



Quadripartite Blind Area Monitoring System

User Manual

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Preface

The purpose of this section is to make sure the user can use the product correctly through this manual to avoid risky operation or property damage. Before using this product, please read the product manual carefully and keep it for future reference.

Overview

This manual is applicable to the quadripartite monitoring system. It is used to guide you in the basic installation and operation of the quadripartite monitoring system.

Symbol Conventions

For the symbol appearing in the document, the description is shown below.

Symbol	Description
 Note	Description type text, which indicates the supplement and interpretation of body text.
 Caution	Please pay attention to text type, which means to remind users of important operations or to prevent potential injury and property damage.
 Warning	Warning type text indicates potential risk. If not avoided, it may cause injury, damage to device, or service interruption.
 Danger	Hazardous text indicates a high risk. If not avoided, it may lead to serious risk of loss of human life.

Safety Instruction



Warning

- During device installation and use, the electrical safety regulations of the country and area of use should be strictly observed.
- To avoid heat build-up, please keep the device ventilation smooth.
- If the device is smoked, the device will get bad taste, or sound loudspeaker. Turn off the power supply and unplug the power cable. Please contact the distributor or service center.
- If the device is not working normally, please contact the store or nearest service center that purchased the device. Do not disassemble or edit the device in any way. (The Company shall not be liable for any problems caused by unauthorized modification or repair.)



Caution

- During installation and use, the electrical safety regulations of the country and area must be strictly observed.
- Before installing the device, please go into details of power connection mode.
- The system should be installed in a vehicle manufacturer or manufacturer. Please install the device in the vehicle as much as possible.
- Well ventilated location.
- Do not drop the object on the device or vibrate the device.
- Do not use the device in high-temperature, low-temperature, or high-humidity environments. See Device for temperature and humidity requirements.
- The device should be stored in a dry, non-corrosive gas environment, and avoid direct sunlight.
- Keep the device away from the location where magnetic field interference exists.
- Wireless network antennas and satellite positioning antennas should be installed near the roof or window and be lightning-proof.
- Do not cover or cover any object.
- The device is a sophisticated electronic device. No user can repair the component. Do not disassemble the device.
- The device may face network security problems. Please strengthen the protection of personal information and data security. When You Send
- Please contact us in time if network security risk exists in current device.
- Please keep all the original packaging materials of the device properly. If the problem persists, use the packaging materials to package the device.
- Go to agent or return to manufacturer for handling. The company does not assume responsibility for the accidental damage caused by the transportation of non-original packaging material.



Note

- The quality requirements of installation and maintenance personnel should be qualified with the certificate or experience of video surveillance system installation, maintenance, and related work (such as high-altitude operation). The following knowledge and operation skills are also required.
- Basic knowledge and installation skills of video surveillance system and component.
- Basic knowledge and operation skills of low-voltage wiring and low-voltage electronic wiring.
- It has basic network security knowledge and skills, and is able to read the content of this manual.

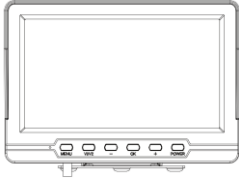
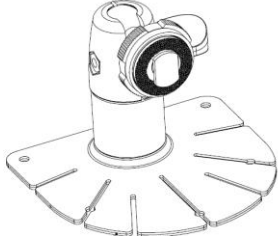
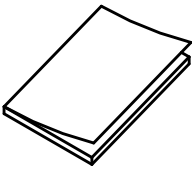
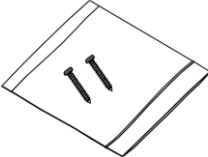
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Chapter 1 Unpack Check

When you purchase the device, please check if the product package and appearance are damaged. Please open the package and check if the product is equipped with the following accessories.

Table 1-1 Packing List

No.	Picture	Name	Quantity	Unit
1		Quadripartite Monitoring Screen	1	Dock
		Bracket	1	Dock
2		Quick Start Guide	1	Original
4		Gmouse	1	Dock
5		Screw Package	1	Package

Chapter 2 Product Introduction

2.1 Product Introduction

The four-way blind area monitoring system is a mobile surveillance product used to solve vehicle blind area problem. It is used to record real-time surveillance around the vehicle via the 4th-channel 1080P camera. The product can be used on slag vehicles, freight vehicles, engineering mechanical vehicles, and special vehicles to meet the monitoring requirements of the blind area around the vehicle.

