TS105 Platform Operation Manual

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1. Introduction

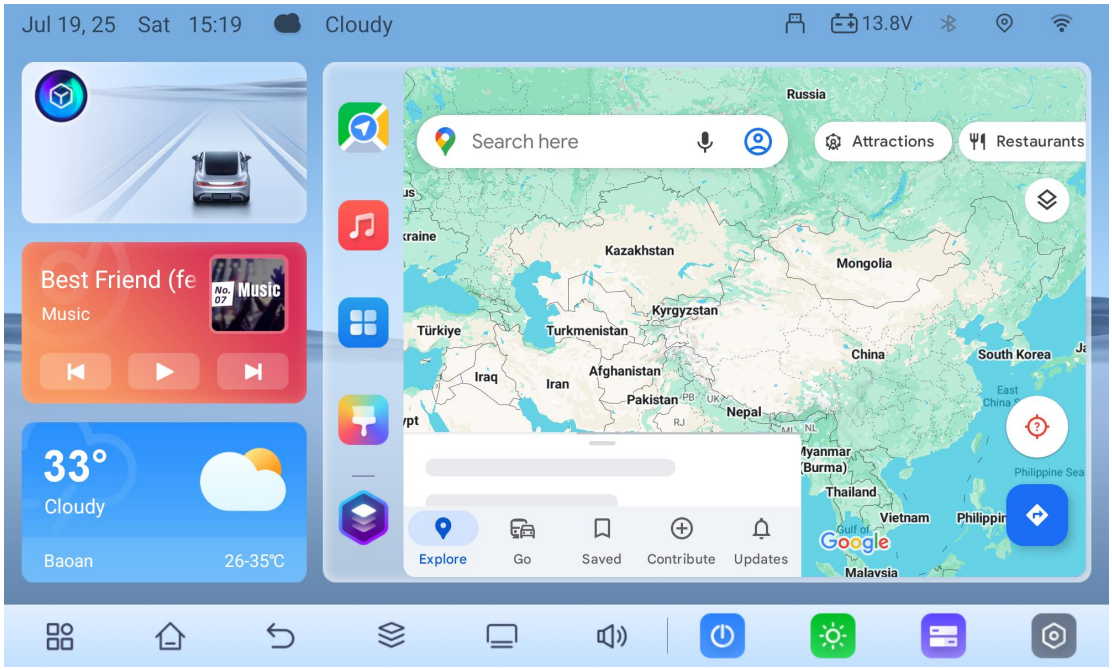
The TS105 platform is a newly developed system platform by Toparea based on the Unisoc 7865 CPU chip. It integrates a variety of software and is a large-scale system. The following introduces some basic function operations of the major software integrated in this platform.

1.1 Purpose of Writing

This manual is written to guide users in understanding the functions of the TS105 platform, hoping that this manual can enable users to learn without a teacher during use. This manual introduces the operation methods of various application software integrated in the Toparea TS105 platform.

2. Function Introduction

2.1 [Main Interface]



2.1.0 The top row-status bar display area:

The displayed contents are:time, weather, USB, voltage, Blu etooth, positioning, WIFI

2.1.1 The bottom row-navigation bar button area:

The functions are: application, main interface, return, history, multi-function plug-in button, volume

2.1.2 The middle column-shortcut function application area:

The functions are:navigation, music, application, theme, one-screen three-display window button

2.1.3 The left column-plug-in area:

The integrated functions include: driving effects, media plug-ins, weather. The small icon in the upper left corner can switch the main interface style

2.1.4 The right area-window display area:

The window displays: bindable navigation, recorder, video, custom application

Main interface styles:

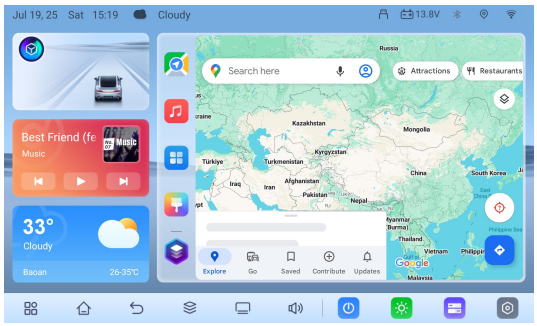
Swipe left and right on the main interface to switch the main interface style:



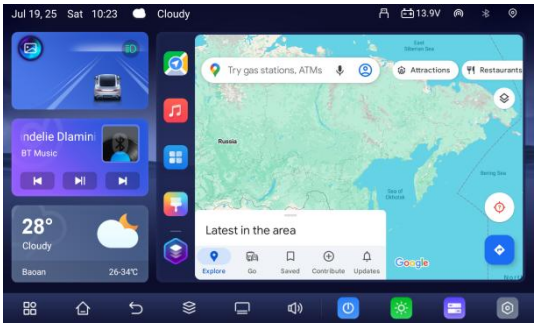
Instrument mode (daytime)



Instrument mode (night)



Window mode (daytime)



Window mode (night)

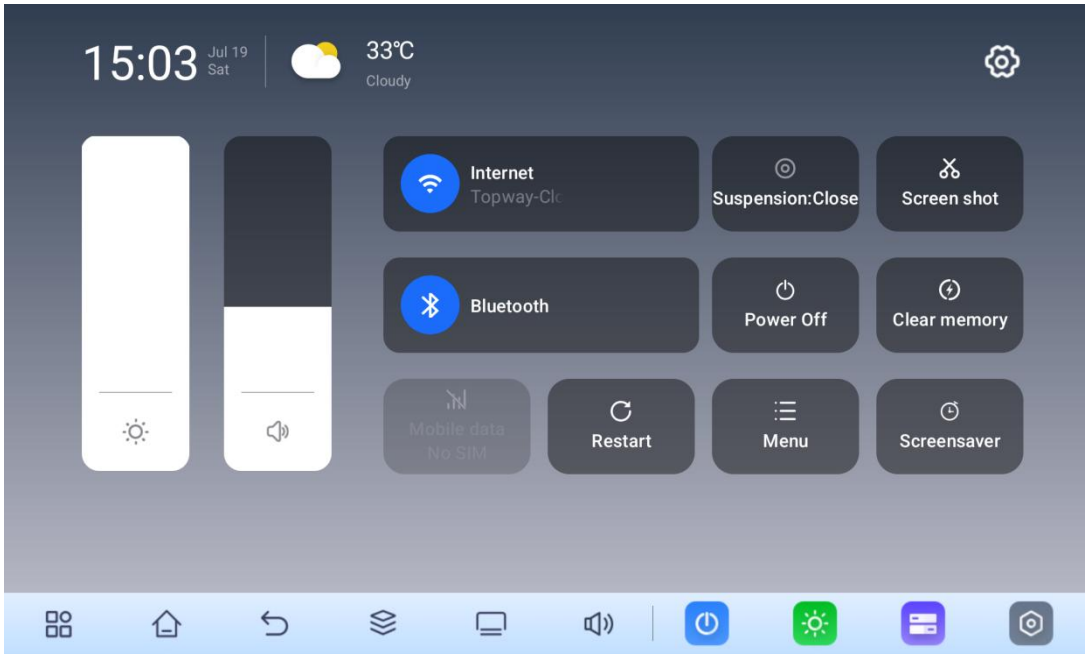


Wallpaper mode (daytime)



