



**Model: MP-202SMY-MEXICO**

**Product name: ICE (In-Car Entertainment)**

**Vehicle model name: AVEO**

**Manufacturer's name and address:**

**SAIC-GM-Wuling (SGMW)**

**No. 18 Hexi Road, Liunan District, Liuzhou City, Guangxi, China**

**Thanks for your support, and we will do better!**

**For better use of this product, please read this Manual carefully.**

**Products are subject to change for technical improvements without notice! Please note that the changed contents will be directly incorporated into the new version of the Manual.**

**Note: Thank you for using this product. This Manual is for reference only. Please refer to the actual multimedia entertainment system.**

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

#### FCC Statement

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.

FCC RF Radiation Exposure Statement Caution: To maintain compliance with the FCC's RF exposure guidelines, place the product at least 20cm from nearby persons.

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

The device must not be co-located or operating in conjunction with any other antenna or transmitter.

- Read this Manual carefully before installing and using the machine. It is recommended that the machine be installed by a vehicle audio technician.
- This machine is suitable for on-board 12V power supply system (with grounding wire). Do not install this machine directly on 24V trucks or other high-powered vehicles.
- Do not change the power supply fuse or use improper fuses without the guidance of professionals, as this may damage the machine and cause a fire.
- The display of this product is of a precision electronic structure. Do not hit the display screen hard with sharp objects to avoid damage.
- To avoid traffic violations and accidents, the driver shall not watch videos, pictures, text programs and operate the machine while driving.
- To ensure safety and normal use of this product, please have it installed by a professional of the seller. Do not disassemble and repair the machine by yourself to avoid damage or other accidents. For details, consult your local professional vehicle audio store.
- Do not expose the machine to humid environment and water to avoid electric shock, damage and fire caused by short circuit.

- To prevent short circuit, shut down the vehicle and disconnect the vehicle battery before installation.

#### Frequency Band Information

Band	Frequency Range	Output power
Bluetooth	2402 MHz - 2480 MHz	7.46 dBm Max E.I.R.P
FM	87.0 MHz - 108.0 MHz	/
AM	530 kHz – 1710 kHz	/
GPS(L1)	1559 MHz to 1610 MHz	/

**Operating Temperature : -30°C to 80°C**



# Functional Operation

## 1. Functions of Panel Buttons


- 1) Press briefly the front defrosting button on the panel to turn on the front defrosting function of the A/C.
- 2) Press briefly the rear defrosting button on the panel to turn on the rear defrosting function and the rearview mirror heating function.
- 3) Press briefly the power button on the panel to enter the homepage; press and hold the power supply button on the panel for 2s to enter the standby clock interface; press and hold the power button on the panel for 10s to restart the multimedia entertainment system.
- 5) Press briefly the panel button volume "-" to decrease the volume; press and hold the panel button volume "-" to continuously decrease the volume.
- 6) Press briefly the panel button volume "+" to increase the volume; press and hold the panel button volume "+" to continuously increase the volume.



## 2. Steering Wheel Controls

[Voice]: If the mobile phone is successfully connected, press briefly the [Voice] button to enter the connected voice interface, and press and hold it to enter the Carplay voice recognition interface (pressing and holding is invalid for Android Auto connection).

[SRC]: Press briefly the [SRC] button, and the multimedia system will switch between effective sound sources. Press and holding is invalid.

: Press briefly to play the previous song for USB music and BT music, and to search radio stations of lower frequencies for FM/AM; Press and hold it to fast rewind for USB music, or step to lower frequencies for FM/AM. Release it to stop at the current frequency and play.

: Press briefly to play the next song for USB music and BT music, and to search radio

stations of higher frequencies for FM/AM;

Press and hold it to fast forward for USB music, or step to higher frequencies for FM/AM. Release it to stop at the current frequency and play.

[Volume +]: Press briefly [Volume +] to increase the volume by +1; press and hold the button to increase the volume to the maximum.

[Volume-]: Press briefly [Volume -] to decrease the volume by -1; press and hold the button to decrease the volume to the minimum.

[Answer]: When Bluetooth is connected and a call comes in, press briefly this button to answer the call; when Bluetooth is not connected, press briefly this button to enter the Bluetooth settings page; pressing and holding is invalid.

[Hang up/Mute]: If Bluetooth is connected, press briefly this button to reject the incoming Bluetooth call or hang up a call in progress.