2.2 Product Function

- Access 4 channels of 1080P camera.
- Video loop overlay is supported. No loss.
- Display multiple display modes including single channel, dual channel, four channel, 4-H.
- Support mounting methods such as glue holding and screw holding.
- Support external power supply of DC9V to 36V.
- When backing down, switch to the scene of the camera.
- The system is in low-power mode and continuously monitors and videos during parking power off.
- GPS Positioning
- Up to 512G TF card is supported.

2.3 Device Overview

2.3.1 Device Size

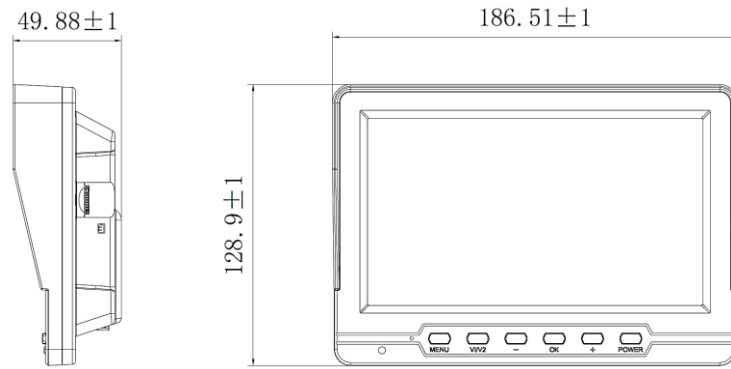


Figure 2-1 Screen Size (mm)

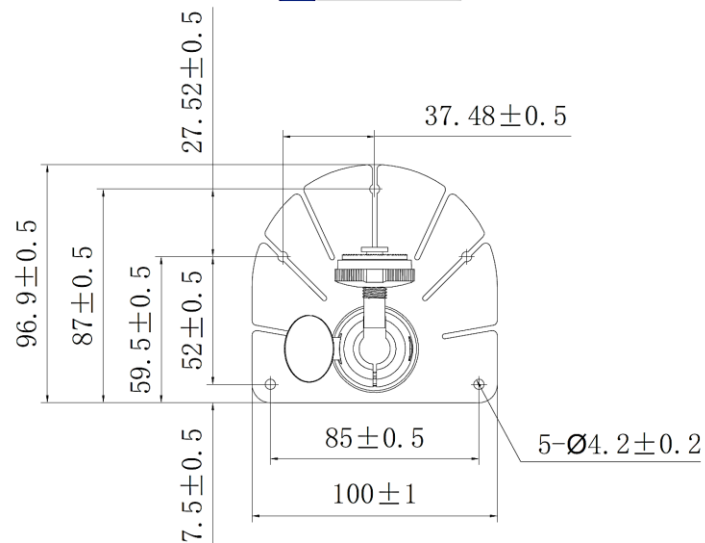


Figure 2-2 Bracket Size (mm)

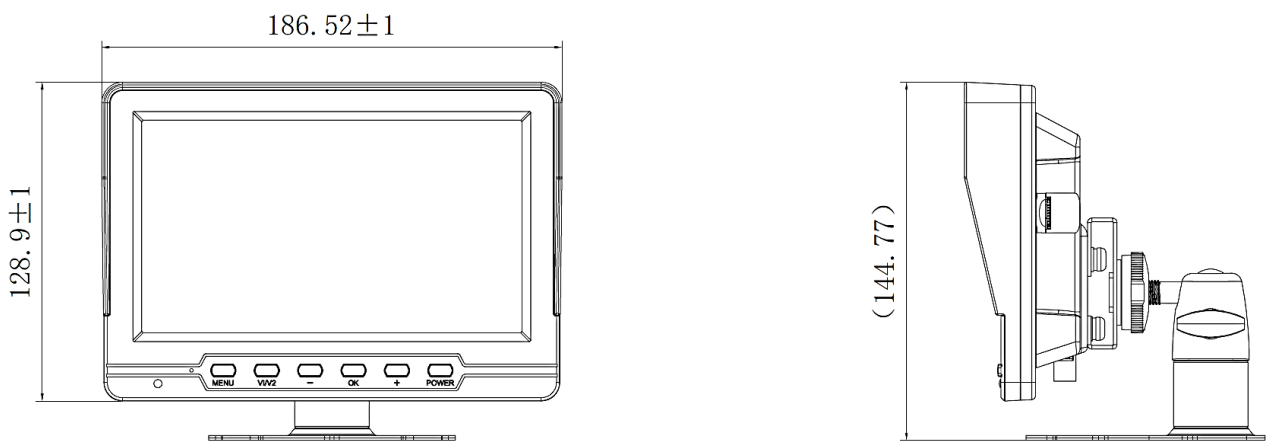


Figure 2-3 Size with 1 Brackets (mm)