Wallpaper mode (night)

2.2 [Drop-down Menu]



Left area:

Brightness: sliding up and down can adjust the brightness

Volume: sliding up and down can adjust the volume

Middle area:

WIFI: short press to turn on/off, long press to enter the WIFI connection interface

Bluetooth: click to quickly enter the Bluetooth interface

Restart: click to restart the car machine

Mobile data: long press to enter the SIM card setting interface

Right area:

Vehicle settings: click to enter the vehicle settings interface

Floating: click to turn on the floating ball function

Screenshot: click to capture the current interface and save it to the file manager

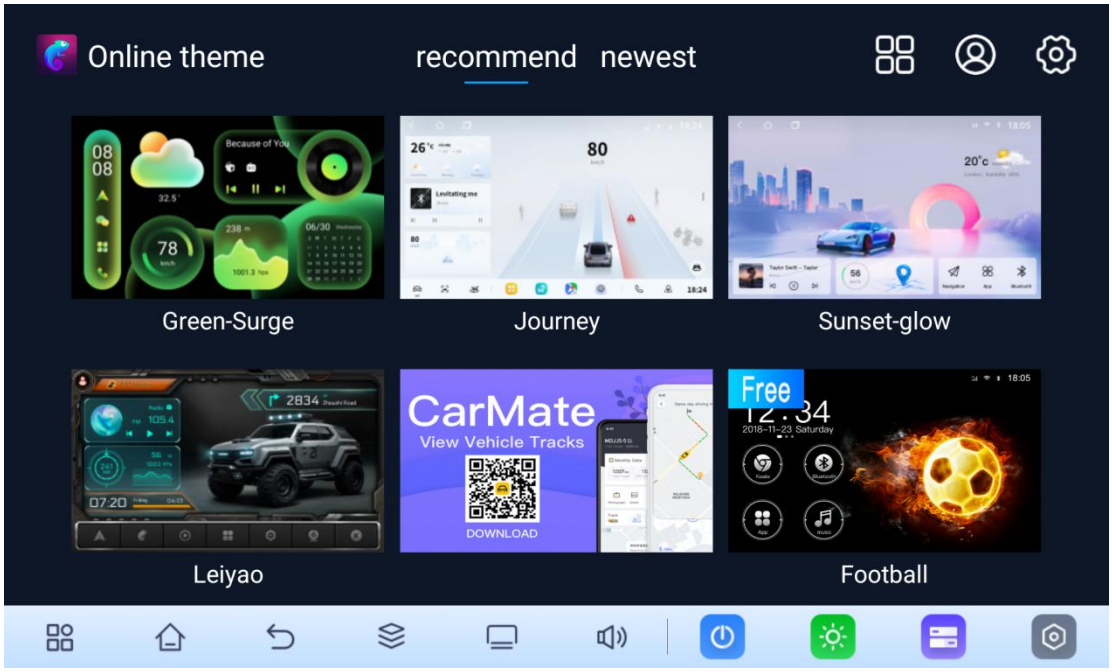
Shutdown: click to enter the shutdown state

Clear memory: click to close all running applications

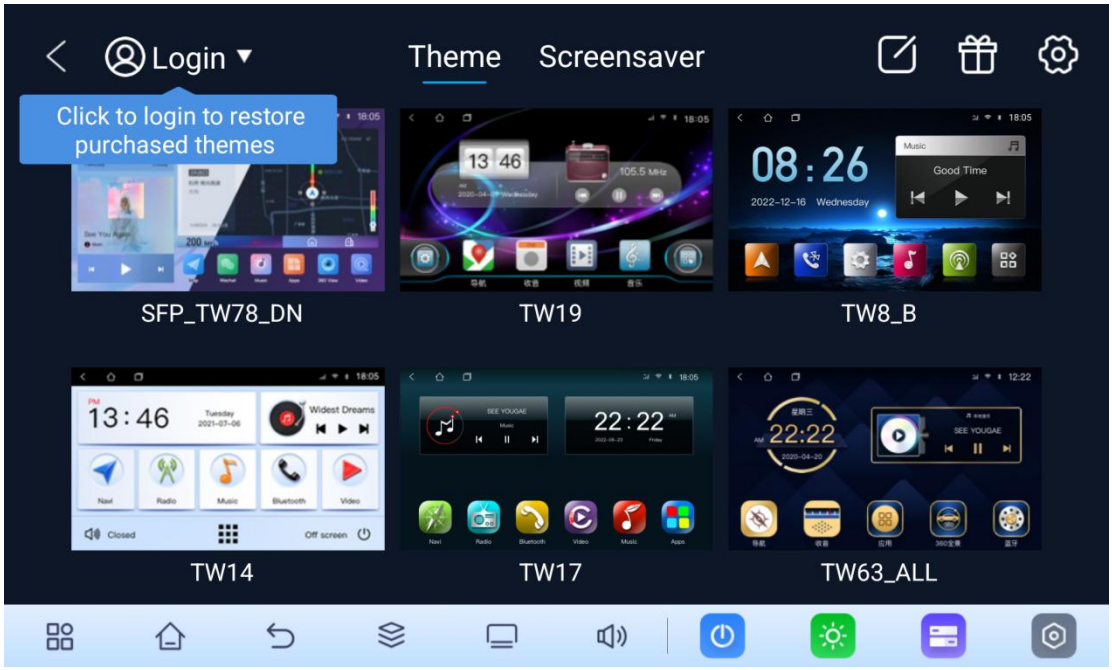
Menu: click to pop up a dialog box, including theme, manage applications, system settings

Screen saver: click to turn on the screen saver

2.3 [Theme]