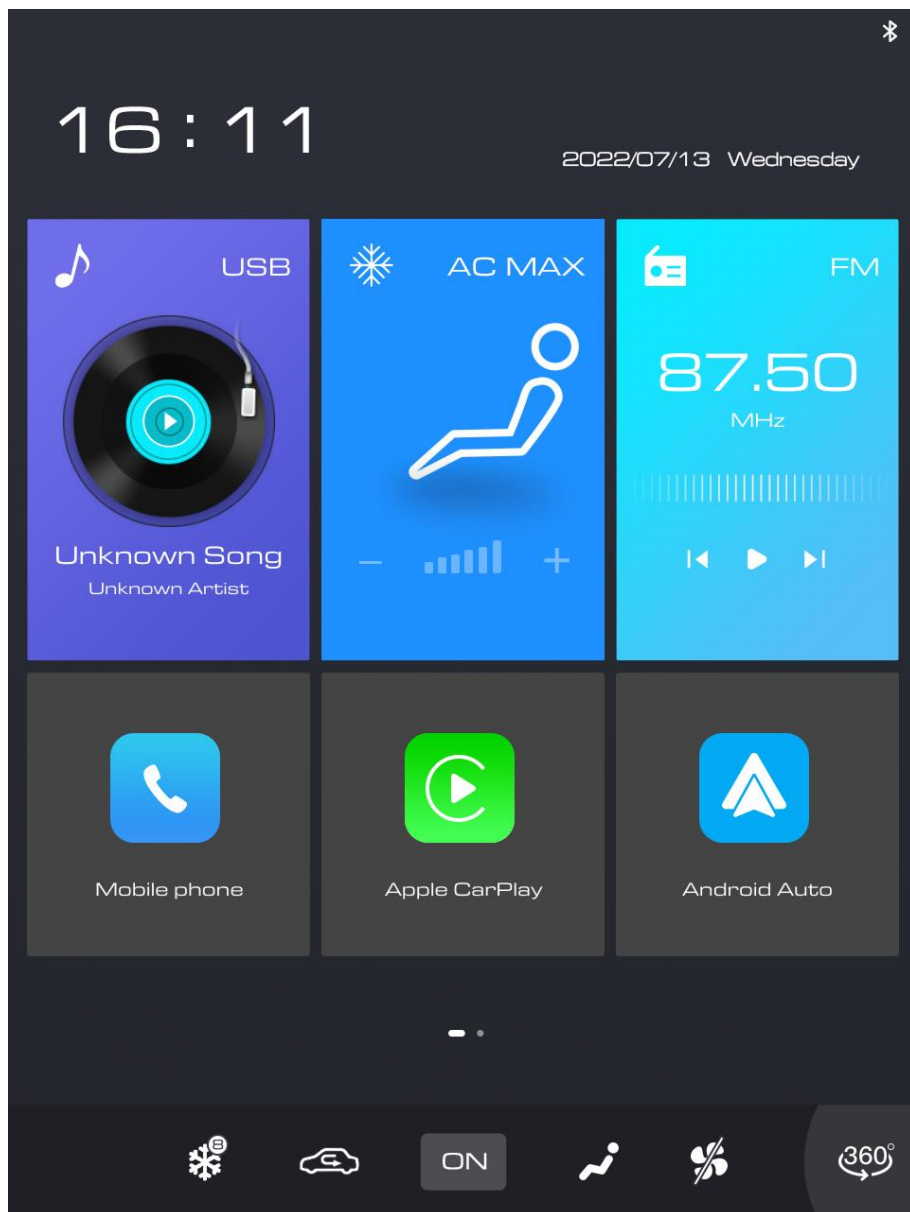
In other cases, press briefly the button to mute the multimedia; press briefly again to cancel mute; pressing and holding is invalid.



### 3. Startup and Shutdown

- 1) When the vehicle is in ACC, ON or ignition position, the multimedia entertainment system will display the startup LOGO, and the homepage will be entered after the startup animation.
- 2) When the vehicle is in OFF position, the multimedia entertainment system will be automatically turned off 3 minutes later.
- 3) With the vehicle in OFF position, press the power supply button or open or close the driver's door to immediately turn off the multimedia entertainment system.





## 4. Main Interface

1) After entering the home page, [Music], [A/C] and [Radio] can be selected in the shortcut menu for function.