2.3.2 Cable Definition

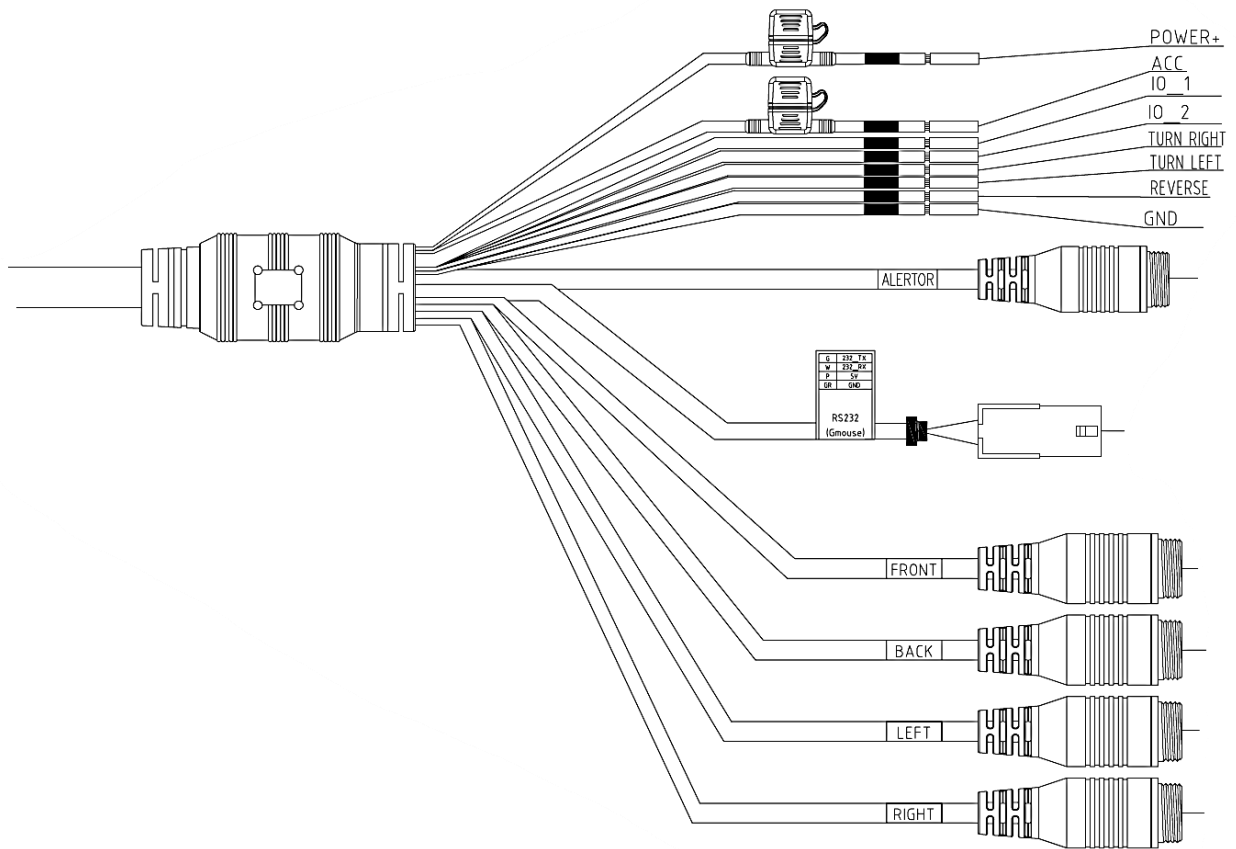
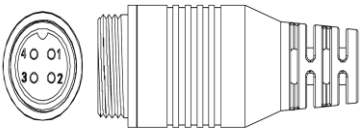
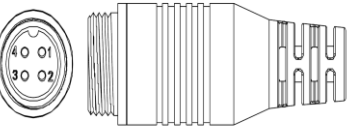
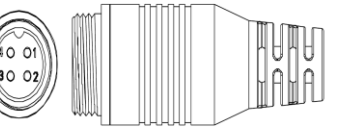
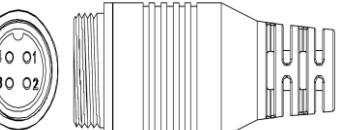
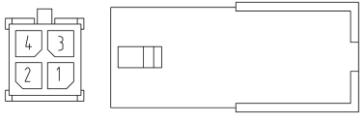
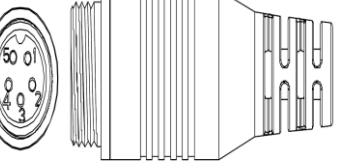
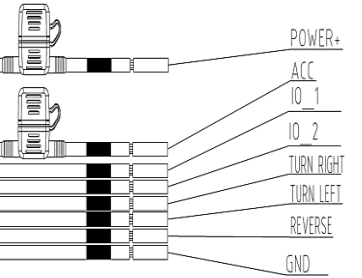