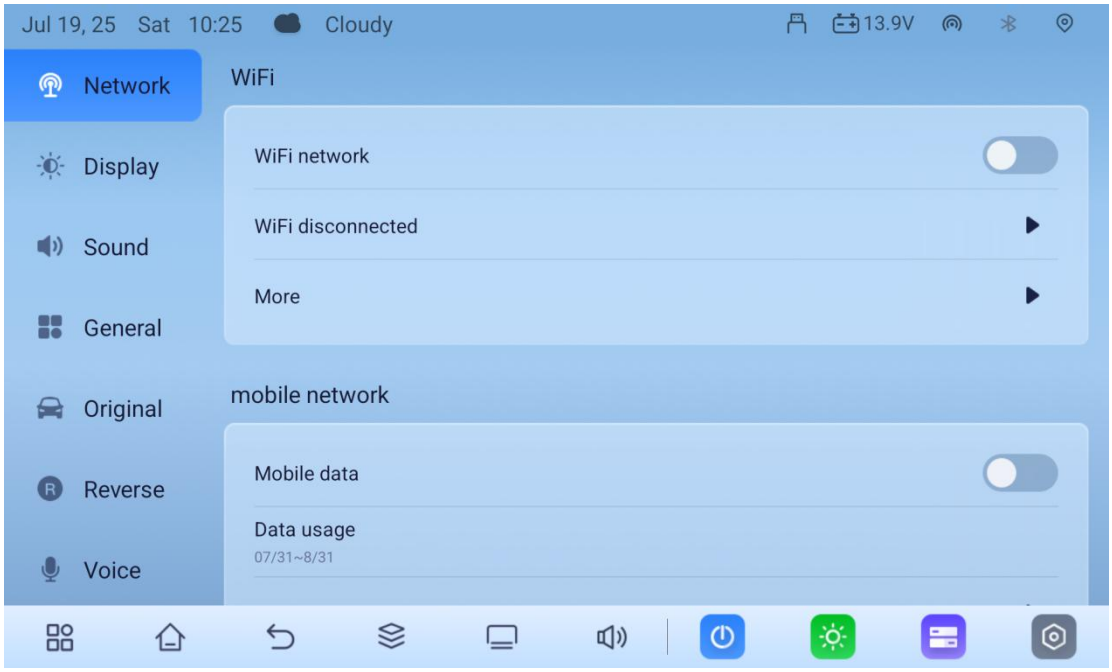


Theme selection: you can arbitrarily select the currently displayed main interface UI effect to replace the current main interface



My themes: display the existing themes of the current machine

2.4 [Vehicle Settings]



Network: wireless internet access, mobile network, more network settings

Display: brightness, font, background, wallpaper, etc.

Sound: key tone, priority, ringtone, sound setting, Mixing Settings, etc.

General: navigation bar, sleep failure, panel light, navigation application, recorder, etc.

Original car: display settings of external temperature, air conditioning, door, etc.

Reverse: mirroring, radar, trajectory line, scale line, camera standard, reverse volume, etc.

Voice: mode selection, voice software selection

Personal: including account, language selection, input method

setting, mobile phone interconnection application selection

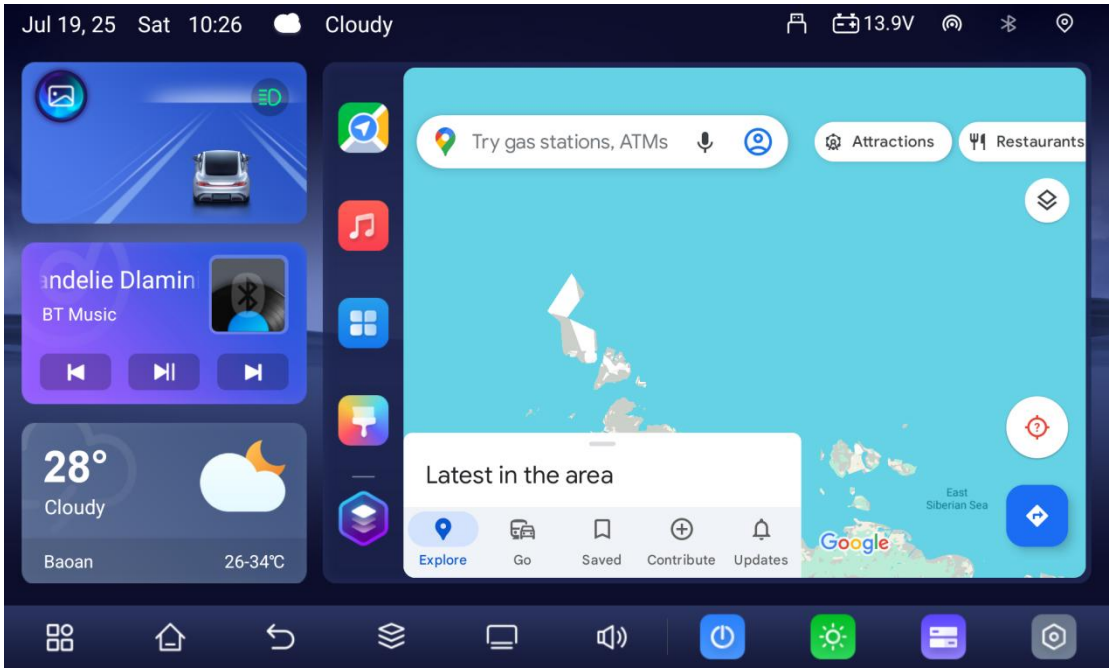
System: MCU upgrade, system upgrade, developer options, restore factory settings, etc.

Factory: enter the factory settings by inputting a special password

More: enter the original Android system settings interface

About: including platform information, hardware information, storage information, system information

2.5 [One Screen with Three Displays]



The main interface of one screen with three displays is as above. You can choose the traditional main interface and the one-screen three-display interface according to personal preference. You can set whether to enable the one-screen three-display function in the factory.

Map window: display area of the one-screen three-display window

Window button : short press to open the window application to full screen, long press to pop up the window application selection.

Window customization: you can select third-party APPs to bind and display in the window position, such as youtube, iQIYI, 360, etc.

2.6 [Bluetooth]



Bluetooth connection operation steps: turn on the mobile phone Bluetooth-click the pairing button below-search button-select the paired device name (such as CarKit_blink above)-the mobile phone pops up a Bluetooth pairing request and click pairing-a connection icon appears behind the device name, indicating that the connection is successful