2) Icons are arranged on two pages, which can be switched by sliding them left and right. The icons on the first page are call, Carplay and Android Auto in turn, and the icons on the second page are the A/C, user manual and settings in turn.

3) If the mobile phone is successfully connected, the voice icon will show in the lower left corner



of the lower status bar. Tap " " to enter the mobile phone interconnection voice recognition interface. If the mobile phone is not connected, the voice icon will not show in the lower left corner of the lower status bar.



4) Tap " " in the status bar below to enter the A/C control interface.



5) Tap " " in the status bar below to enter the A/C control interface.



6) Tap " " in the status bar below to turn off the A/C.



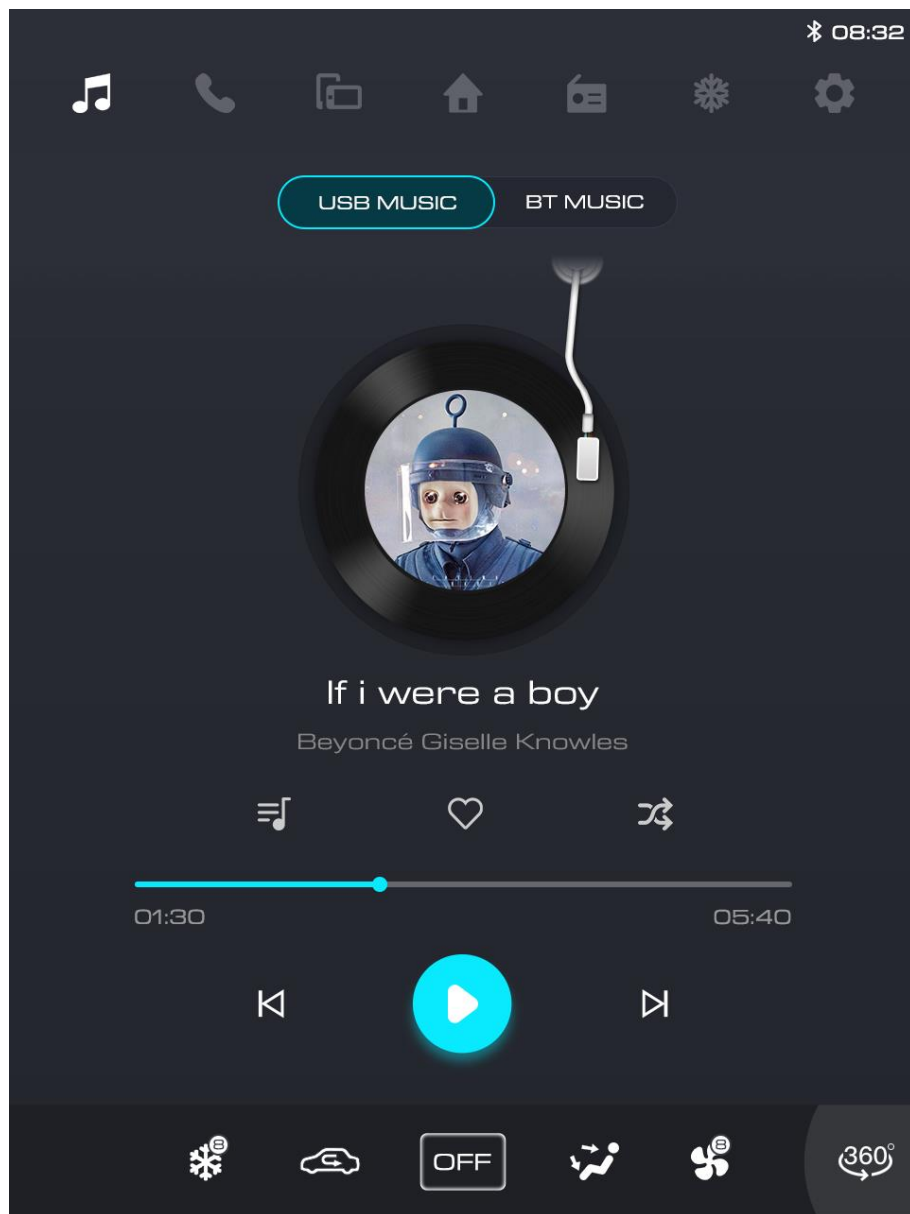
7) Tap " " in the status bar below to enter the A/C control interface.