Figure 2-4 Cable Appearance

Table 2-1 Interface Description

Interface	Interface Definition	Interface Picture	Rated Load
12M4B(Right)	1. VIDEO_4 2. VIDEO_IO4 3. POWER 4. GND		12V 2W max
12M4B (Left)	1. VIDEO_3 2. VIDEO_IO3 3. POWER 4. GND		12V 1.2W max
12M4B (Back)	1. VIDEO_2 2. VIDEO_IO2 3. POWER 4. GND		12V 1.2W max
12M4B (Front)	1. VIDEO_1 2. VIDEO_IO1 3. POWER 4. GND		12V 1.2W max
43020-0401 (RS232)	1. RS232_RX 2. GND 3. RS232_TX 4.5V_DEV		5V 0.2W max
12M5B (Alertor)	1./ 2. RS485-_1 3. RS485+_1 4. GND 5. ACC		12V 3W max
Hard Wire	1. POWER+ 2. ACC 3. IO1/IO2 4. TURN RIGHT 5. TURN LEFT 6. REVERSE GND		/

Chapter 3 Basic Operation

3.1 Button and Operation Interface

If corresponding parameter settings and video playback are required, the operation button should be used to enter the corresponding interface.

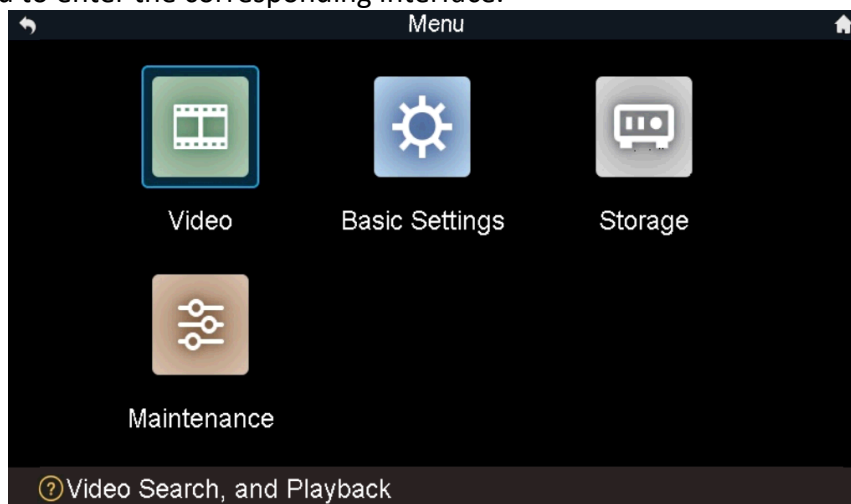


Figure 3-1 Menu

Table 3-1 Directory

First-Level Directory	Secondary Directory	Third-Level Directory
Video Search	Video List	Video Playback
Basic Settings	Recording Duration	3 min/5 min
	Brightness Adjustment	10% to 100% / AUTO
	Split Screen Settings	1/2/4/4-H
	Language Switch	Chinese/English
	Parking Surveillance	ON/OFF
	Left and Right Camera Mirror	ON/OFF
	Enter Camera Frame Rate	25fps/30fps
	Hard Wire Trigger Level	Low/High
Storage Management	No.	Display No.
	Type	TF Card/UHDD
	Status	Normal/Offline
	Total Capacity	Display Total Capacity
	Video Remaining	Display Remaining Capacity
	Format	Check if the prompt is initialized.
Maintenance	System Information	Model/Serial No./Main Control Version/DSP Version
	Reboot Device	Restart prompt?
	Default Settings	Please check if the prompt is restored to exit settings.

	Time Settings	System Time
--	---------------	-------------

3.2 Button Operation

Table 3-2 Button Function

Name	Function
MENU	Enter Main Menu
	Back to upper-level interface.
V1/V2	Live View/Record Camera Channel Switch
	PgUp/PgDn Switch
“_”	Move the cursor to the left and the cursor down (edit status).
	Switch Camera Lens in 1/2 Screen
“+”	Move the cursor to the right and the cursor up (edit status).
	Switch Camera Lens in 1/2 Screen
OK	Confirm
POWER	Display Screen

3.3 Live View Screen

You can enter the live view by default to view the camera. Screen division mode can be set in Basic Settings - Screen Division Settings.

