the same type triggered within this time range will be considered as a single alarm
Trigger	Do not refresh the alarm timer	By default, this option is unchecked, meaning that multiple alarms of the same type occurring within a certain time range (Effective Time) will be considered as a single alarm, and the Effective Time will reset accordingly When checked, multiple alarms of the same type occurring within the same time range will still be considered as a single alarm. However, the Effective Time will not reset. This means that if the total duration of the alarm exceeds the Effective Time, the alarm will end, and the total duration will be recorded as the Effective Time. After the Effective Time has passed, a new alarm entry will be recorded, starting from the end of the previous alarm

Linkage	Channel	After an alarm ends, one or more channels can be selected, and these channels will be marked as alarm recordings
Linkage	Post Recording	After an alarm ends, the selected channel's video will be delayed for a certain period and marked as an alarm recording
Linkage	Lock	Locked alarm recordings cannot be overwritten until the recording protection period ends or until manually unlocked. Even if the storage space is full, they will not be overwritten
Linkage	Linkage IO Output	The IO out tail line of the equipment will generate a high level when the alarm occurs.
Linkage	Output Delay Time	Set the duration of the high level of IO Output when an alarm occurs
Linkage	Alarm Snap	This option is only available for non-AI alarms. When checked, it will trigger image capture based on the previously configured [Snap] settings. For details, refer to the [Snap] section

Basic Alarms

Click [Preferences] - [Alarm] - [Base]:

IO Alarm



Please select the appropriate [Sensor Uses] based on the specific wiring method, such as left/right turn signals, reverse signal, etc.

Sensor1Trigger

Trigger Source

Source Voltage

Trigger

High

Effective Time

5

(0 ~ 10)Seconds

Do not refresh the alarm timer

☐

Cancel

OK

Click **[Trigger]**, which supports configuring the input source of the IO signal. You can choose between Voltage or Pulse, as described in the table below. The options for Effective Time and Do Not Refresh Alarm Timer are explained in the general configuration section

High Voltage	Normally low level, triggered by high level
Low Voltage	Normally high level, triggered by low level

Sensor1Alarm Linkage

Channel

☐ 1

Post Recording

1 Min

Lock

☐

Linkage IO Output

☐ 1

Output Delay Time

0

(0 ~ 255)Seconds

Alarm Snap

☐

Click **[Linkage]** to configure the linkage function for the IO signal. For other options, please refer to the General Configuration section.

Speeding Alarm



Note

This alarm is different from the **[Overspeed Alarm]** (also known as Speed Limit Sign Alarm)

IO Alarm

Speed Alarm

Panel Alarm

GPS Alarm

Peripheral Sensor Alarm

Name	Enable	Alarm Type	Trigger	Linkage
Overspeed	☐	Alarm	Setup	Setup

Overspeed Trigger

Preload Speed Difference

10

(0 ~ 200)KM/H

Speed

100

(1 ~ 200)KM/H

Duration Time

10

(0 ~ 255)Seconds

Cancel

OK

Click **[Trigger]**, when the vehicle speed exceeds the configured **[Speed]** - **[Preload Speed Difference]**, a pre-warning and voice alert will be triggered. If the vehicle speed exceeds the configured **[Speed]**, a voice alert will be triggered. If the driver does not slow down within the configured **[Duration Time]**, the alarm will be reported to the platform

Click **[Linkage]**, for option details, please refer to the general configuration

Panel Button Alarm

IO Alarm

Speed Alarm

Panel Alarm

GPS Alarm

Peripheral Sensor Alarm

Name	Enable	Alarm Type	Trigger	Linkage
Panic	☐	Alarm	Setup	Setup

Click **[Trigger]**, for option details, please refer to the general configuration description

Panic Alarm Linkage

Channel

☐ 1

Post Recording

1 Min

Lock

☐

Linkage IO Output

☐ 1

Output Delay Time

0

(0 ~ 255)Seconds

PB Alarm Duration

20

(0 ~ 255)Seconds

Alarm Snap

☐

Click **[Linkage]**, you can set the panel button alarm duration using **[PB Alarm Duration]**.

GPS Alarm

A GPS alarm will be triggered when the GPS signal is lost

IO Alarm
Speed Alarm
Panel Alarm
GPS Alarm
Peripheral Sensor Alarm

Name	Enable	Alarm Type	Trigger	Linkage
GPS Alarm	☒	Alarm	Setup	Setup

Click [Trigger] and [Linkage], for option details, please refer to the general configuration description

Peripheral Sensor Alarm

IO Alarm
Speed Alarm
Panel Alarm
GPS Alarm
Peripheral Sensor Alarm

Name	Enable	Alarm Type	Trigger	Linkage
Abnormal Door Alarm	☒	Alarm	Setup	Setup

Video Alarms

Click [Preferences] - [Alarm] - [Video]:

Video Loss Alarm

A Video Loss Alarm will be triggered when the camera experiences a malfunction or is physically disconnected

Video Loss
Cover

Name	Enable	Alarm Type	Trigger	Linkage
Video Loss	☐	Alarm	Setup	Setup

Click [Trigger], select the channels for which the Video Loss Alarm should be enabled. For other options, please refer to the general configuration description. Click [Linkage], for option details, please refer to the general configuration description

