SA-KC55P

10.36 inch product manual

Product specification

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1. Product description

The SA-KC55P four-way all-in-one machine collects images around the vehicle through four wide-angle cameras installed inside/outside of the vehicle body and transmits it to the all-in-one machine in real time. With this system, the driver can intuitively see the obstacles and pedestrians around the vehicle, effectively reducing the occurrence of accidents such as scratches, collisions, and falls. This product can record all driving pictures to avoid "scraping porcelain" disputes.

The car machine has its own entertainment function, which can provide the driver with multimedia entertainment experience, video playback, music playback, FM transmission, etc.

SIRUI's self-developed mobile phone interconnection function can realize the user's mobile phone screen projection operation on the all-in-one machine, and the all-in-one machine counter-controls the mobile phone, making the operation smarter and more convenient; "small" improvement, "big" experience! Android platform functions such as Baidu Carlife and intelligent navigation can be easily implemented on the SA-KC55P four-way all-in-one machine.

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2. Product Composition List

Product accessories list

Name	Icon	Illustrate	Quantity
Host		10.36-inch high-definition display (1600*720)/4-way camera interface, left/right/rear turn signal, B+/GND/ACC power signal interface, integrated cable	1
Camera		AHD (1080P)/without light/aviation head	4
Camera extension cable A		Front left and right view / 3 meters / aviation head / with shield / with turn signal	3

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Camera extension cable B		Rear view/15m/aviation head/with shield/with turn signal	1
Fastener		Multi-directional adjustment bracket, screw suspension	1
Fixed base		Pedestal bracket, can be fixed on the driver's deck	1

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3. Product parameters

Project	Function introduction	Performance
System	Language	Simplified Chinese / Traditional Chinese / English / Korean
	Interface	Graphical menu operation
	Mode ofoperation	Touch
Video input	Video input	4-channel AHD high-definition video input
	Video recording	Default boot recording, no missing seconds
	Video format	2K H.264 video, 4 channels of video are saved separately
Video display	Real-time display	10.36-inch high-definition IPS screen, 1600*720
	Video display	10 multi-view display modes
	Local playback	Play locally, view anytime
	Screen protector	Can be set: 1 minute / 5 minutes / off
Local entertainment	Music	Support playing U disk local music, multiple loop playback methods
	Video	Support to play U disk local video, support full screen playback
Trigger display	Trigger display	Automatically switch to the corresponding camera view

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Multimedia	Bluetooth	Support bluetooth link mobile phone, play mobile phone music and other functions
	FM	Support FM transmission, connect the car radio to play music
Monitor	Parking monitoring	1/3/5/8/24 hours surveillance video can be selected
Video storage	TF card	CLASS10 U1, minimum 64GB, maximum support 256GB
Audio section	Microphone	Support microphone recording, the menu can be set to close
Power section	Power input	It supports 9V~36V wide voltage, and has power protection circuits such as vehicle-grade surge, overload, overvoltage, undervoltage, short circuit, etc. It is suitable for power supply environment of various vehicles.
Overall power consumption	Engine detection	ACC detection line
	4-way video	Less than 10W (screen display, 4-way camera recording)
Other	Operating temperature	-20~65℃
	Cooling method	Passive cooling
	Reversing line	Adjustable
	Video duration	Video recording time can be set
	Channel trigger delay	Turn signal delay can be set
	Screen mirroring	The four-way screen supports mirror display respectively, and the menu can be set

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4. TF card specification requirements

The quality of the TF card has a great influence on the stability of the video recording. In order to record the video safely, please choose SD cards of big brands such as SanDisk, Kingston, Toshiba and Samsung. Speed certification must be at least Class10

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5. Wiring Instructions

Details are as follows:

Serial number	Interface	Illustrate
1	4 cameras	Connect the camera according to the number on the line; CH1 (front); CH2 (rear); CH3 (left); CH4 (right);
2	3 trigger lines	Connect to 10~36V trigger signal source such as reversing/turn signal
3	Power cable	ACC/B+/GND; with fuse;

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6. Camera installation

Left and right cameras:

Locate the drilling holes, find a suitable mounting position under the rearview mirror or crossbar, mark with a pen and drill the appropriate size screw holes.

Remove the mounting plate and install it in reverse.

Install it under the rearview mirror or cross bar, and tighten the screws of each part.

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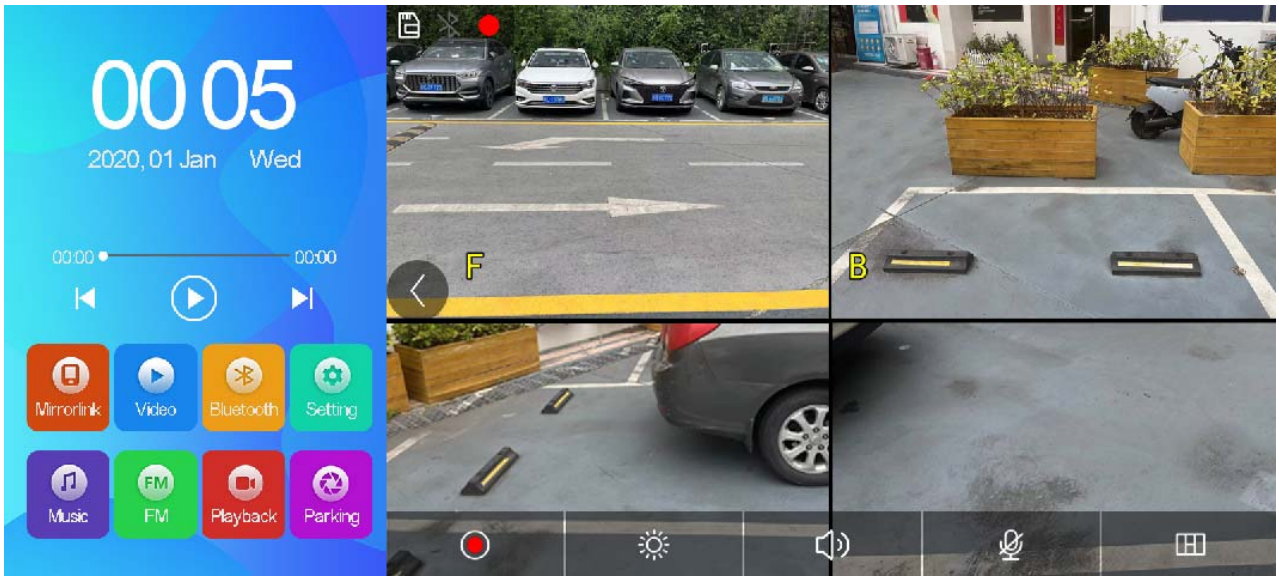
7. Interface description

1、 Video interface



A、 Home page

As shown in the picture above, the four-channel camera image will be displayed on the main page. When a card is inserted, the system will automatically enter the recording mode. When recording, the red dot will flash.

In the recording or browsing window, click on any camera screen to enter the single camera display mode;

At this time, press and hold the place where you want to enlarge the image for about 1s, the image will be automatically enlarged by 2 times, and then long press to enlarge 4 times, and then long press for 1s, the image will return to normal size;

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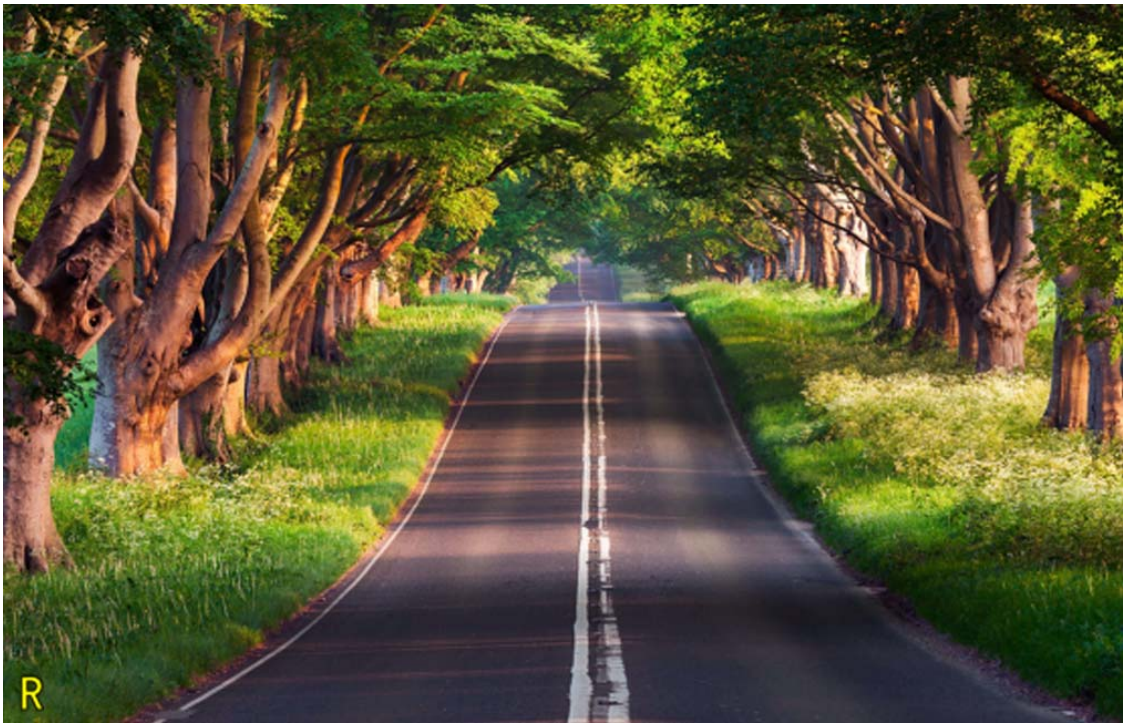
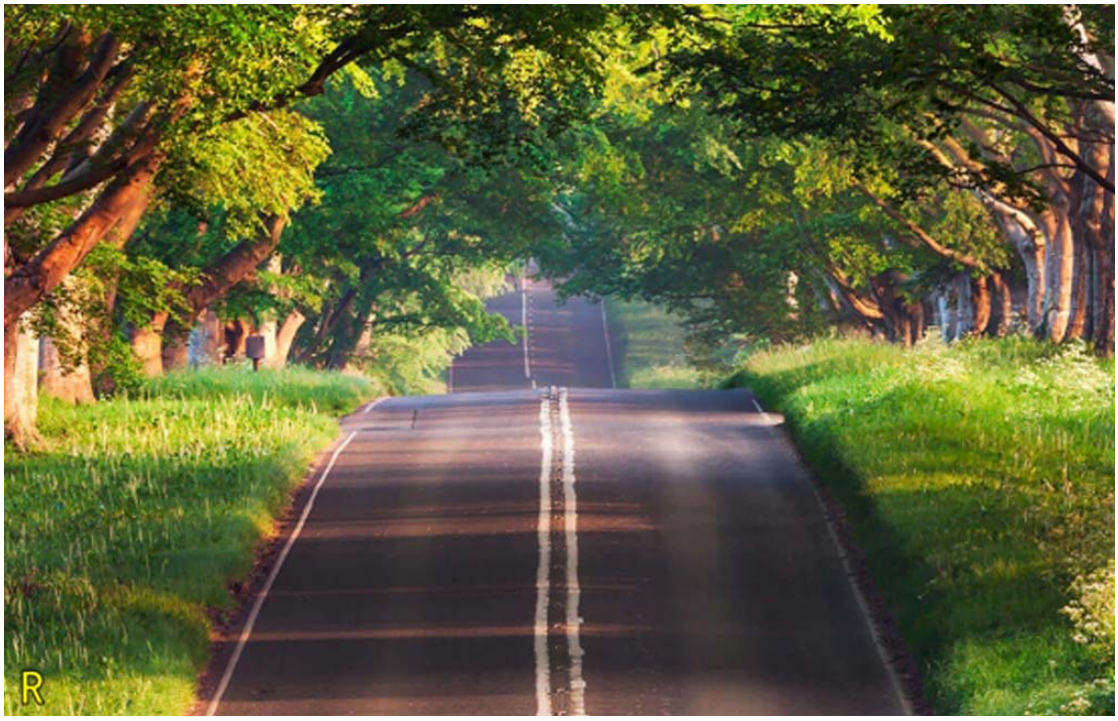
Normal icon:



Long press the middle of the image for about 1s:



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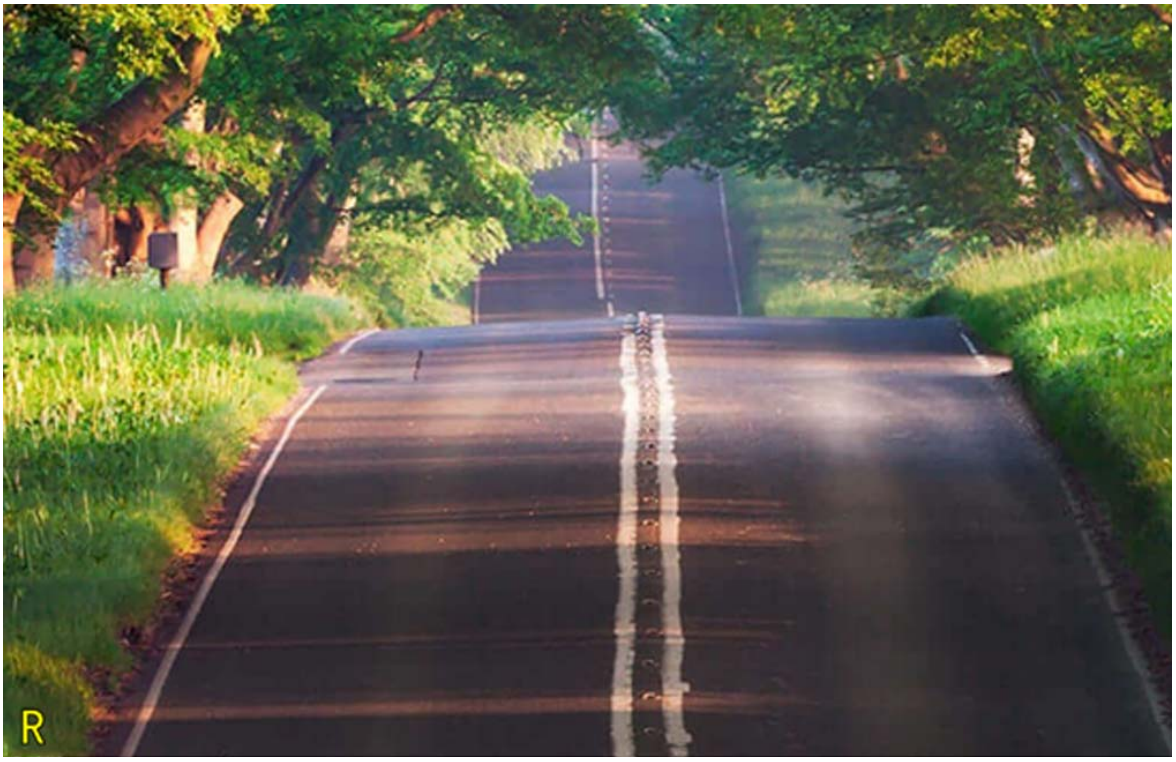
2x magnification

Continue to press and hold for about 1s:



4x magnification

B、 Video

As shown in the figure, click the icon to stop recording, and manually start recording.

C、 Brightness

Click Brightness and drag the brightness bar above the Brightness button to

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set the brightness.

D、 Volume

click volume

Above the volume buttons, you can drag the volume bar to set the volume.

E、 Microphone switch

Click this icon to toggle the microphone recording mode on/off. (off by default)

F、 Display mode

Click Display Mode to switch to split screen mode:

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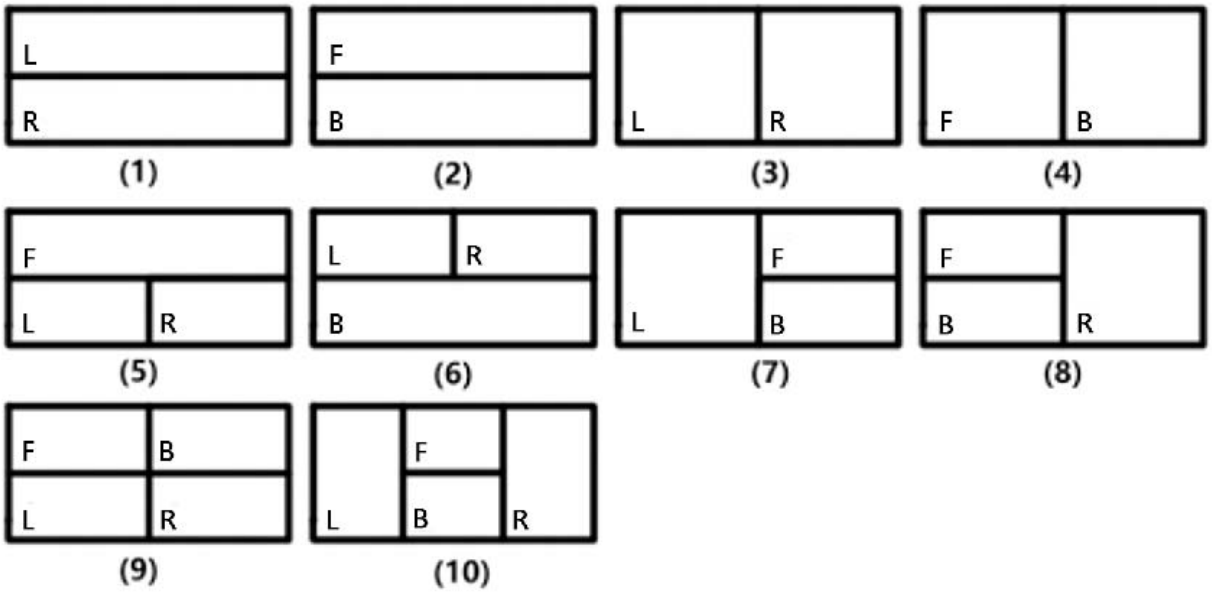
All modes are described below:



1. Horizontal dichotomy - before and after

2. Horizontal bisection - left and right

3. Vertical bisection - front and rear

4. Vertical Bisection - Left and Right

5. Horizontal three points - front left and right

6. Horizontal three-pointer-back left and right

7. Vertical three-pointer - front and rear left

8. Vertical three-pointer - front and rear right

9. Four-split screen

10. Three-split screen

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2、 Home

Home page options on the left side of the main interface:

A、Time display

After setting the time and date, it will be displayed in this position;

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B、Music Quick Control

After inserting the multimedia U disk, the system will automatically identify the music, and the name of the currently playing song and lyrics will be displayed below the time;

Support a variety of loop modes, (single loop, list loop, random play), you need to enter the music interface settings.

Corresponding to "previous track", "play/pause" and "next track" respectively.

C、Mirrorlink

Click the "

" mobile phone interconnection option to enter the mobile phone interconnection interface:

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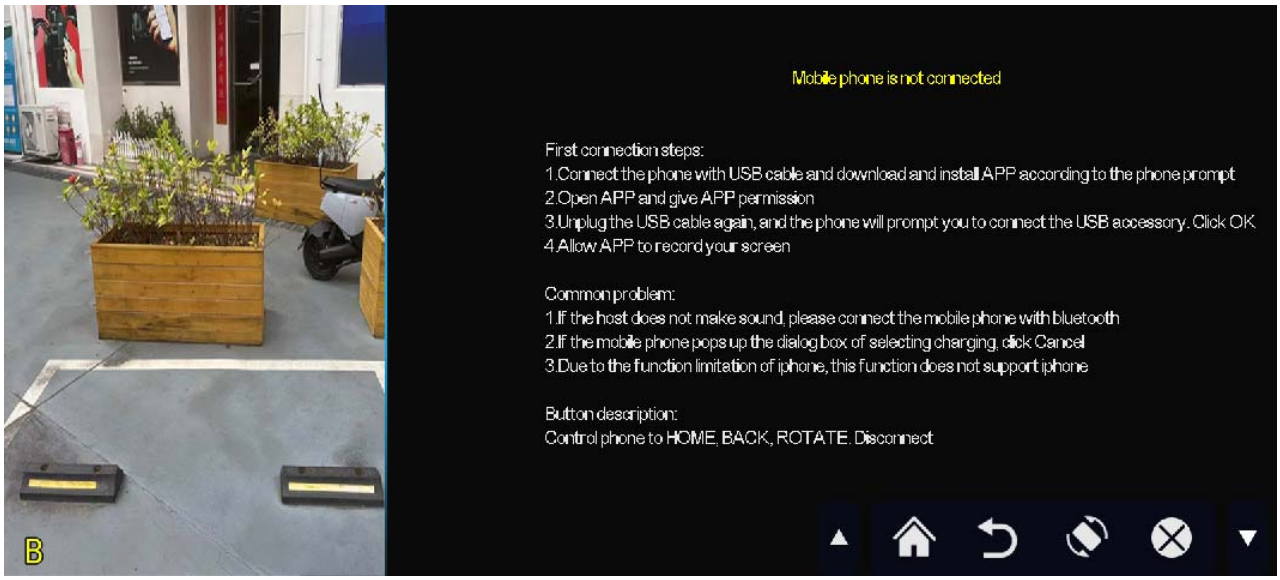

The simple operation is as follows:

1. Connect your phone with a USB cable

2. Download the "Sirui Internet" APP

3. Delivery Authority

4. Follow the prompts and re-plug the USB cable

5. Interconnection between mobile phone and all-in-one computer

(For details, see IX. Introduction to Mobile Phone Interconnection Functions)

D、Video

Click the "

" video option, the system enters the video playback interface:

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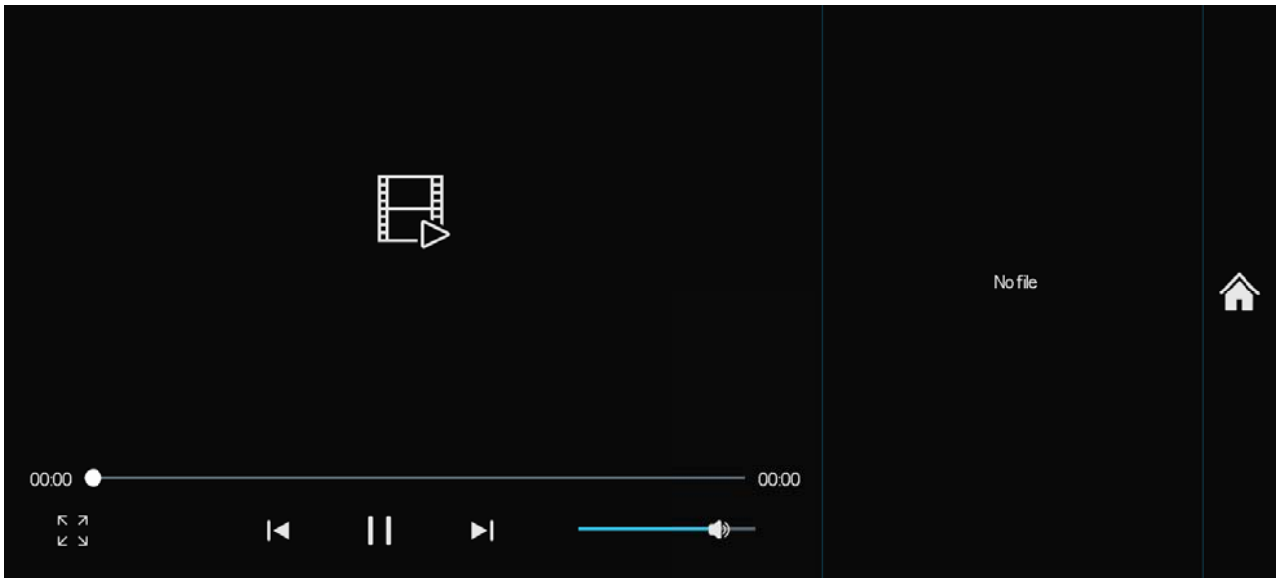

After inserting the multimedia U disk, the system will automatically recognize the video, and select the video to play from the menu on the right.