3.4 Video Search

Tap Menu to enter the recording list. Select the recording file of the corresponding time. Click to enter the playback page. 1/8, 1/4, 1/2, 1, 2, 4, 8x speed playing is supported.

Search Results			
No.	Start Time	End Time	Size
1	2025-04-25 18:15:09	2025-04-25 18:15:39	19,610 KB
2	2025-04-25 18:11:28	2025-04-25 18:13:52	91,402 KB
3	2025-04-25 18:06:28	2025-04-25 18:11:27	187,777 KB
4	2025-04-25 18:03:53	2025-04-25 18:06:26	96,771 KB
5	2025-04-25 17:58:53	2025-04-25 18:03:52	187,512 KB
6	2025-04-25 17:53:53	2025-04-25 17:58:52	187,790 KB
7	2025-04-25 17:48:53	2025-04-25 17:53:52	188,029 KB
8	2025-04-25 17:43:53	2025-04-25 17:48:52	188,869 KB
9	2025-04-25 17:38:53	2025-04-25 17:43:52	188,908 KB

V1/V2: used with +/- for PgUp/PgDn

Figure 3-2 Search Results

3.5 Basic Configuration

Tap Menu to select basic settings, such as recording duration, brightness adjustment, split screen settings, language switch, parking monitoring, left and right camera mirroring, hard wire triggering level, and input camera frame rate.

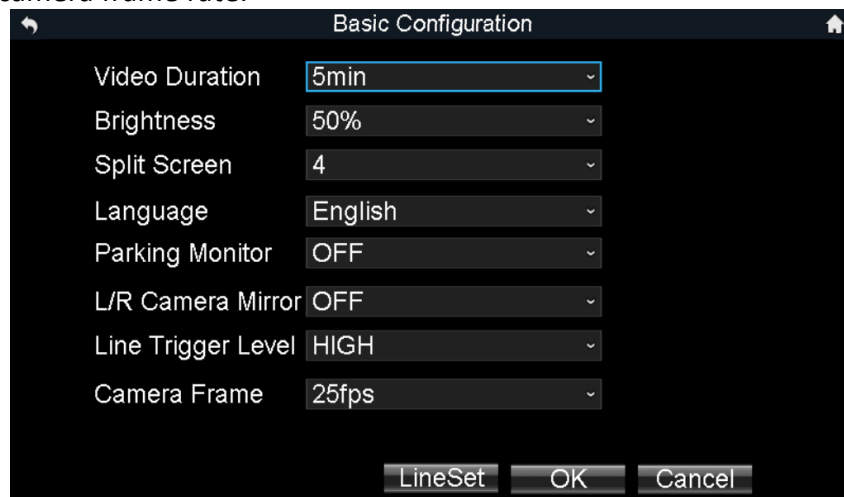


Figure 3-3 Basic Config.

3.5.1 Recording Duration

Set the duration of recording. The duration of 3 min/5 min is supported.
Default time of first activation: 5 min.

3.5.2 Brightness Adjustment

This function item is used to adjust the brightness of the screen. The brightness settings are supported in 2 specifications.

1. 10% to 100% manual brightness.
2. AUTO Self-Adaptive

3.5.3 Split Screen Settings

This function item is used for live view layout settings. Currently, there are four modes.

Table 3-3 Modes Description

Options	Effect
1	Single Channel Live View
2	Dual-Channel Live View (Front, Left, Right)
3	Four-Channel Live View
4	4-H

3.5.4 Language Switch

This function is used to switch language in the system. The function supports switching Chinese/English.

3.5.5 Parking Surveillance

In vehicle decommissioning scene, the ACC off device auto screen is detected. The frame rate is reduced to 2 MB, and the video is continuously recorded.

The device is disabled when the power supply voltage is lower than the battery power loss threshold.

3.5.6 Left and Right Camera Mirror

This function is used to enable left and right camera mirroring.

3.5.7 Hard Wire Trigger Level

The device supports configuring the upper level and lower level. The user can set the higher level and lower level to trigger according to his/her needs.

3.5.8 Enter Camera Frame Rate

Camera frame rate self-adaptive.

3.6 Storage Management

Click Menu to select storage management to format and configure storage device.

Note

USB flash drive can only be upgraded.