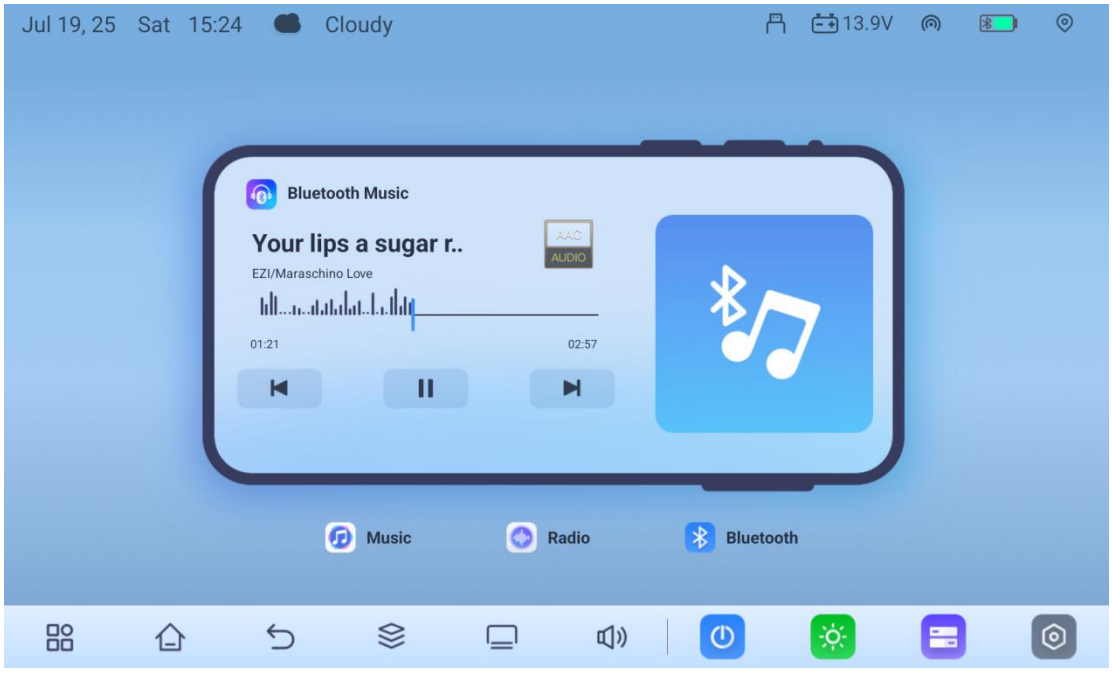
Pairing records: mobile phone record list

Search: search for mobile phone devices

Disconnect: disconnect the mobile phone connection

Delete pairing records: delete records

2.6.1 [Bluetooth Music]



Click the Bluetooth music icon  to open the Bluetooth music interface, as shown above:

The interface can display the Bluetooth song name, singer name, and progress bar

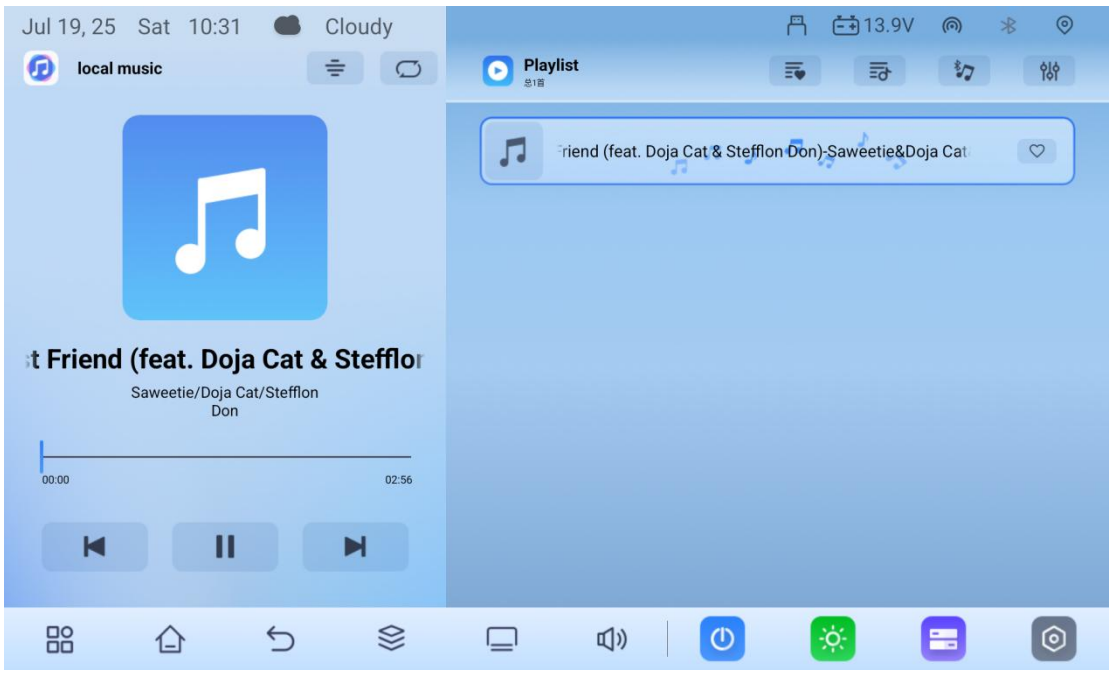
Previous song : switch to the previous song

Pause/Play : can pause playing the song

Next song : switch to the next song

The three icons at the bottom function as: switch to local music, radio, Bluetooth interface respectively

2.7 [Music]



The playback interface is as above. Click to expand the playback devices, corresponding to the playlist, USB, local storage, my favorites, and SD card respectively

Playback mode: including single loop, list loop, random play

Spectrum area: spectrum or lyric display area

My favorites: list of favorite songs

Playback directory: song directory

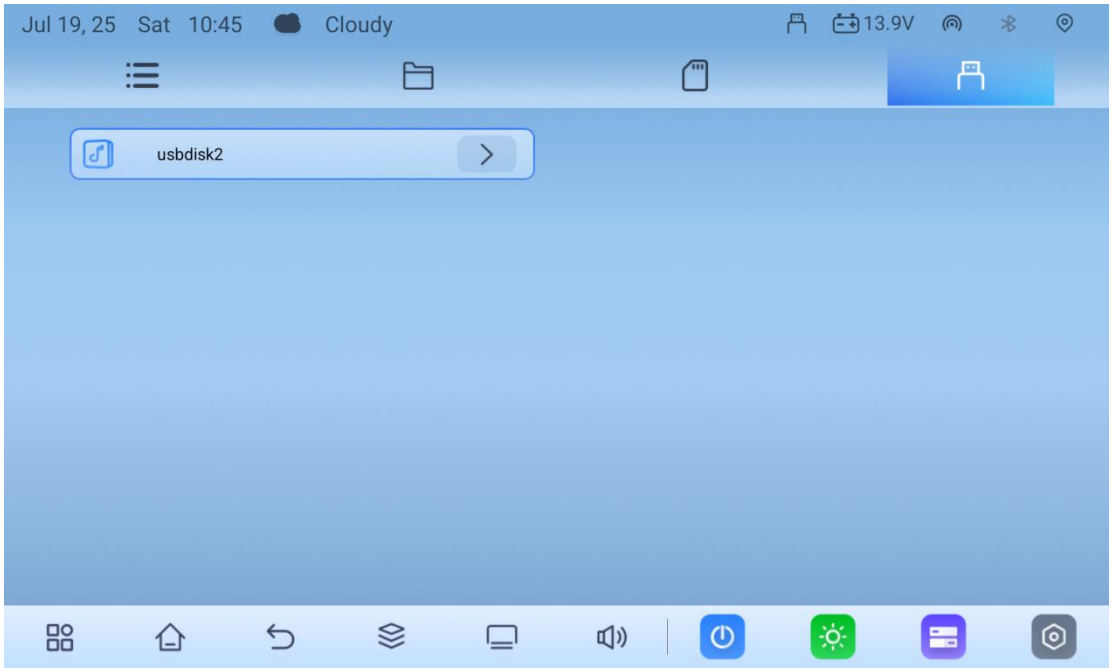
Previous song: switch to the previous song