8) Tap " " in the status bar below to enter the A/C control interface.



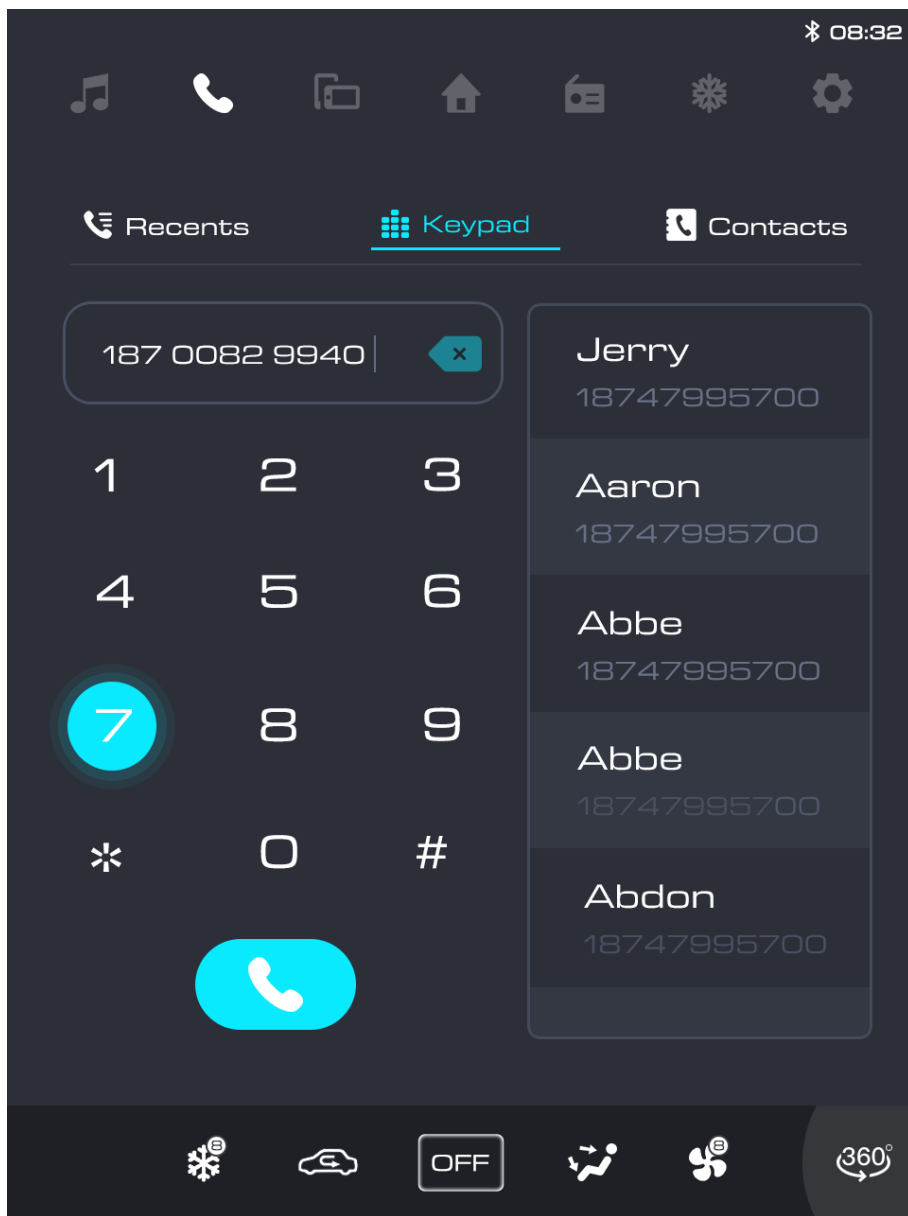
9) Tap " " in the status bar below to enter the 360 reversing interface.



## 5. Music


- 1) Tap the shortcut bar " " above to enter the music interface.
- 2) Tap " " to play the next song.
- 3) Tap " " to play the previous song.
- 4) Tap " " to open the music list.
- 5) Tap " " to add the current song to My Favorites list.
- 6) Tap " " to set the music loop mode. The switching sequence is list loop => random play => single loop.
- 7) Tap " " to play/pause music.
- 8) Supported audio format: MP3/AAC/WMA.
- 9) Tap the Bluetooth music button to enter the Bluetooth music play interface.