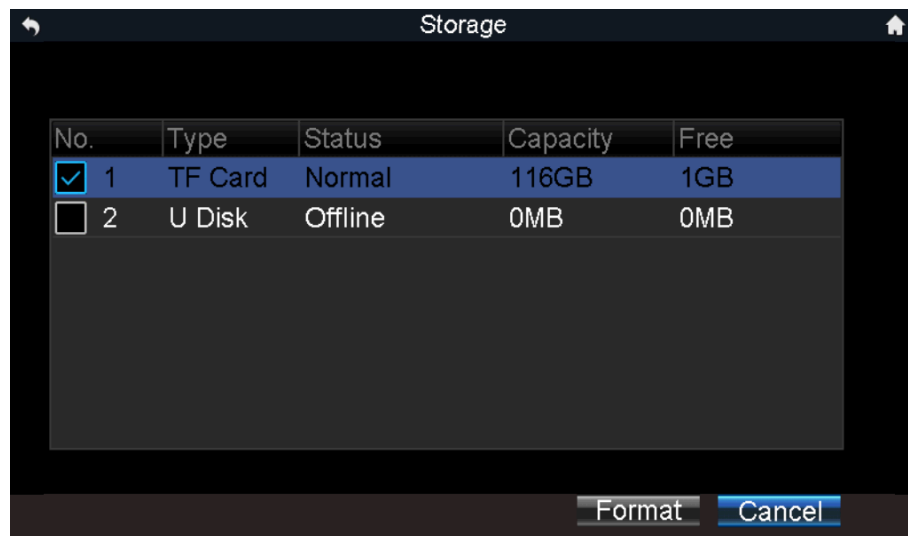


Figure 3-4 Storage

3.7 Maintenance Management

Tap Menu to select Maintenance Management to manage device information, time, system recovery, etc.

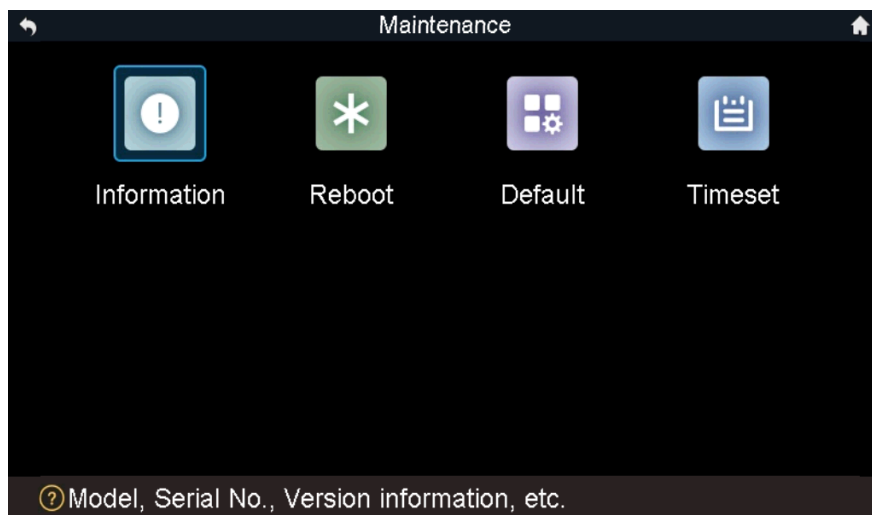


Figure 3-5 Maintenance

3.7.1 System Information

This function is used to search device model, serial No., main control version, and DSP version.

3.7.2 Reboot Device

This function can enable quick restart of the device.

3.7.3 Default Settings

This function is used to restore the factory settings of the device.

3.7.4 Time Settings

This function is used to set system time (GPS time sync).

Chapter 4 APP Operation Guidance

4.1 Download App

Scan corresponding app application according to cell phone operating system.

ADAS

Android



iOS



Figure 4-1 Download

4.2 APP Login

- Insert Wi-Fi Module.
- Open app and select direct connection device.



Figure 4-2 Connection

- Select corresponding Wi-Fi and enter password.
- APP connected.