Pause: pause playing the song

Next song: switch to the previous song

Equalizer: jump to the equalizer adjustment interface

2.8 [Video]



Playlist: display the current playlist

USB device: videos in the USB device

Local storage: videos stored locally

SD card: videos in the SD card

Previous song: switch to the previous song

Pause: pause playing the song

Next song: switch to the previous song

Equalizer: jump to the equalizer adjustment interface

Video settings: video floating window, brake settings

2.9 [Radio]



Low-frequency step: step back to low frequency

High-frequency step: step forward to high frequency

Middle area: swipe left to turn pages to browse the saved radio stations (p1-p18), and can display RDS radio station icons at the same time

Near-far range: switch to search for radio stations

Previous song: switch to the previous radio station

BAND: switch between AM (medium wave) radio mode and FM (frequency modulation) mode, default is FM

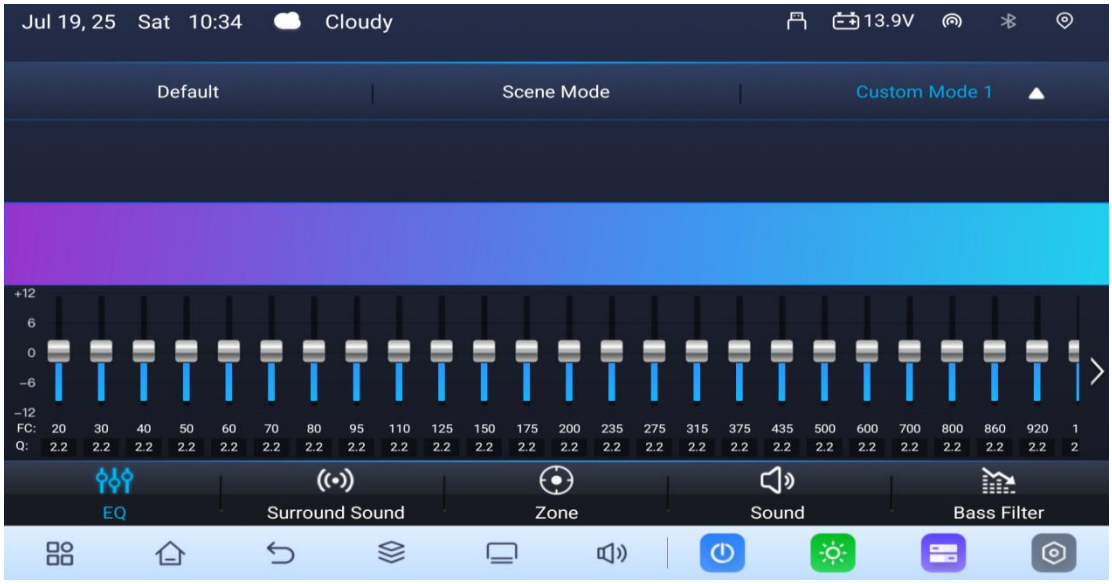
Next song: switch to the next radio station

Equalizer: enter the DSP interface

Settings: channel selection (stereo/mono)

Wallpaper switch: can switch to the user's favorite wallpaper

3.0 [DSP]



Equalizer: eight sound effect types for selection + custom. Compensate and modify various sound sources, sound fields, or speaker effects by adjusting electrical signals of different frequencies

Surround sound: six surround position modes, setting different positions, the focus of the surround effect is different

Bass boost: adjust the bass effect of different frequencies, the range is 0-12 (enhancement level)

Sound field: can adjust the volume of different areas in the car. Move the orange dot to adjust the volume and bass gain for the seat area you want to correct

Bass filter: closed by default, the range is 0-250Hz, the more frequencies, the greater the bass filtering effect. Can adjust the front/rear speaker effects

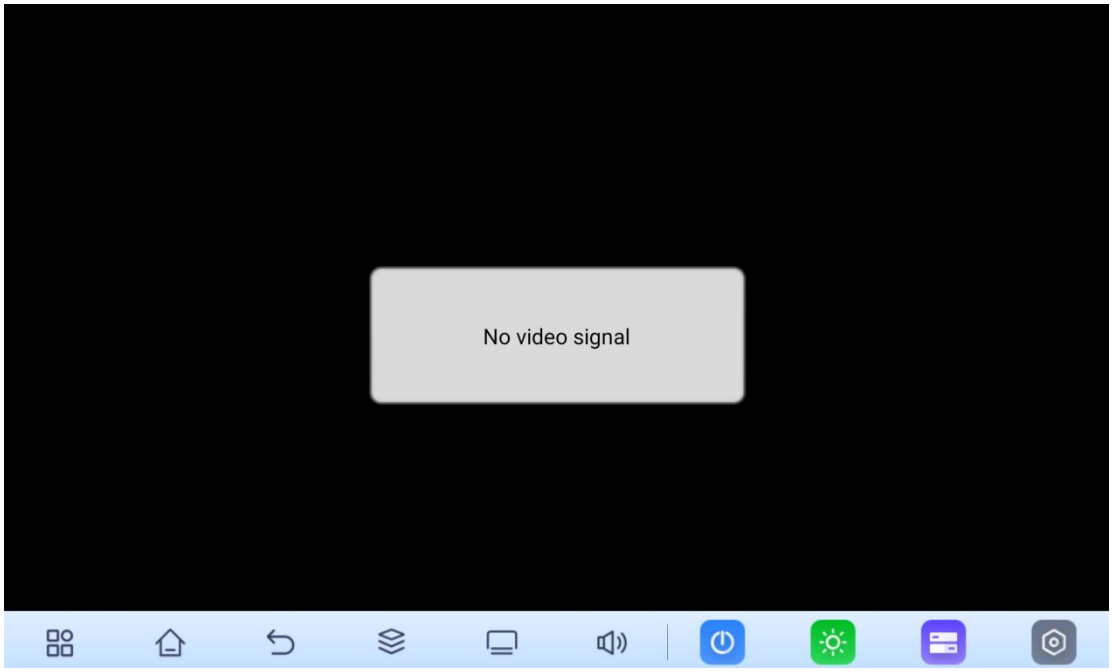
3.1 [AUX]