When playing a video, click the icon to enter the full screen playback of the video.

Click the right button to realize the previous, stop/play, next, and volume adjustment functions.

	Video format support	Encoding format	Remark
1	F4V	AVC (H.264)	
2	MOV	AVC (H.264)	
3	MP4	AVC (H.264)	
4	TS	AVC (H.264)	

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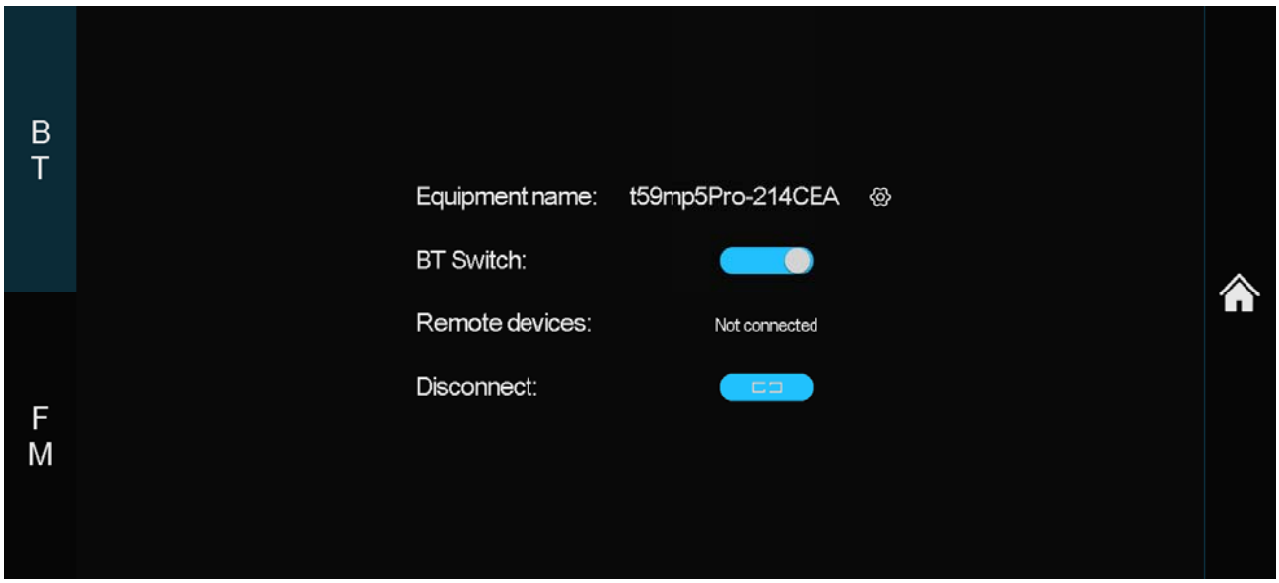
For details of multimedia playback, please refer to **"SA-KC55P Multimedia U Disk Playback Instructions V1.1"**

E、Bluetooth

Click the "

" Bluetooth option to enter the system Bluetooth connection interface:



Bluetooth connection:

The page will display the device name：t59mp5Pro-214CEA

Click "

" in "
" icon to enter the interface for setting the name of the Bluetooth device:

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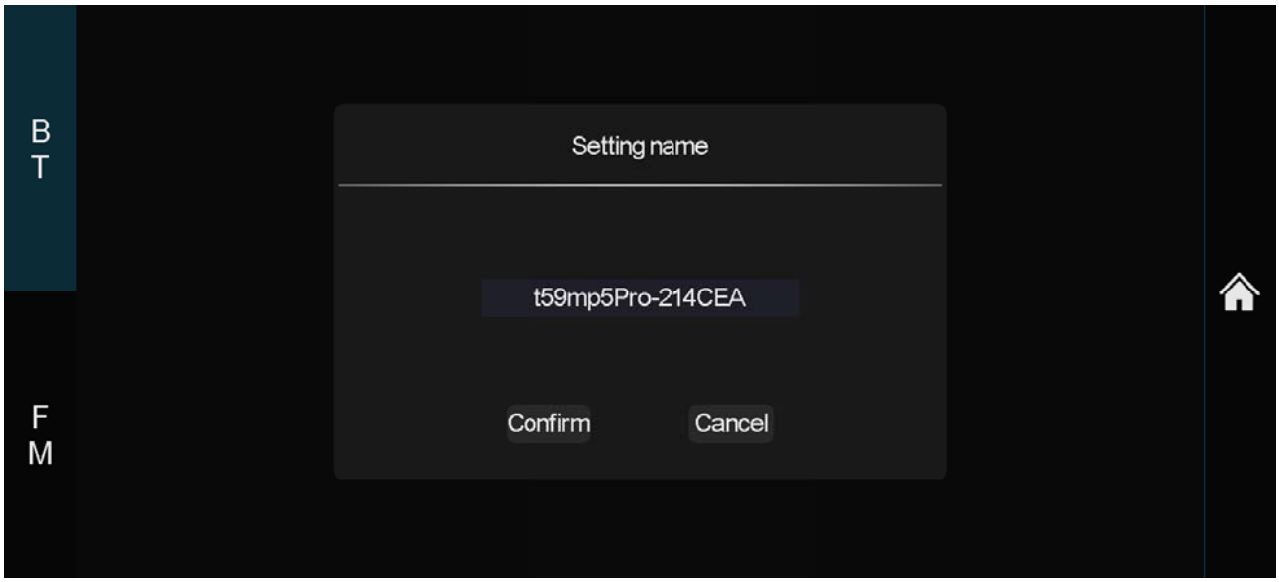
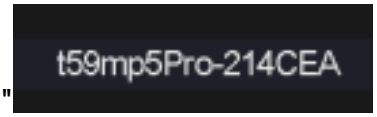


Click the name "  " in the picture to enter the setting name:

After entering the name of the Bluetooth device you want to set, click OK, the phone will turn on the Bluetooth switch, and select the device with the name to connect. After the connection is successful, the device name of the mobile phone will be displayed on the remote device, and functions such as playing music on the mobile phone can be realized at this time. After connecting to the bluetooth,

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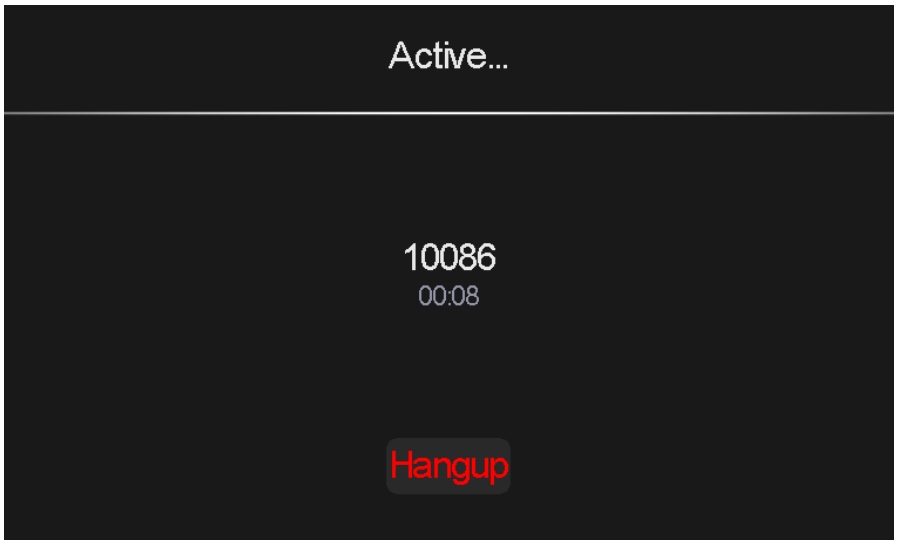
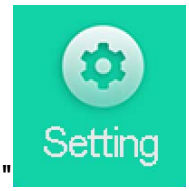
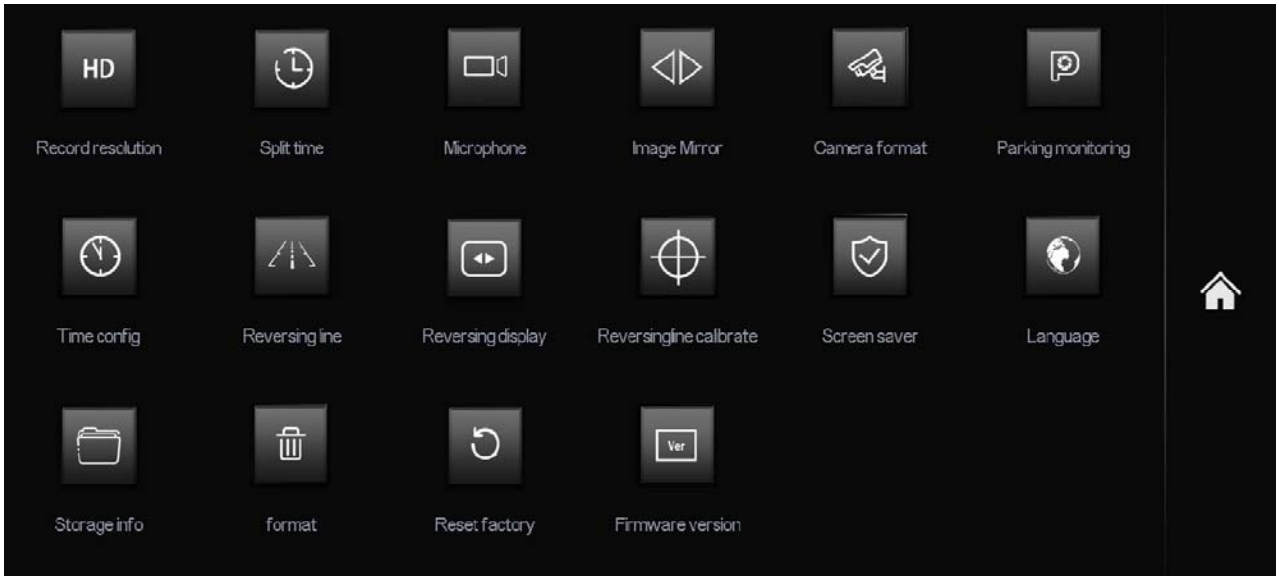
you can call the machine to realize the call function:



F、Setting

Click the " 

" setting option to enter the system setting interface:



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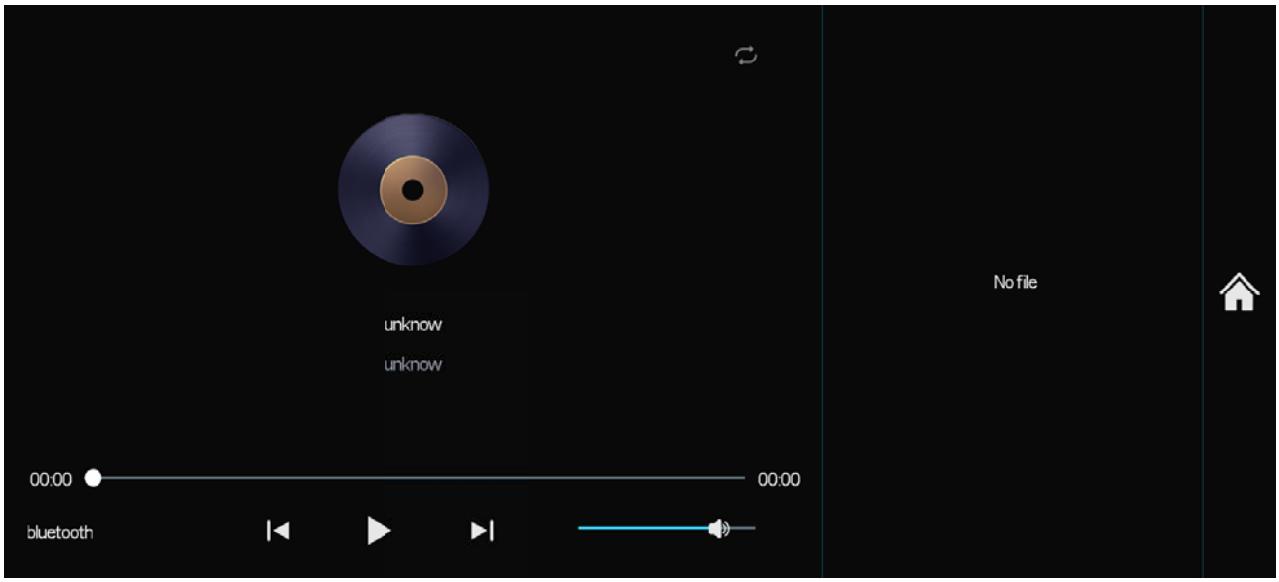
G、Music

Click the "

" music option, the system enters the music playback interface



After inserting the multimedia U disk, the system will automatically recognize the music, the right menu will display the song list, select the corresponding song name to play;

Click the " " button at the top left of the song list to choose a variety of loop modes (single loop, list loop, random play)

Click " " to realize the previous, stop/play, next, and volume adjustment functions.