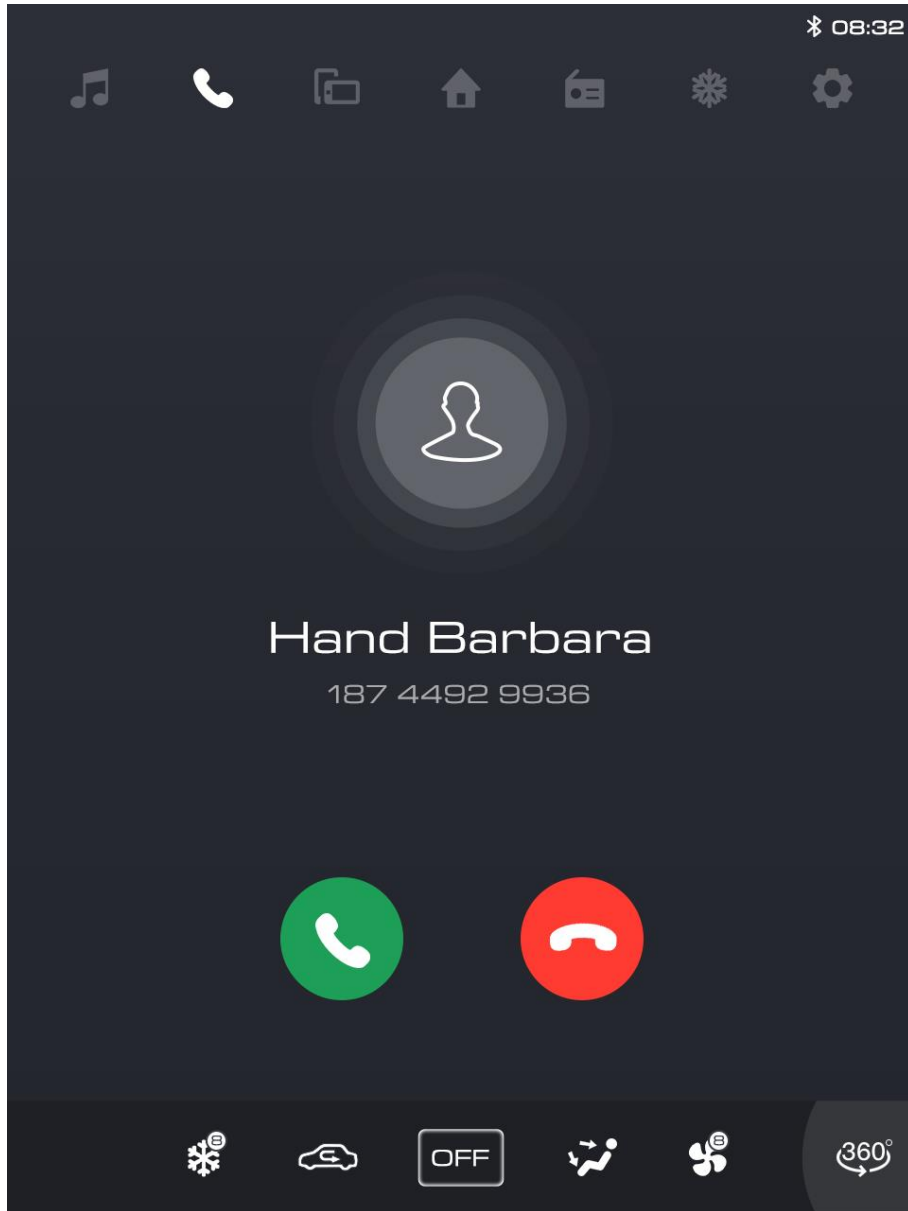
Note: Some audio files may be played without sound output due to different audio decoders.