Camera Cover Alarm

Video Loss

Cover

Name	Enable	Alarm Type	Trigger	Linkage
Cover	☐	Alarm	Setup	Setup

Cover Trigger

Channel

☐ 1

Sensitivity

Low

Duration Time

5

(0 ~ 255)Seconds

Effective Time

10

(0 ~ 10)Seconds

Do not refresh the alarm timer

☐

Speed Range

≥ 0

KM/H

Click [Trigger], select the channels for which the Camera Cover Alarm should be enabled. It supports configuring the sensitivity of the alarm trigger; it also supports setting the alarm trigger based on [Duration Time] and [Speed Range], meaning that when the vehicle speed exceeds a certain value and the device detects camera obstruction for a specified duration, the alarm will be triggered. For other options, please refer to the general configuration description

Advanced Alarms

Click [Preferences] - [Alarm] - [Advanced]:

Harsh Driving Alarm

Driver Behavior Alarm

Geo-Fence

Name	Enable	Alarm Type	Trigger
ACCEL2	☐	Alarm	Setup

Real-Time:

X: -0.777, Y: -0.082, Z: 0.629

☒ Auto Calibration

Installation Angle:

Roll: 0.0°, Pitch: 42.8°, Yaw: 0.0°

100HZ G-sensor value

☐

Self checking:

Normal

integrated navigation

☐

Select Vehicle Model

Adaption

ACCEL2 (Aggressive Driving Alarm) is triggered by the G-Sensor which supports automatic or manual calibration for optimal sensitivity. For improved accuracy, enable the [Integrated Navigation] button to select the vehicle type, allowing the system to assess alerts more precisely based on combined sensor data

ACCEL2 Trigger

Alarm Name	Enable	Offset	Speed
Harsh Braking	☒	0.5 (0.001 ~ 1)	20 ~ 50 (0~200)KM/H
Hard Acceleration	☒	0.5 (0.001 ~ 1)	20 ~ 50 (0~200)KM/H
Harsh Left Turn	☒	0.5 (0.001 ~ 1)	20 ~ 50 (0~200)KM/H
Harsh Right Turn	☒	0.5 (0.001 ~ 1)	20 ~ 50 (0~200)KM/H
Shock	☐	X: 1 (0.1 ~ 8) Y: 1 (0.1 ~ 8) Z: 2 (0.1 ~ 8)	
Effective Time	10 (0 ~ 10)Seconds		

Recommended Setting

Click **[Trigger]**, you can adjust the **[Offset]** value to modify the sensitivity of each alarm: the smaller the offset value, the more sensitive the alarm detection. You can also select the vehicle type to use the corresponding inertial sensor model for optimal detection performance. For other options, please refer to the general configuration description

Click **[Linkage]**, for option details, please refer to the general configuration

Geo-Fence Alarm

Driver Behavior Alarm

Geo-Fence

☐ Area I/O Alarm Switch
 ☐ Line I/O Alarm Switch

☐ Skew Alarm Switch
 ☐ Driving Alarm Switch
 ☐ Section Limit Speed TTS Switch

Click **[Geo-Fence]**, in this interface, you can select the entry/exit fence or route handling strategy. This feature requires integration with the CEIBA2 platform or FT Cloud platform

AI Alarms

Click **[Preferences]** - **[Alarm]** - **[AI App]**:

You can set the snapshot logic when an AI alarm is triggered. AI alarms have their own **snapshot logic**, which is independent of the **Snap Setting** section. For each AI alarm, click **[Alarm Capture]** → **[Setup]**:

Capture Mode

Cycle Capture

Capture PcS

1

Capture Interval

5

(5 ~ 3600)Seconds

Channel	Snap Enable	FTP	Resolution	Quality
1	☐	☐	D1	1(Best)

In this interface, you can set the snapshot mode, number of snapshots, snapshot interval, snapshot channel, and the resolution and quality of the snapshot images



Note

Capture Mode:

- **Single Capture:** Only one snapshot will be taken each time, and the total number of snapshots is determined by [Capture PcS], while the interval between each snapshot is determined by [Capture Interval]
- **Cycle Capture:** The number of snapshots taken each time is determined by [Capture PcS], and the interval between each snapshot is determined by [Capture Interval], until the alarm ends

SENTRY Alarms

Click [Preferences] - [Alarm] - [AI App] - [SENTRY]:

SENTRY

Alarm Notifications

Algorithm Calibration

Name	Enable	Alarm Type	Trigger	Linkage	Alarm Capture
Suspicious target alarm	☒	Alarm	Setup	Setup	Setup
Vehicle Touch Alarm	☒	Alarm	Setup	Setup	Setup

Suspicious Target Alarm

Suspicious target alarm Trigger

Lv11 Speed Range

0

~

50

KM/H

Sensitivity

Middle

Duration

0

(0 ~ 600)Seconds

Effective Time

0

(0 ~ 600)Seconds

?

Do not refresh the alarm timer
☐

?

Click [Trigger], option details, please refer to the general configuration description

Click [Suspicious target alarm]-[Trigger]]-[Linkage], for option details, please refer to the general configuration description

Vehicle Touch Alarm

Vehicle Touch Alarm Trigger

Lvl1 Speed Range	0	~	50	KM/H
Sensitivity	Middle ▼			
Duration	0	(0 ~ 600)Seconds		
Effective Time	0	(0 ~ 600)Seconds ?		
Do not refresh the alarm timer	☐	?		

Cancel OK

Click [Trigger], option details, please refer to the general configuration description

Click [Linkage], for option details, please refer to the general configuration description

Algorithm Calibration

SENTRY Alarm Notifications Algorithm Calibration

Channel	Use	Mode Type
1	None ▼	Normal ▼
	None	
	Sentry Side View	
	Sentry Overlook	

In this interface, you need to select the algorithm usage for each channel according to the actual situation

FCC Caution.

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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.

FCC Radiation Exposure Statement:

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