Music playback is divided into "local" and "Bluetooth" modes, when inserting a music U disk and connecting Bluetooth to play music at the same time.

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You can click the "

" button to switch local or Bluetooth music playback.

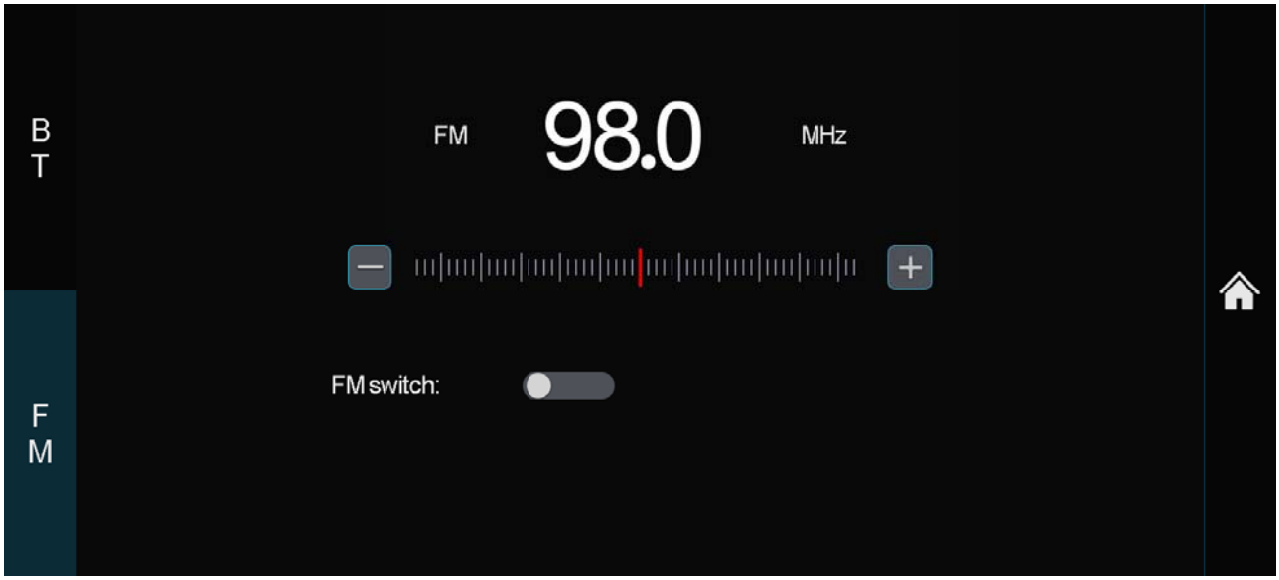
	Audio format support
1	MP3
2	WAV

H、FM

Click the "

" connection option to enter the FM transmitter interface:

FM settings:



Select the frequency band to transmit, e.g. FM 98.0 MHZ

The car radio is also adjusted to accept the frequency band to FM 98.0 MHZ

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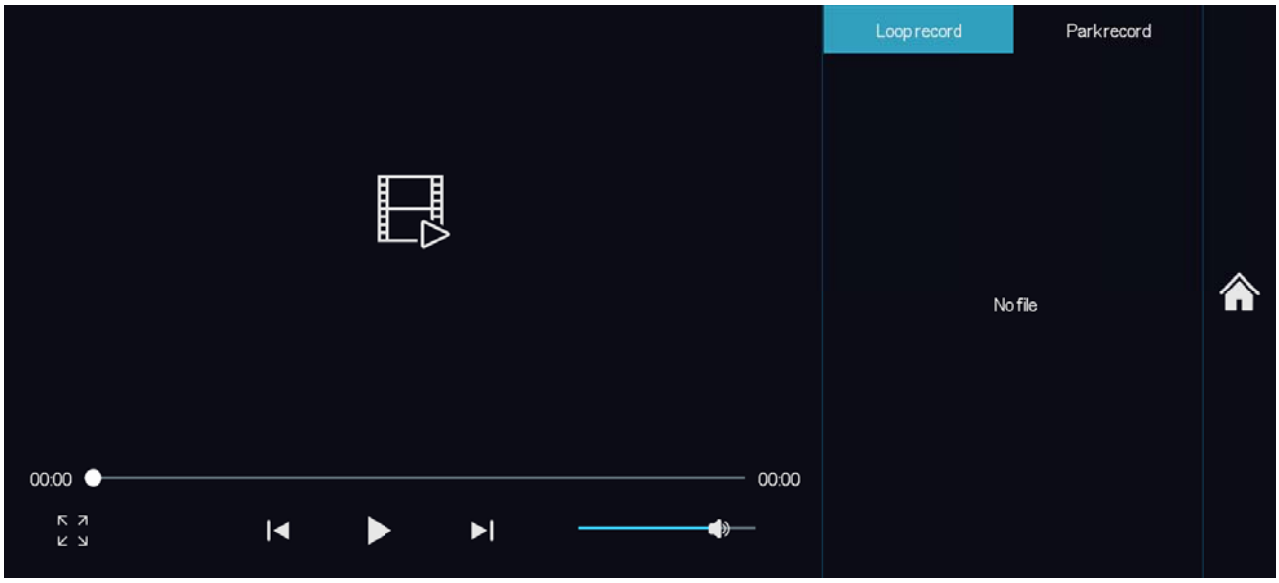
Click "Turn On Device"

The car radio can be connected to the FM transmission signal of the system.

I、Playback

Click the "

" playback option to enter the local video playback interface:



Select "Loop record" from the menu on the right, and select the video to be played back;

Select "Park record", it is the video recording under the Parking monitoring function;

J、Parking monitoring

Click the "

" Parking monitoring option to enter the selection

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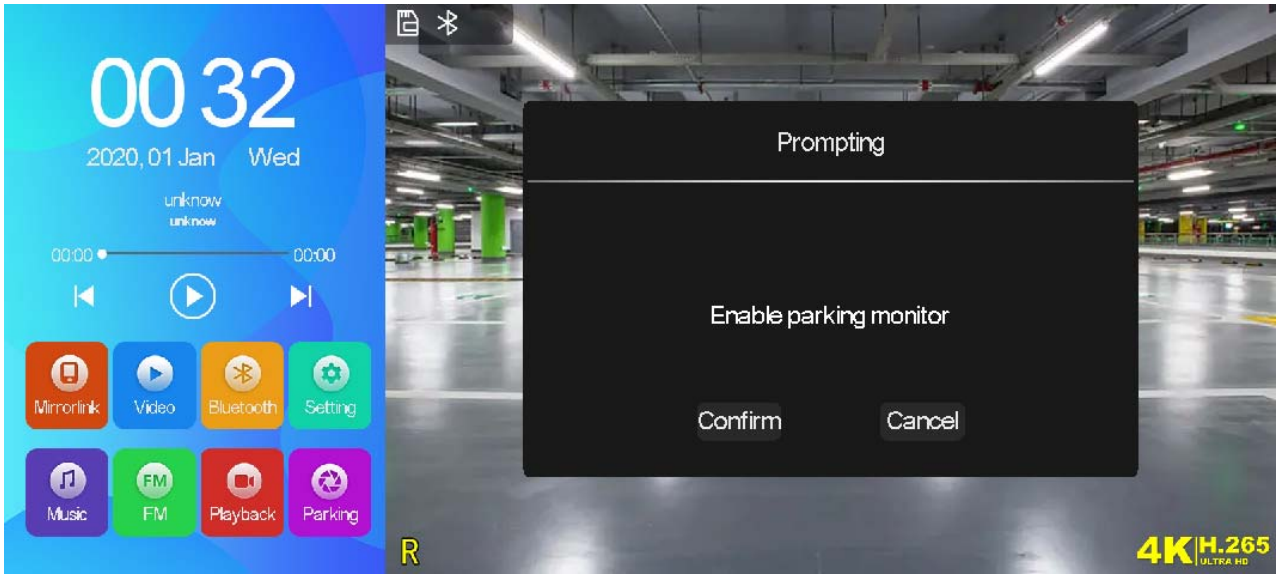
confirmation interface:



Select the "Confirm" option, the time-lapse video will be used to shoot when parking, one frame per second, occupying very little space;

32G card: normal video can be recorded for 6.4 hours, time-lapse video can be recorded for 160 hours

3、 System settings

After entering the system setting interface, you can operate the following functions:

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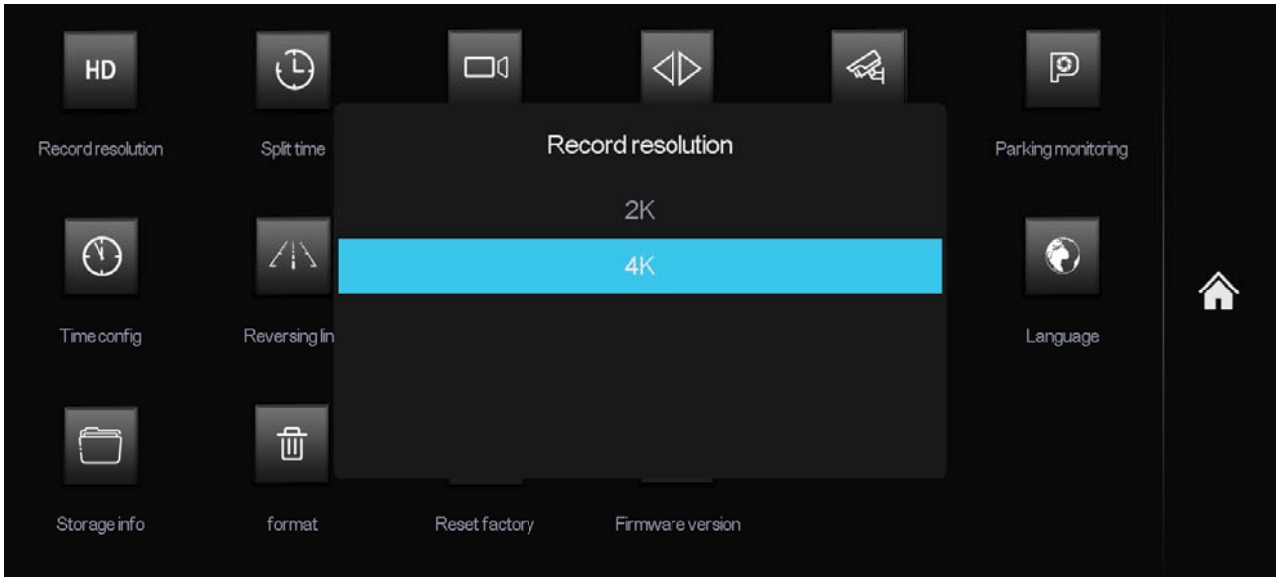
A、Record resolution