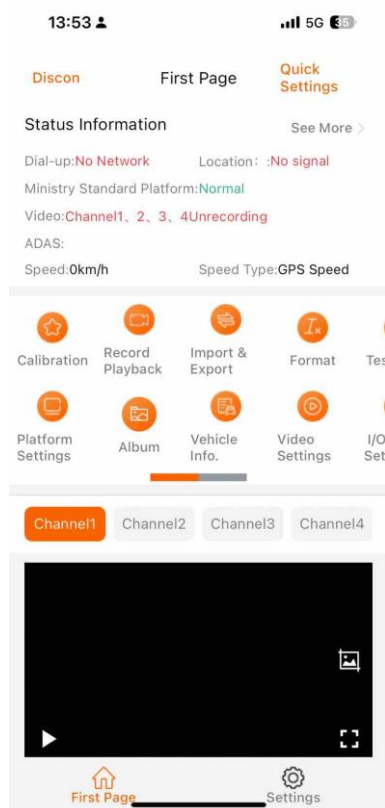


Figure 4-3 Connection

4.3 APP Basic Operation

4.3.1 Live View

After the app is connected, you can view the camera pictures of the four channels separately.

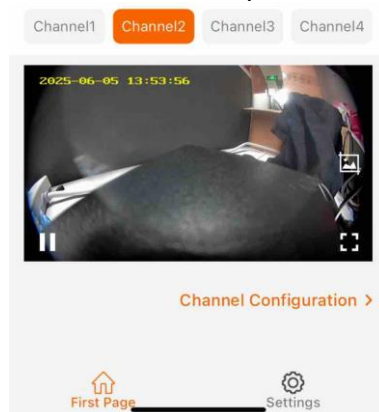


Figure 4-4 Live View

4.3.2 Video Search

Click **Video Playback** to search the channels of the host.

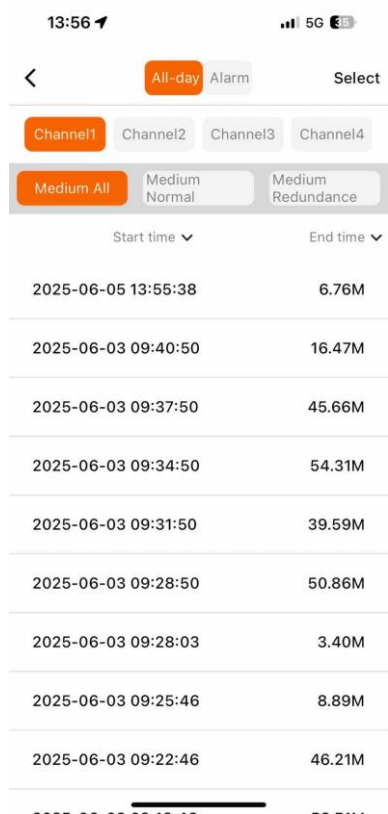


Figure 4-5 Video Search

4.3.3 I/O Settings

The app supports configuration of high and low levels. Users can set the settings to trigger the levels according to their needs.

 Note

The IP address should be configured with IO triggering level. The IO1/IO2 status should be changed to the same triggering status. Otherwise, the settings will not take effect.

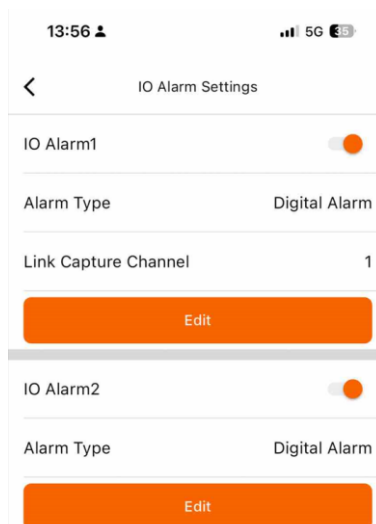


Figure 4-6 I/O Settings

4.3.4 Channel Configuration

Click **Channel Configuration** to search corresponding channel parameter configuration.

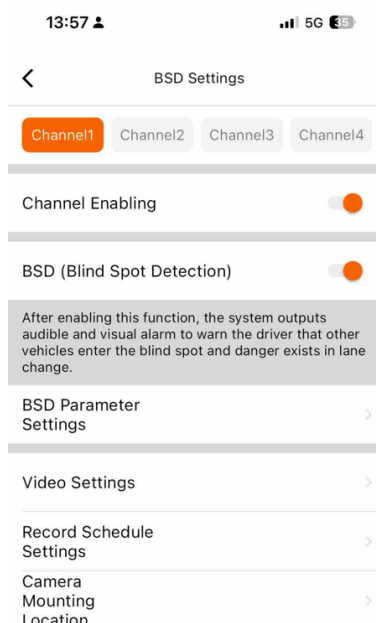


Figure 4-7 Channel Config.

Enable Channel

Channel enabling function is enabled by default. Closing failed.

BSD (Blind Spot Detection)

You can configure whether the BSD camera is enabled under the corresponding channel. If it is

disabled, you cannot set the BSD parameters.