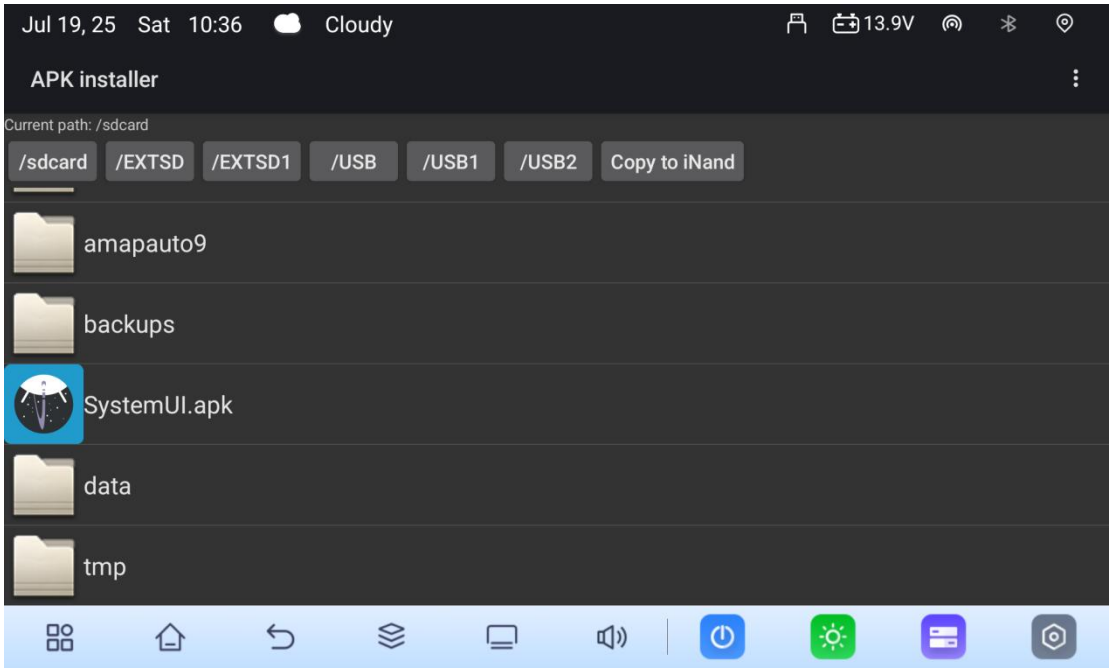
Access the signal to display the video screen

PS: The original car's right view is connected to the AUX channel

When there is no video input, the interface displays: no video signal, as shown in the figure below



3.2 [APK Installer]



APK Installer is an APP specially used for application installation, supporting multiple device types, USB, SD card, etc.

Installation example:

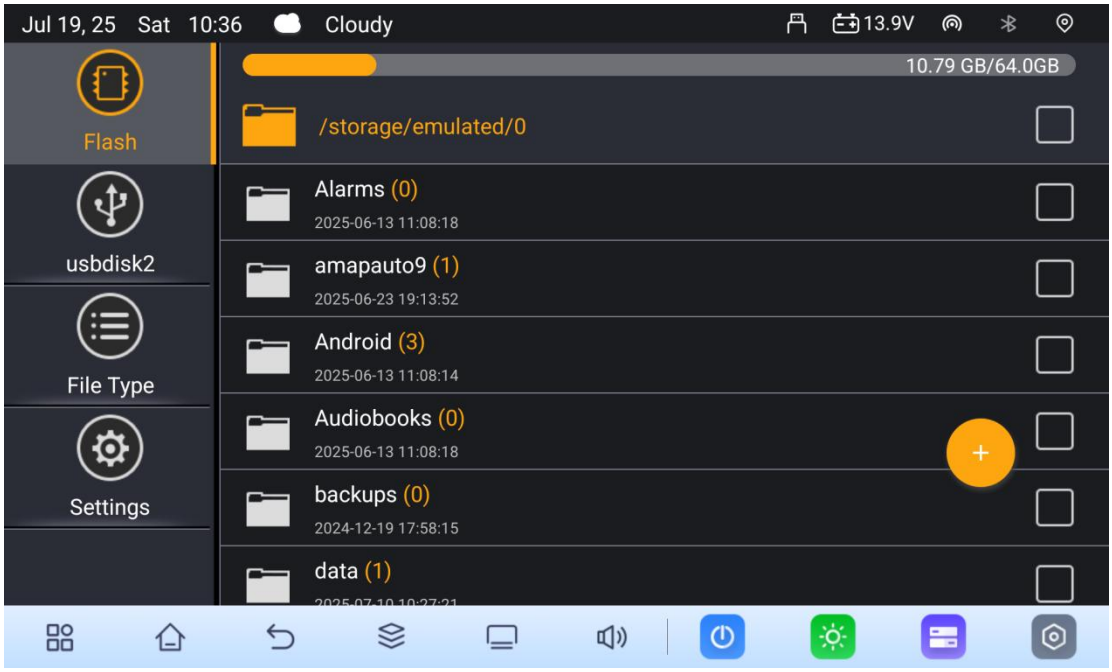
1. Insert a USB flash drive with the installed application into the car machine

2. Open (APK Installer)

3. Select the directory (USB0/USB1/USB2) to switch the USB port

4. Find the application and click Install

3.3 [File Manager]



File management operation steps:

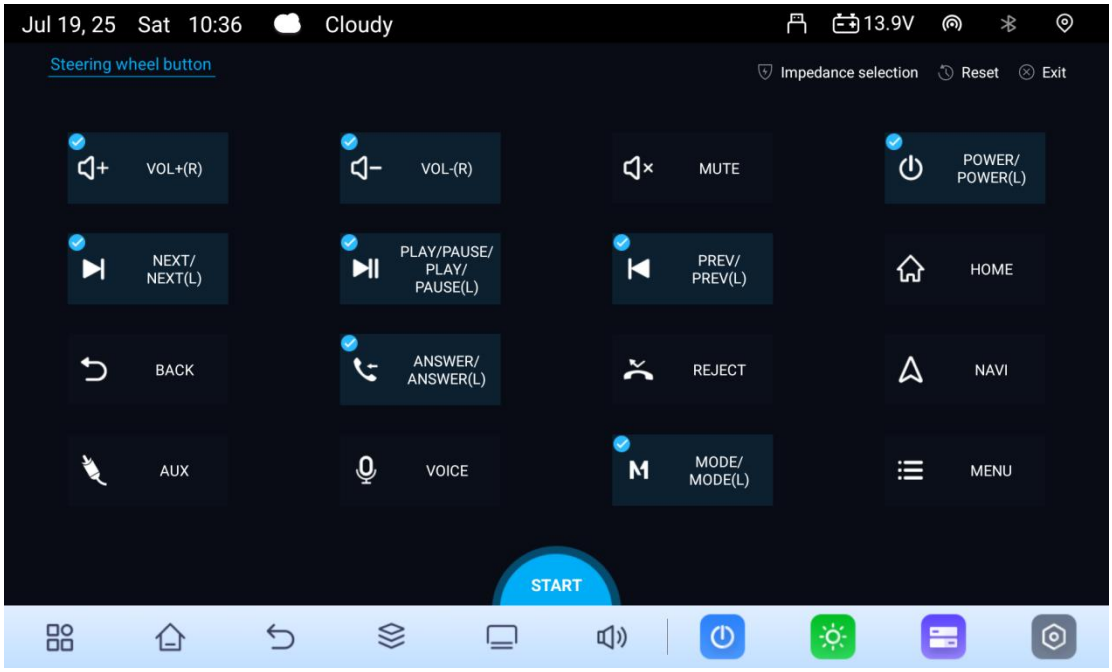
1. Check the files to be managed

2. The management options pop up at the bottom as shown in the figure below

3. If copying or cutting, you can perform the paste operation in other folders

4. When no files are checked, you can click the + at the bottom right to create a new file or folder

3.4 [Steering Wheel Buttons]



Learning steps:

Click the application menu to enter the steering wheel interface

1.Click [Start]

2.Select the button to be learned, such as "Volume +"

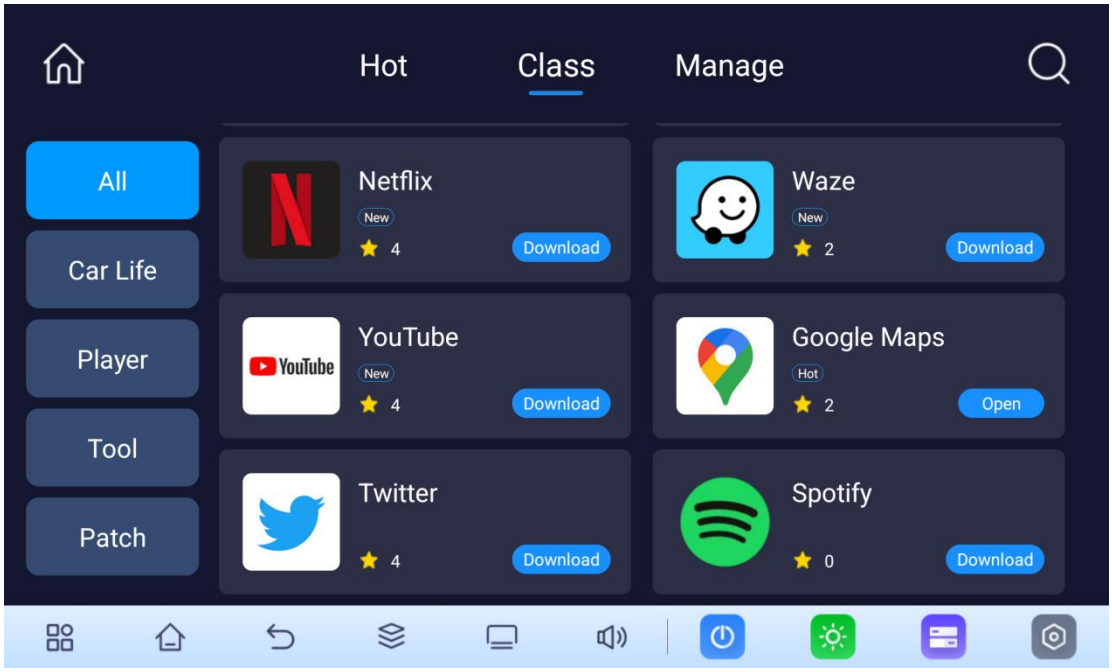
3.Press the corresponding physical button on the steering wheel, and the button will display blue highlighting after learning

4.Click [End]

To clear the learning records, first click [Start] and then click [Reset]

During learning, you can choose high or low impedance as needed

3.5 [Car Must-install Market]



You can download applications according to current popular, download rankings, and special recommendations

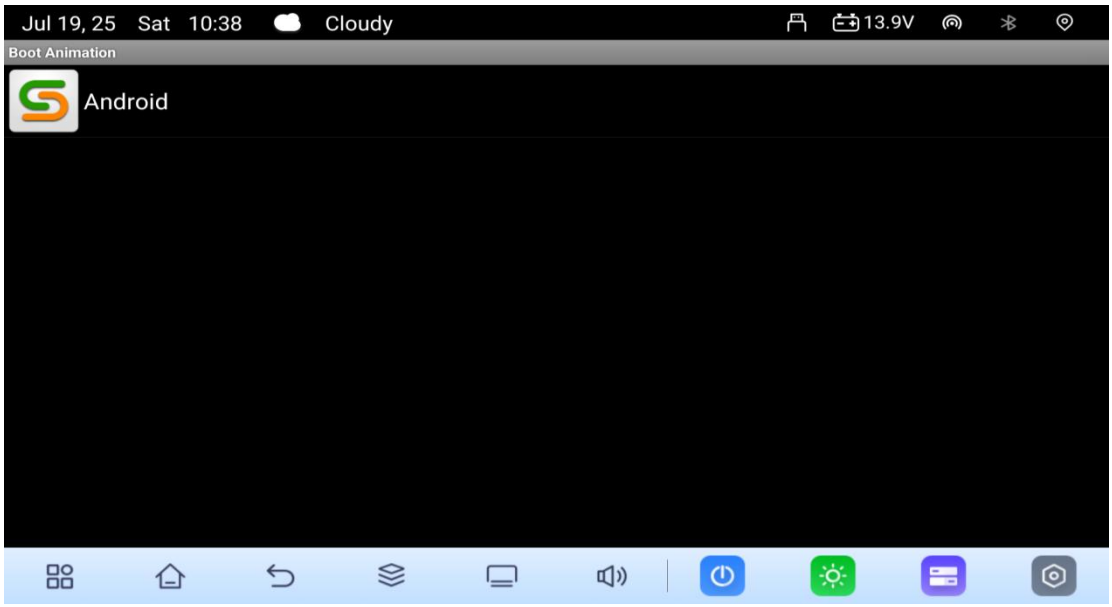
Search: can quickly find the one you want to download

Can download common APPs

Home key

The management interface is as above, which can manage applications including update, uninstall, clear cache, etc.