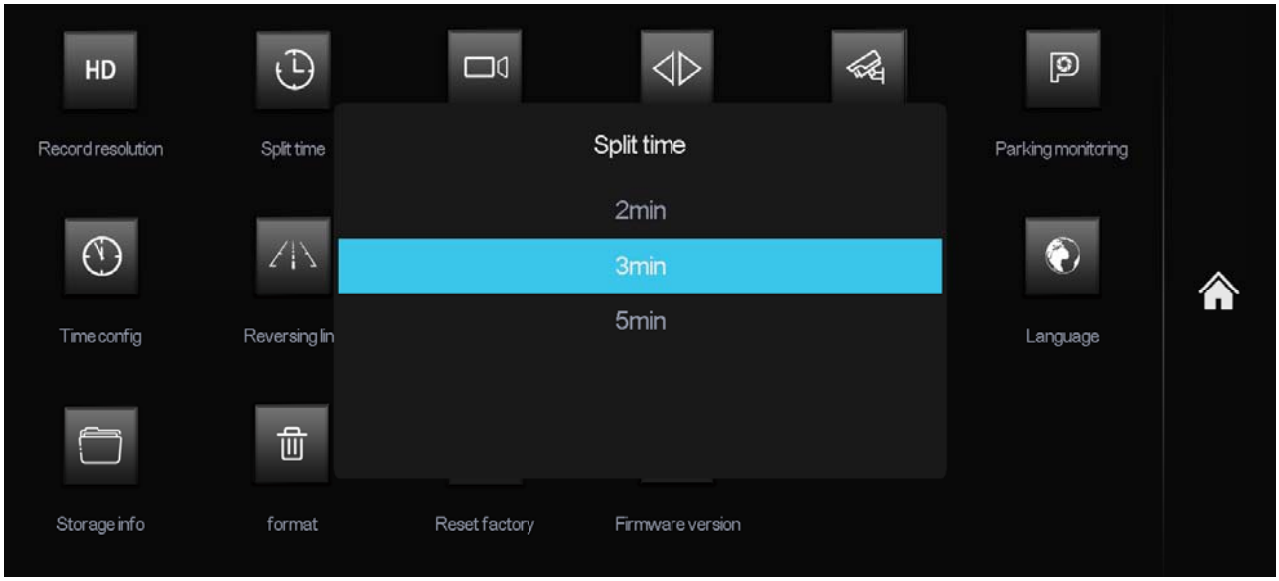
Click "Record resolution" to enter the video resolution setting:

Resolution selection: 2K/4K



B、Split time

Click "Split time" to enter the video segment time setting:



Video segment time can be selected: 2 minutes / 3 minutes / 5 minutes

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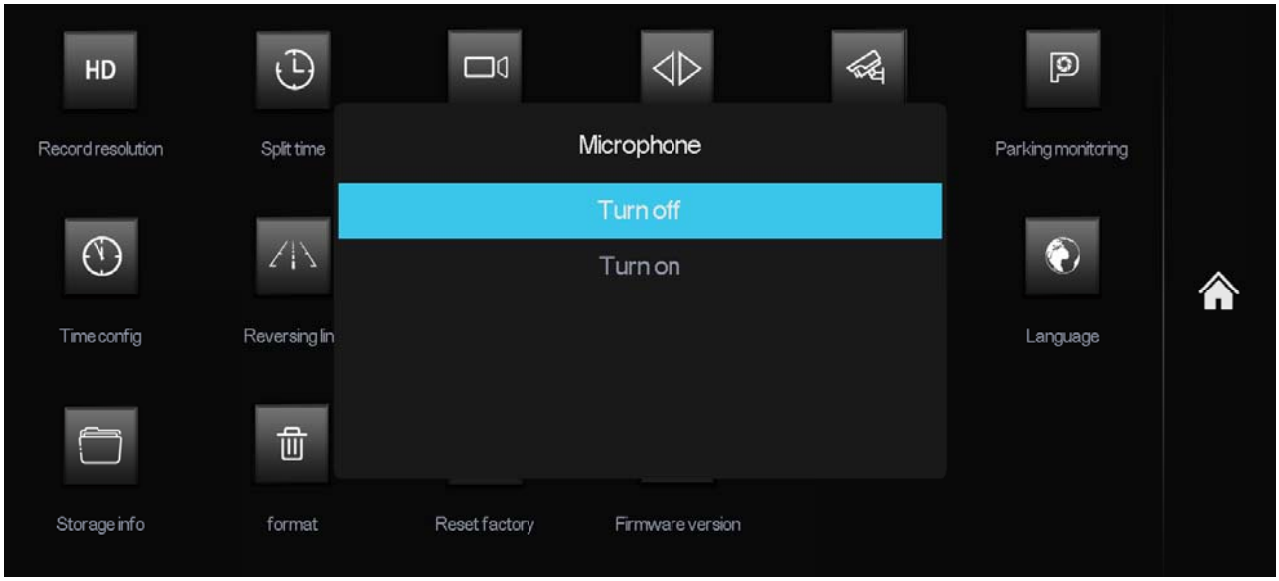
The system defaults to 3 minutes.

C、Microphone

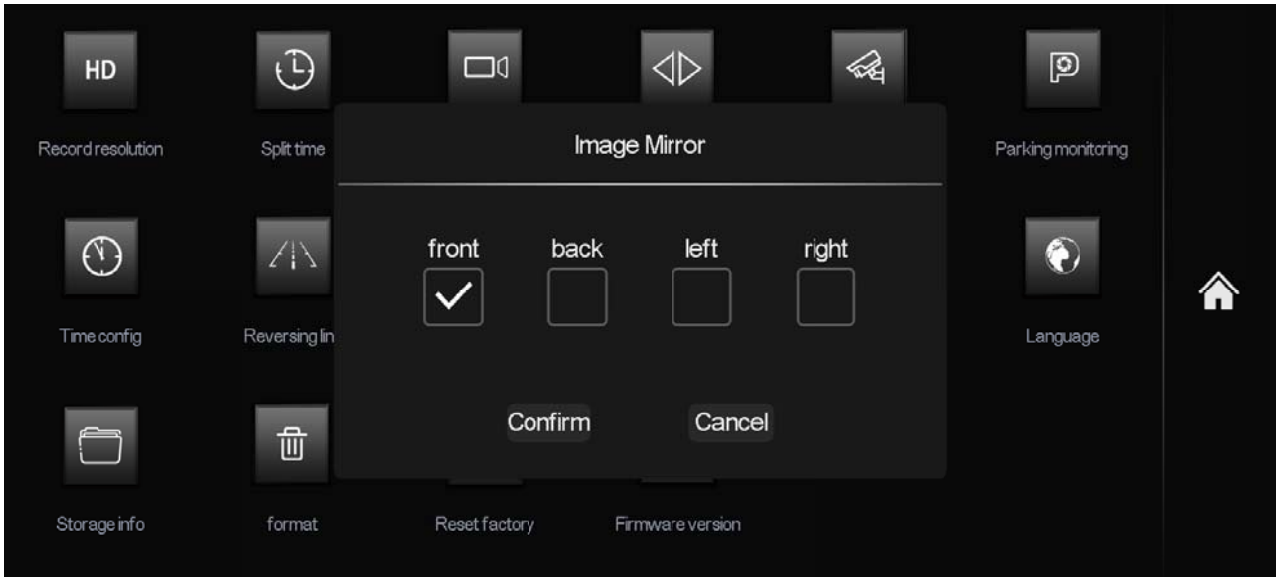
Click "Microphone" to enter the settings:



You can choose to Turn off or Turn on.

D、Image mirror

Click "Image mirror" to enter the settings:



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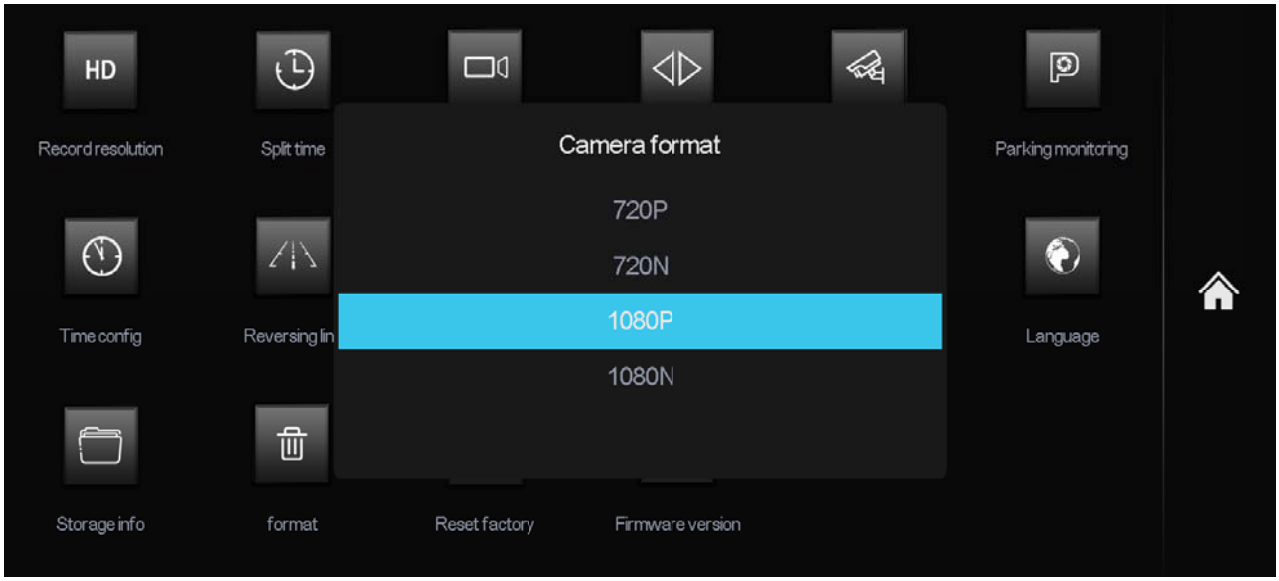
The system can perform screen mirroring operations for the front/back/left/right cameras respectively

Check the camera to be mirrored and click Confirm.

This option allows customers to flexibly install the camera.

E、Camera format

Click "Camera format" to enter the settings:



Camera format: 720P/720N/1080P/1080N

4 formats, choose the standard camera format

Note: Selecting an inappropriate camera format will result in abnormal display and recording images. If you find that the camera has a blurry screen or abnormal colors, please check whether the corresponding camera format is selected.

F、Parking monitoring

Click "Parking monitoring" to enter the settings:

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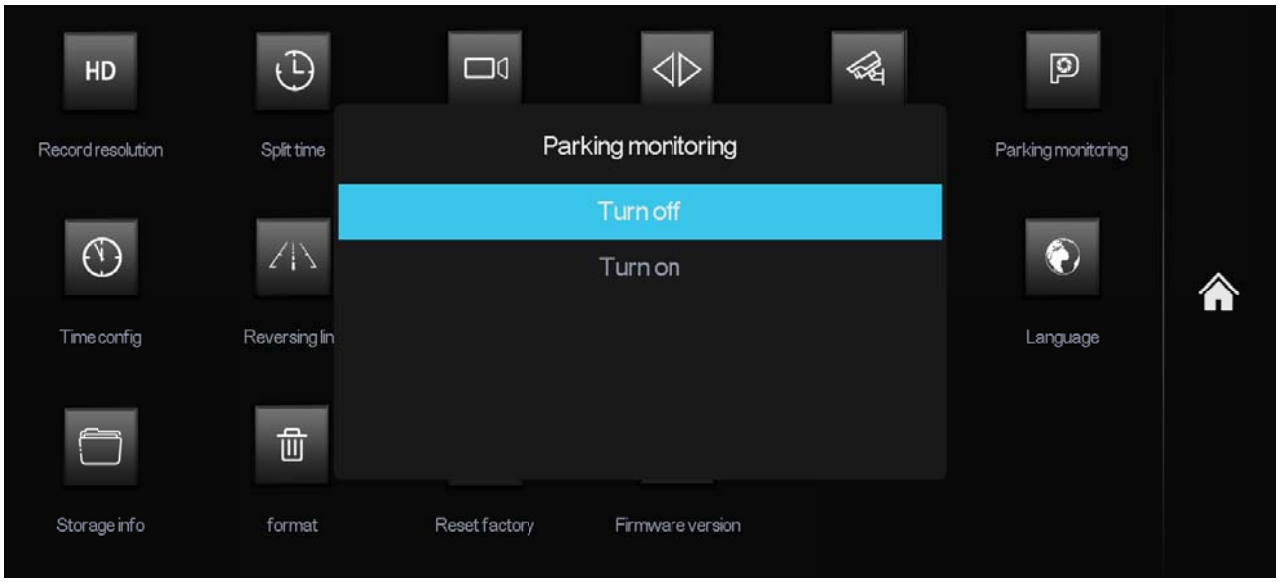
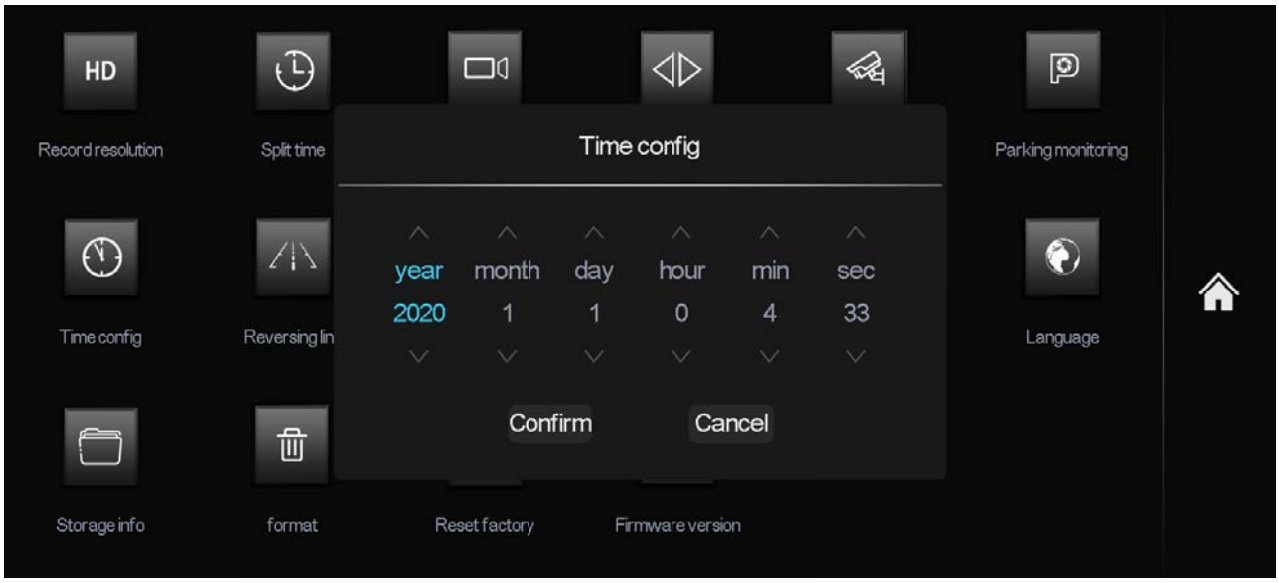


Here you can select "Turn off / Turn on"; **(For details, see 8. Introduction to the function of Parking monitoring)**

G、Time config

Click "Time config" to enter the settings:



Set separately: year / month / day / hour / minute / second

H、Reversing line

Click "Reversing Line" to enter the settings:

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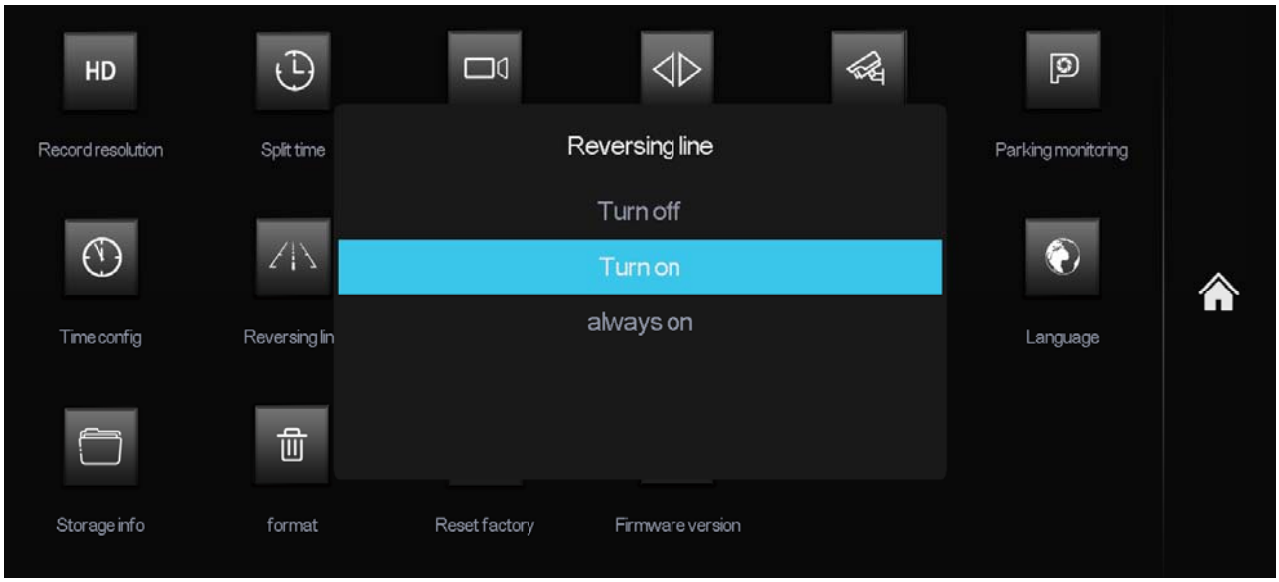


There are three options for the reversing line: closed/open/normally open

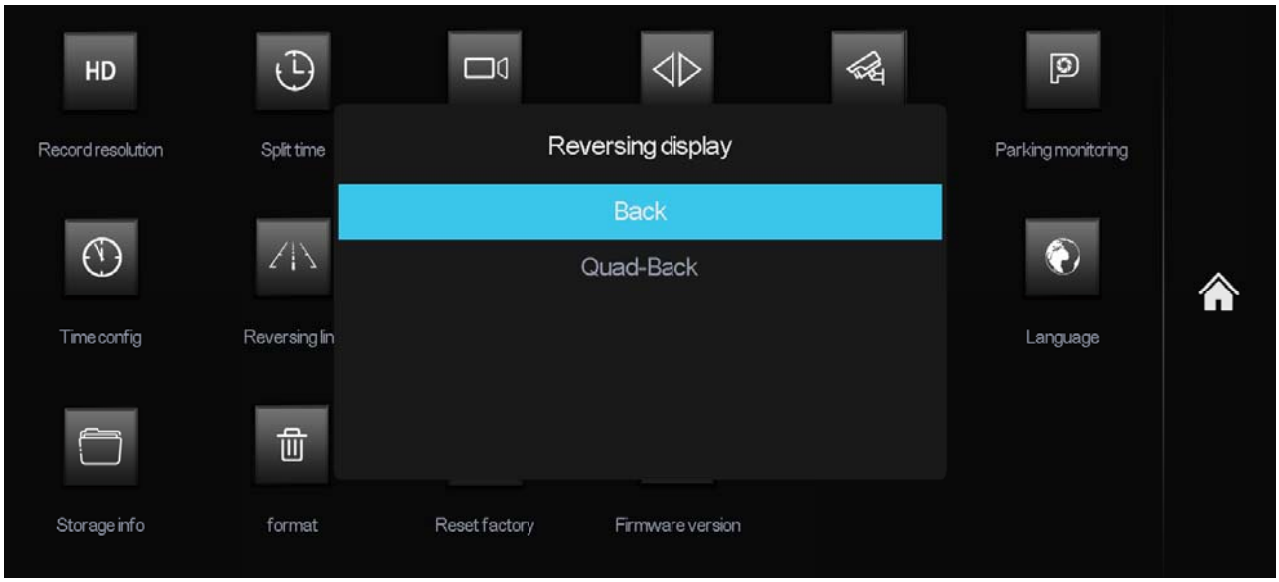
Off: The reversing assist line will not be turned on at any time

On: When the system receives the vehicle reversing signal, it will display the reversing assist line

Always open: at any time, the reversing assist line will be displayed

I、Reversing display

Click "Reversing Display" to enter the settings:



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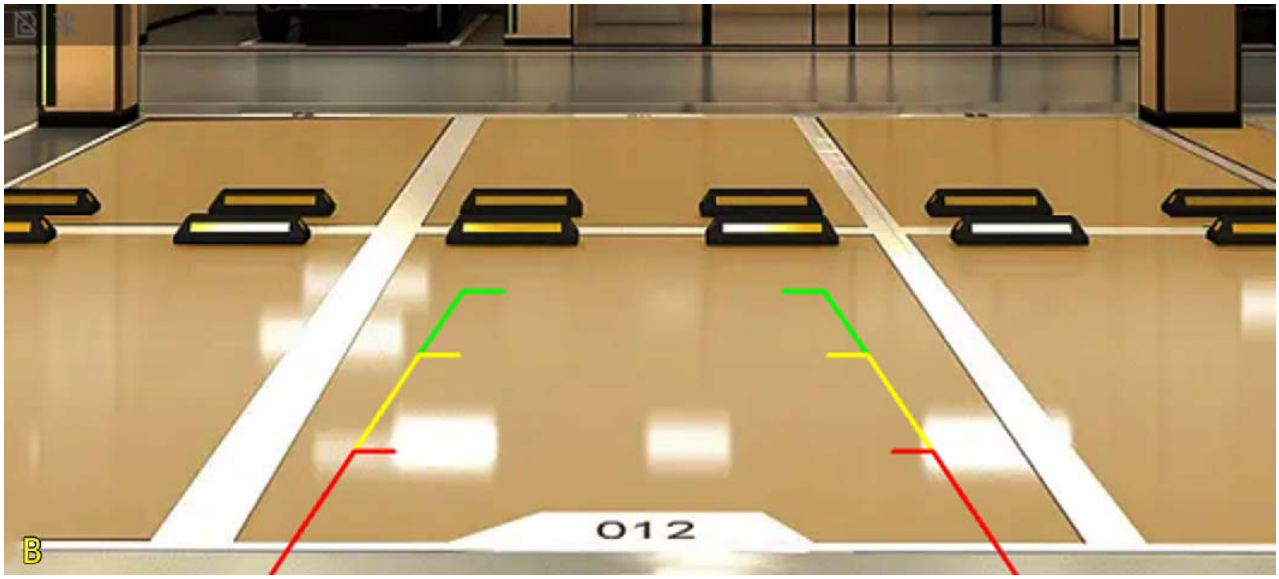
Reversing auxiliary line can be selected:

single-screen display / multi-screen display



single-screen display

multi-screen display

J、Reverse Line Calibration

Click "Reverse Line Calibration" to enter the settings:

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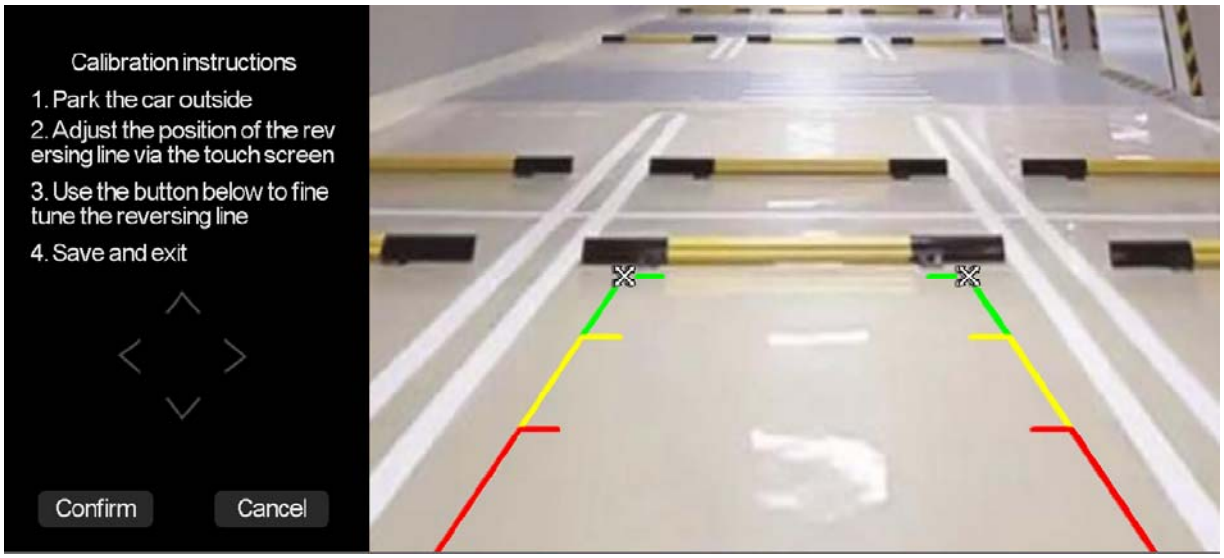

Park the car in the middle of the parking space, Manually drag the " " on the left to adjust the position of the reversing auxiliary line up, down, left and right, so that the reversing auxiliary line is level with the parking line on the left side of the ground.