Video Parameter Settings

This function supports video recording or live view.

Recording Schedule Settings

This function can configure camera recording time period.

Camera Mounting Location

The function can configure the camera installation location.

4.3.5 BSD Parameter Settings

Enter Channel Configuration to select corresponding channel. Enter BSD Parameter Settings to search BSD camera settings in the channel.

Enter Advanced Settings to configure the following settings.

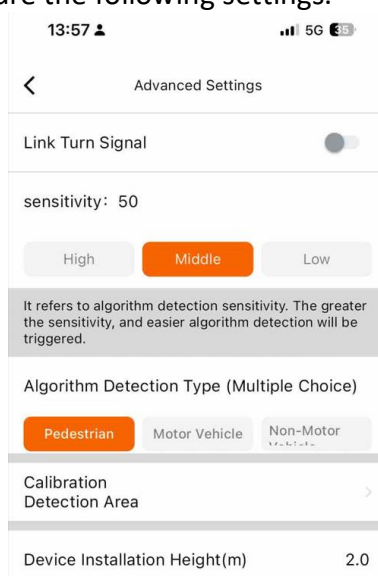


Figure 4-8 BSD Parameter Settings

Sensitivity Settings

The function can be configured with camera detection sensitivity. The function can be configured with three levels: high, medium, and low.

Calibration Detection Area

This function can configure the calibration detection area of BSD camera under corresponding

channel.

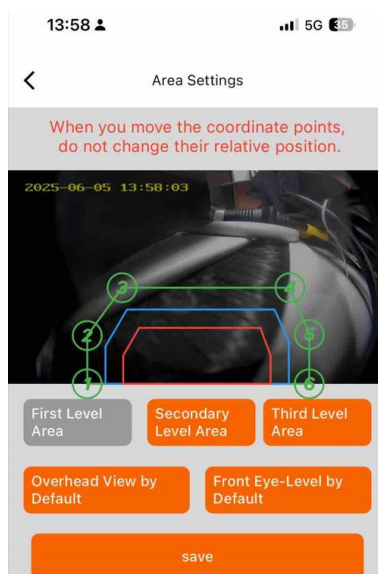


Figure 4-9 Area Settings

Device Installation Height

Custom installation height according to actual installation scene.

Algorithm Detection Type

This function can configure the three detection algorithms of pedestrian/motor vehicle/non-motor vehicle according to the actual usage requirements of the user.

4.3.6 Store and Restore to Factory

Enter Format to format the device.

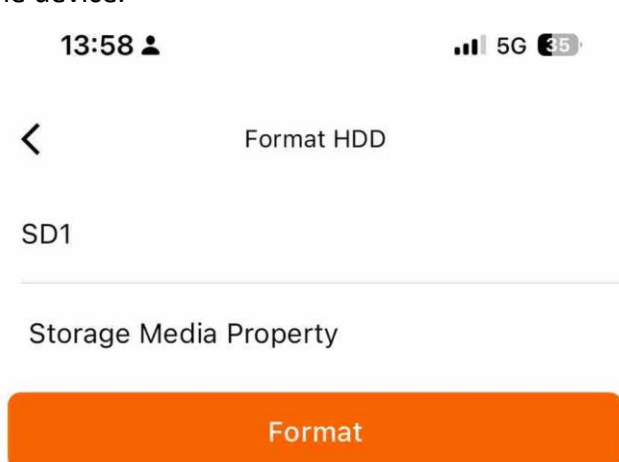


Figure 4-10 Restore

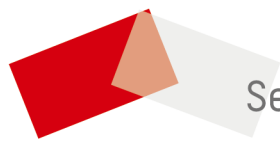
Chapter 5 Device Upgrade

5.1 TF Card Upgrade

- Connect the TF card to the computer and place the upgrade file in the root directory.
- Insert TF Card Slot of Quadropole Screen
- After verifying the upgrade file, the device will automatically upgrade. Pop-up prompt will be displayed when upgrading process and result.
- Prompt upgraded. After the device is rebooted automatically, please enter Maintenance Management - System Information to check if software version is correct.
- Upgraded.

5.2 Upgrade USB flash drive.

- Connect the USB flash drive to the computer and place the upgrade file in the root directory.
- Plug in USB flash drive slot of four-way surveillance screen.
- After verifying the upgrade file, the device will automatically upgrade. Pop-up prompt will be displayed when upgrading process and result.
- The device will be restarted automatically after the device is upgraded. Please enter Maintenance Management - System Information to check if the software version is correct.
- Upgrade.



See Far, Go Further