3.6 [Boot Animation]



Boot animation operation steps:

1. Insert a USB flash drive with MP4 format animation copied (stored in the root directory), and click the boot animation application

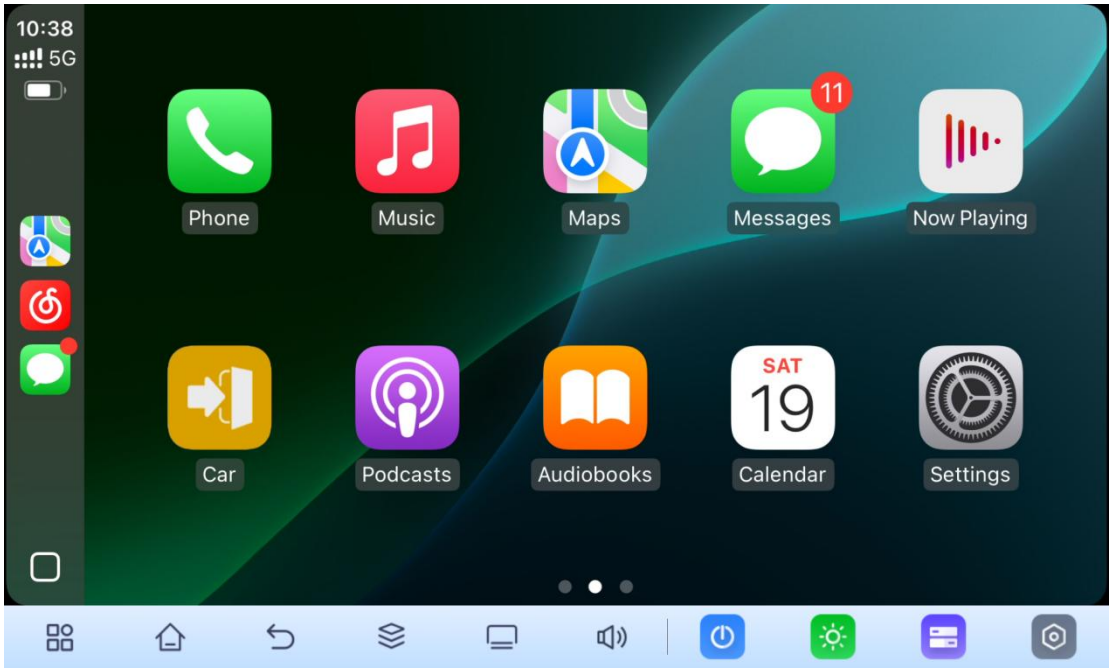
2. Pull down the status bar, click the menu, and the page pops up "Import from external storage", as shown in the figure below

3. After clicking "OK", enter the password Topway, and the prepared MP4 format animation will be read and displayed in the list below

4. Finally, click the selected boot animation, then click OK, and the boot animation setting is completed

ps: The imported boot animation formats are MP4 and zip. The boot animation will play the sound and image following the imported animation, and the playing time is ten seconds

3.7 [Mobile Phone Interconnection]



Tlink5 supports wireless carplay + wireless/wired Android Auto

One、Wireless carplay connection steps:

1.Confirm that the mobile phone is connected to the car machine via Bluetooth

2.Open TLink5, the car machine automatically detects the connection and displays "Connecting"

3.The mobile phone pops up a confirmation "Use carplay car"

4.The successful connection presents the right interface

Two.Wired Android Auto connection steps:

1.Open TLink5

2.Connect the mobile phone and the car machine with a USB cable

3.TLink5 will automatically detect and connect

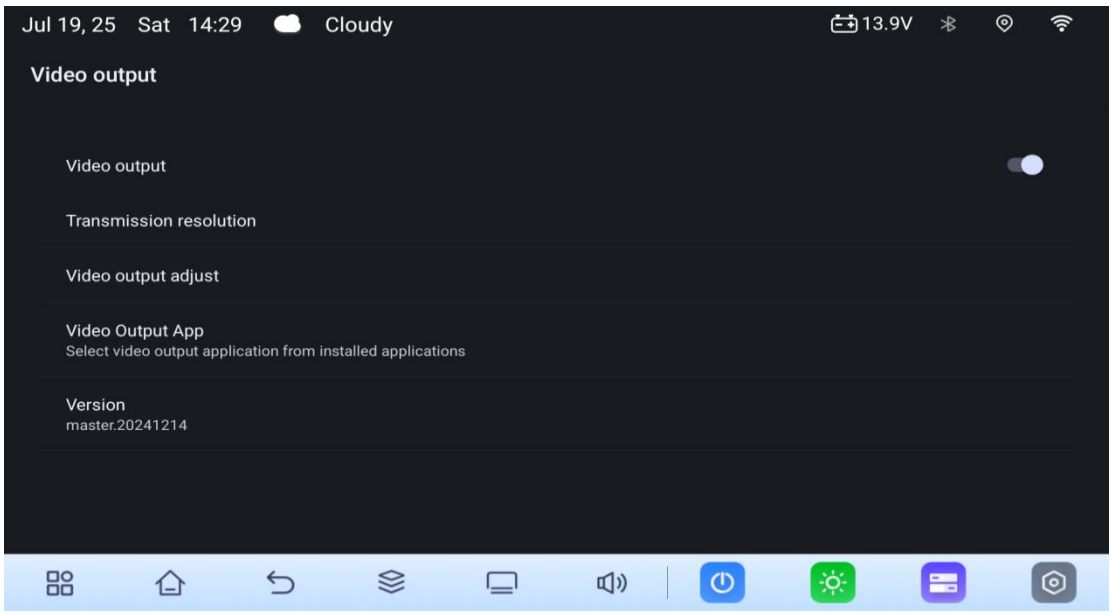
Three.Wireless Android Auto connection steps:

1.Turn on Bluetooth and search for devices;

2.Select the car machine's Bluetooth for pairing and connection;

3.After successful connection, the car machine displays the application screen (at this time, the mobile phone's WiFi will automatically connect to the car machine's hotspot)

3.8 [Dual Screen Different Display]



The platform supports type-c output and type-c to HDMI output. This function can achieve different display effects on two screens.

Operation steps:

1.Open settings-general-video output settings, turn on video output

2.Connect the video output cable

3.Select the APP you want to play the video on the car machine, such as the third-party app youtobe

4.When the car machine and the video output display are synchronized, click the home button on the car machine to trigger the function of different displays on the two screens, then the car machine will return to the home page, while the video output will continue to play

3.9 [360 Panoramic Guard]



1. 3D surround on the main interface: the front view is displayed in full screen, and the perspective can be rotated by manual click. When the car starts and is powered on, the car machine automatically switches to 360 panoramic mode

2. Front view: can switch between original view, top view, and corrected view

3. Rear view: can switch between original view, top view, and corrected view

4. Left view: display the left camera image

5. Right view: display the right camera image

6. Narrow road mode: can switch between front narrow road view and complete narrow road view

4.0 [Day and Night Mode]

This mode will automatically switch following the car's headlights. If it is daytime and the car's headlights are off, the system defaults to daytime mode; otherwise, if it is night and the car's headlights are on, the system will automatically switch to night mode



Daytime



Night