Then manually drag the " " on the right to adjust the position of the reversing auxiliary line up, down, left and right, so that the reversing auxiliary line is horizontal to the parking line on the right side of the ground.

After adjusting the reversing line, click Save Calibration to confirm.

K、Screen Saver

Click "Screen Saver" to enter the settings:

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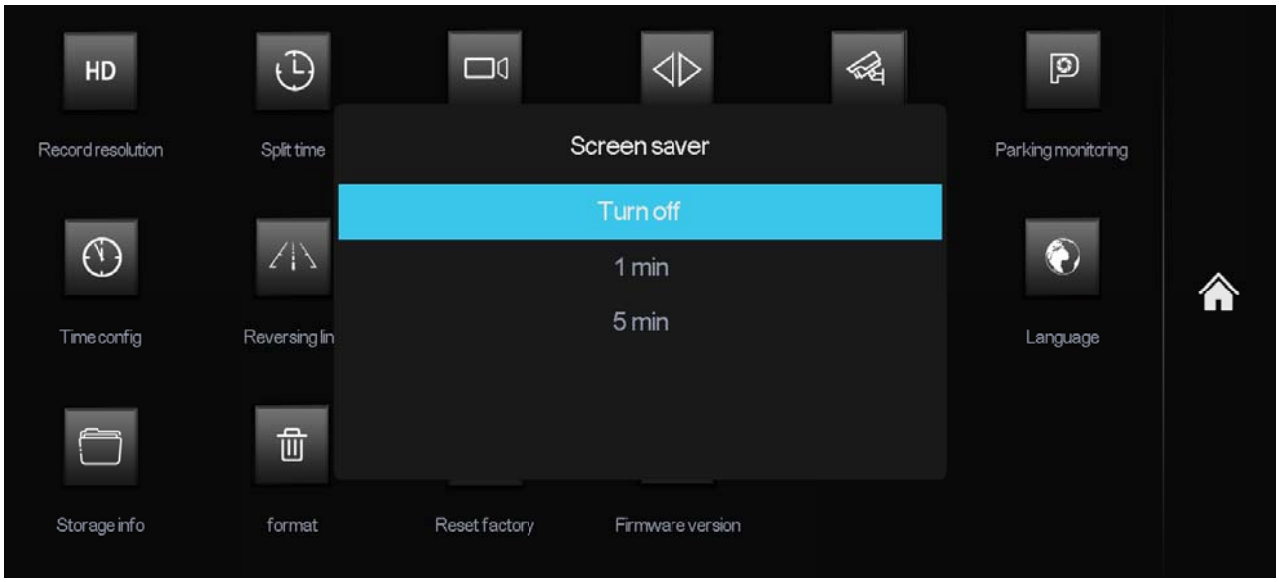

Screen saver can be set to: Turn off / 1min / 5min

After setting 1 minute or 5 minutes, the screen will turn off automatically if the system does not operate for the corresponding time.

After entering the screen saver, press the power button again to turn on the screen.

L、Language

Click "Language" to enter the settings:

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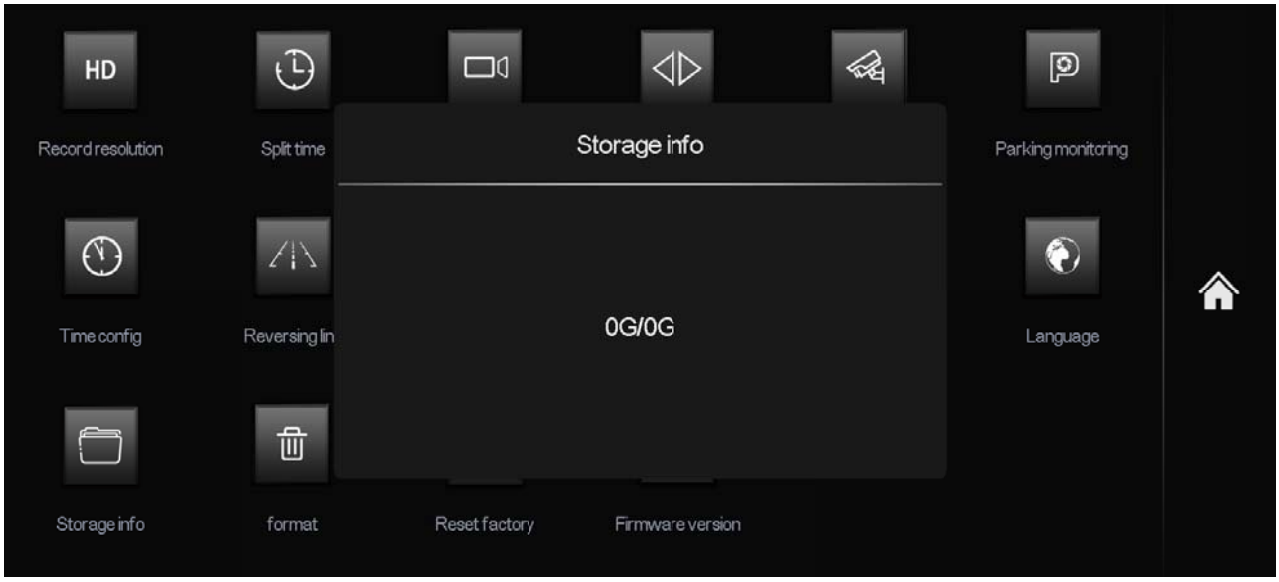
Language can be set: Simplified Chinese（简体中文） / Traditional Chinese（繁體中文） / English / Korean（한국어 공부 해요）

M、Storage info

Click "Storage Info" to enter the menu:



The system will display the information of the inserted TF card, the front indicates the remaining available capacity, and the rear indicates the total capacity of the TF card.

N、SD card

Click "SD card" to enter the settings:

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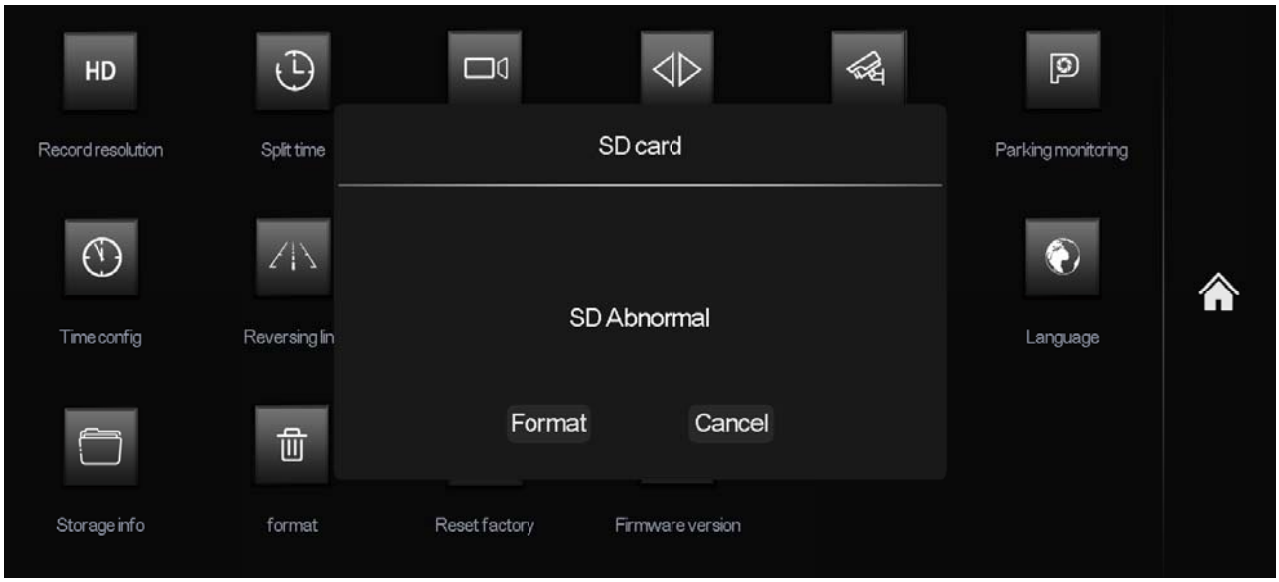

This option will format all data information of the inserted TF memory card.

It is recommended to manually format the TF memory card when inserting it for the first time to ensure sufficient capacity of the card.

Note: It is recommended that users regularly format the TF memory card manually.

O、Reset factory

Click "Reset Factory" to enter the settings:

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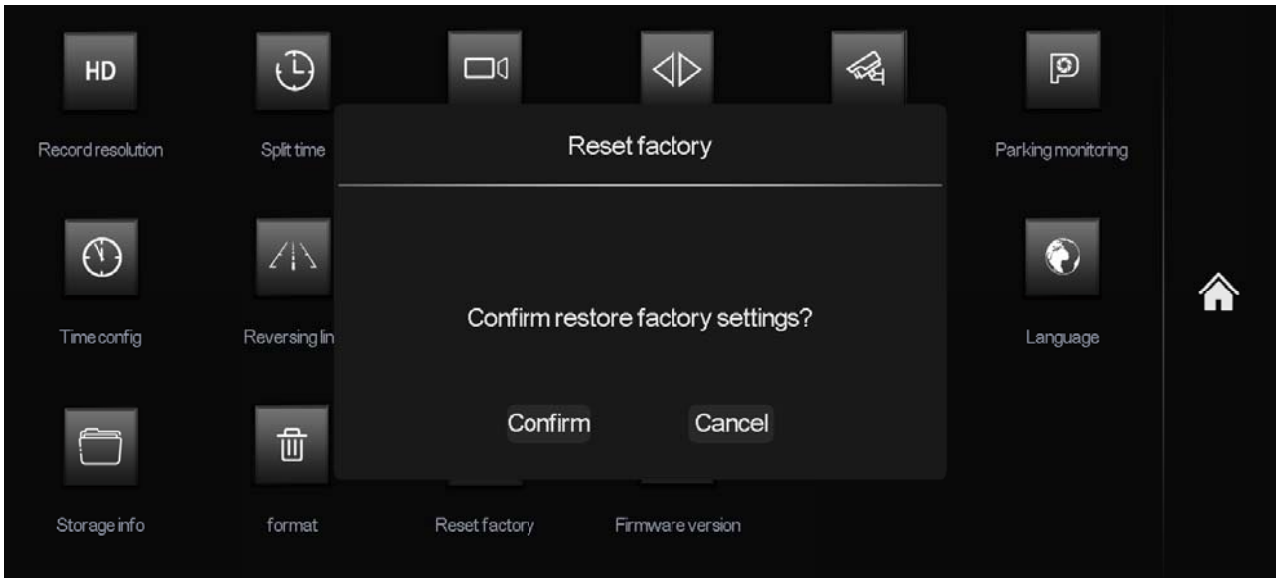
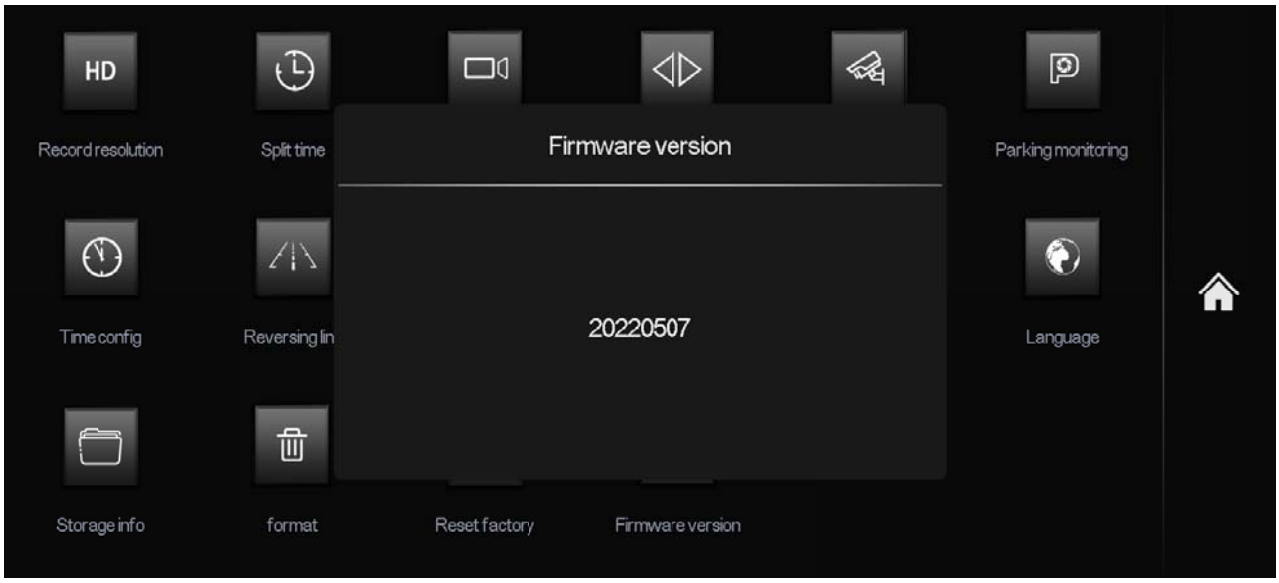


Reset Factory, the system will restore all settings to the original state.

P、Firmware version

Click "Firmware version" to enter the menu:



This option can see the current basic version, which is convenient for confirmation.

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Q、Return

Click "" in any interface, the system returns to the recording interface.

8. Parking monitoring

Our company's parking monitoring adopts time-lapse video recording, which takes up very little space;

32G card: normal video can be recorded for 6.4 hours, time-lapse video can be recorded for 160 hours

In the settings, "Parking monitoring" option, if you choose "**on**";

After the car is turned off (ACC is disconnected), the system will immediately prompt whether to enter the parking monitoring function:

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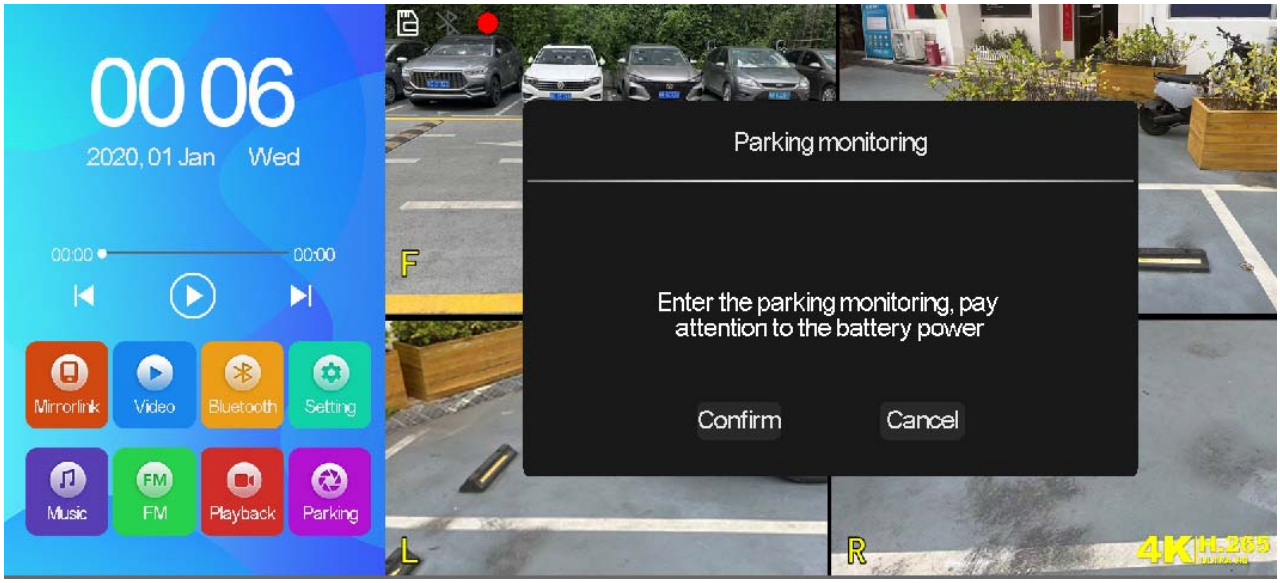

Select the "OK" option to enter the parking monitoring duration selection;

If "On" is selected, when the prompt "Whether to enter the parking monitoring function" is prompted, if the 5S does not operate, the system will automatically enter the parking monitoring for 3 hours.

After prompting the countdown of "screen off soon", the machine screen will automatically turn off to reduce power consumption;

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Manually touch the screen to light up the screen display, the system will prompt "parking monitoring, shut down later"

At this point, the system cannot perform any operations unless the car is re-ignited (ACC is powered on)

In the settings, the "one beat per second" option, if you choose "**off**";

After the car is turned off (ACC is disconnected), the system will also prompt immediately whether to enter the parking monitoring function:

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At this time, select the "OK" option again, and you can still enter the parking monitoring;

If this function is not required, select "Cancel", or no operation is required, and the system will enter the normal shutdown process.

9. Mobile phone interconnection function

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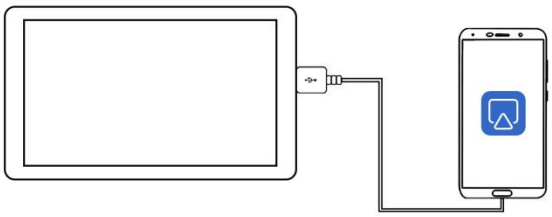
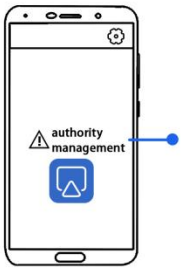
Steps to connect for the first time:

1. After confirming that the host is on the main interface, use the USB cable to connect the mobile phone, and download the SIRUI Internet APP according to the prompts on the mobile phone, or scan the QR code below to download the APP. (Currently only supports Android phones)



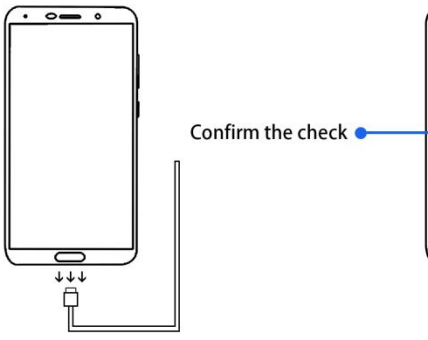
https://v.triplecam.cn
Please use your browser to scan

2. Open the SIRUI Internet APP, click the permission management above the icon, and give the APP permission;

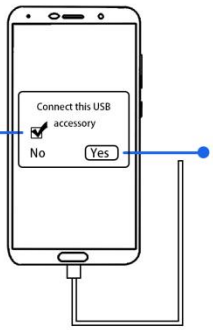


Permission management button

3. Re-plug the USB cable, then the phone will prompt to connect this USB accessory, click OK;



Confirm the check



Click the Confirm button in the pop-up window

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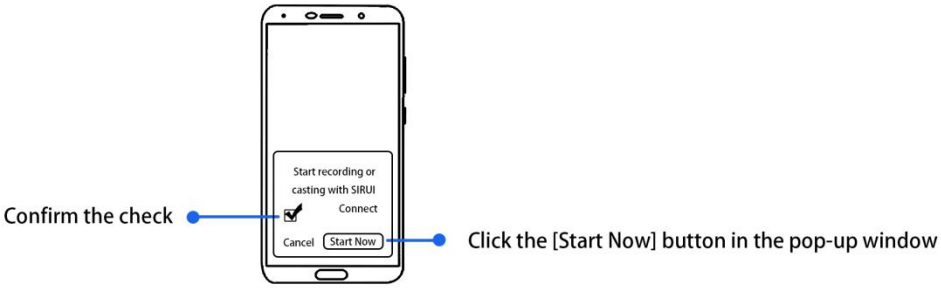
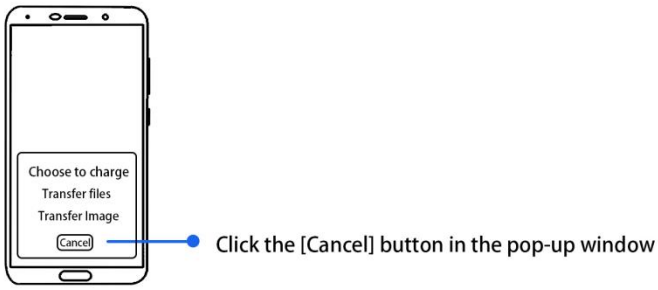
4 Allow SIRUI APP to record your screen;



Common problem:

1 There is no sound from the host, please connect to Bluetooth first;

2 When the dialog box for selecting charging, transferring files, and transferring pictures pops up, click Cancel;(If the connection is abnormal, please try to click [Transfer File] or [Transfer Image] to connect)



Description of function buttons (from left to right):

Drag the position of the control bar up, control the phone back to the main interface, return to the previous level, rotate the screen, disconnect and return to the main interface of the host, and drag the position of the control bar down;

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10. OTA function

In order to facilitate customer upgrade needs, our solution supports OTA upgrade:

Specific operations:

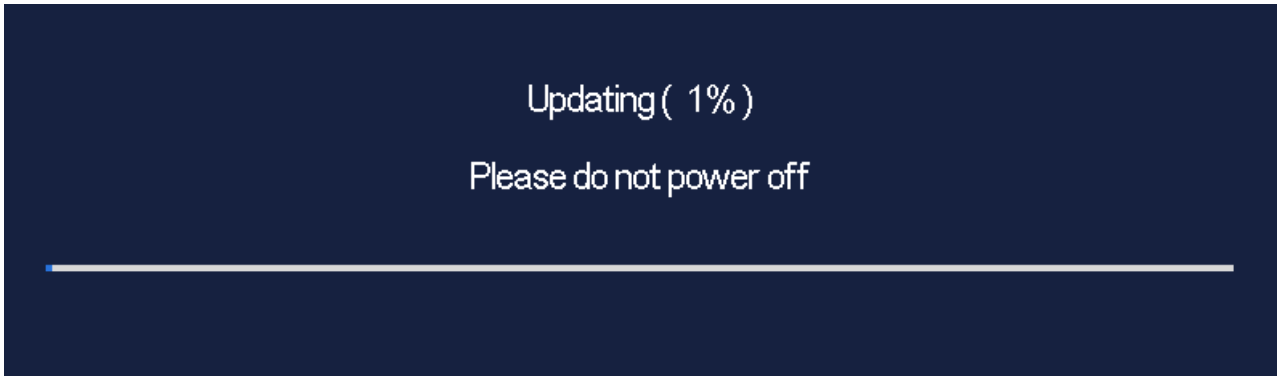
1 Copy the upgraded file to the U disk where the video file is written;

2 Insert the U disk into the system;

3 The system prompts "Whether to enter the upgrade"

4 Select "Yes" to enter the OTA upgrade

5 Wait for the upgrade



6 After the upgrade is complete, the system will power off and shut down;

7 The upgrade is complete For detailed description of this function, please refer to "**SIRUI OTA Upgrade Operation Instructions**"

Warning:

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.

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

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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.

NOTE: This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

RF Exposure Statement

To maintain compliance with FCC’ s RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

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