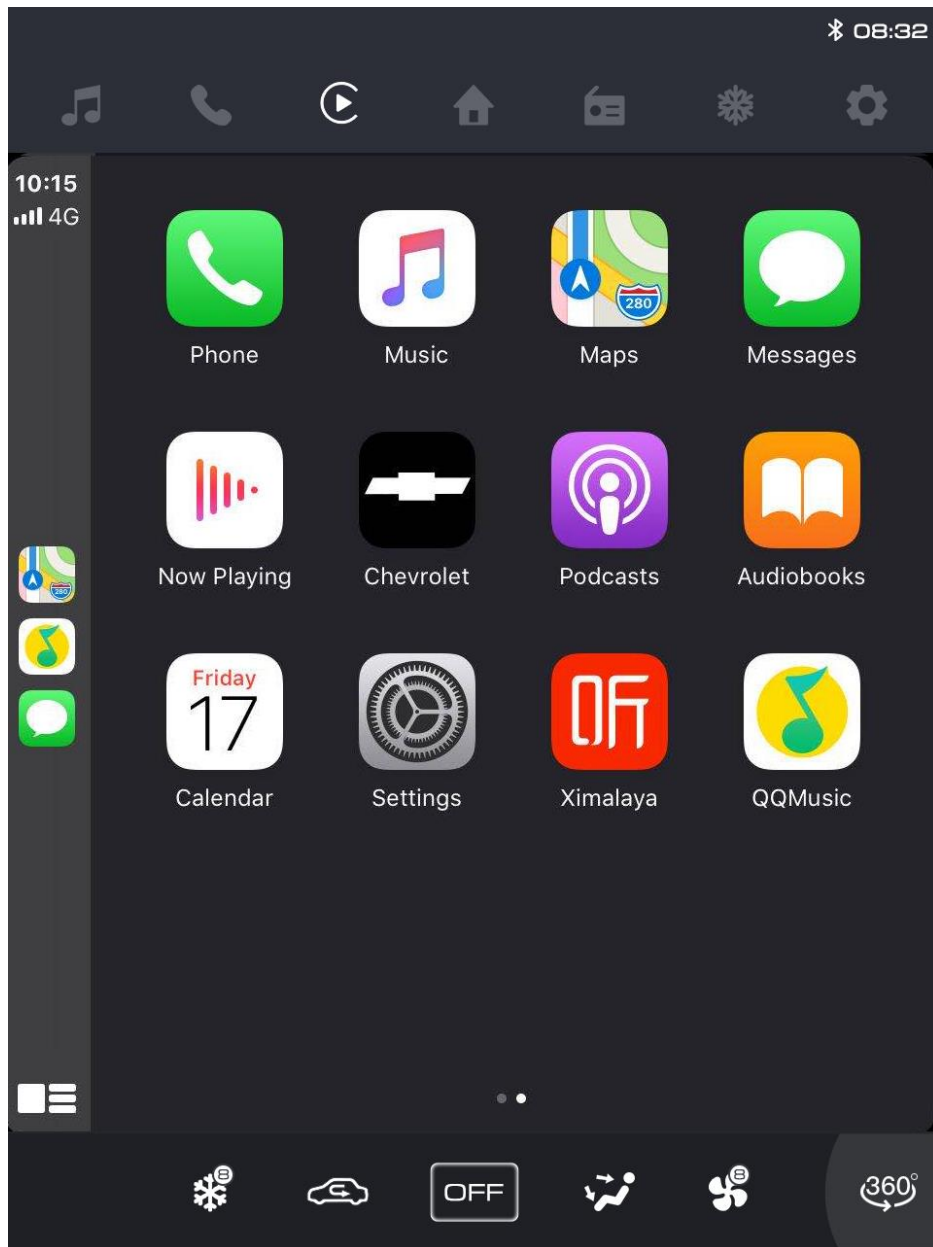
## 6. Call



- 1) Tap the shortcut bar "  " above to enter the Bluetooth call interface.
- 2) Tap "Call Records" to enter the call records page, where you can dial a call by selecting the call record.
- 3) Tap "Dial" to enter the dial page, where you can enter the number and make a call.
- 4) Tap "Address Book" to enter the address book page. If the address book is not synchronized, "None" is displayed.



When a Bluetooth call comes in, you can choose to answer or hang up the call.



## 7. Mobile Phone Interconnection

1) Mobile phone interconnection means that the mobile phone and the In-vehicle infotainment (IVI) are seamlessly connected via a USB cable, the contents displayed on the mobile phone screen are projected on the IVI screen, and mobile phone APPs can be controlled by touching the IVI screen.

2) Carplay and Android Auto focus on driving scenarios and provide general functions for navigation, music, talkback, phone, voice control, etc. in driving.

Note: It is recommended to use the original harness of the mobile phone manufacturer as the USB data cable for mobile phone interconnection. Otherwise, the mobile phone interconnection may fail or other abnormal situations may occur.

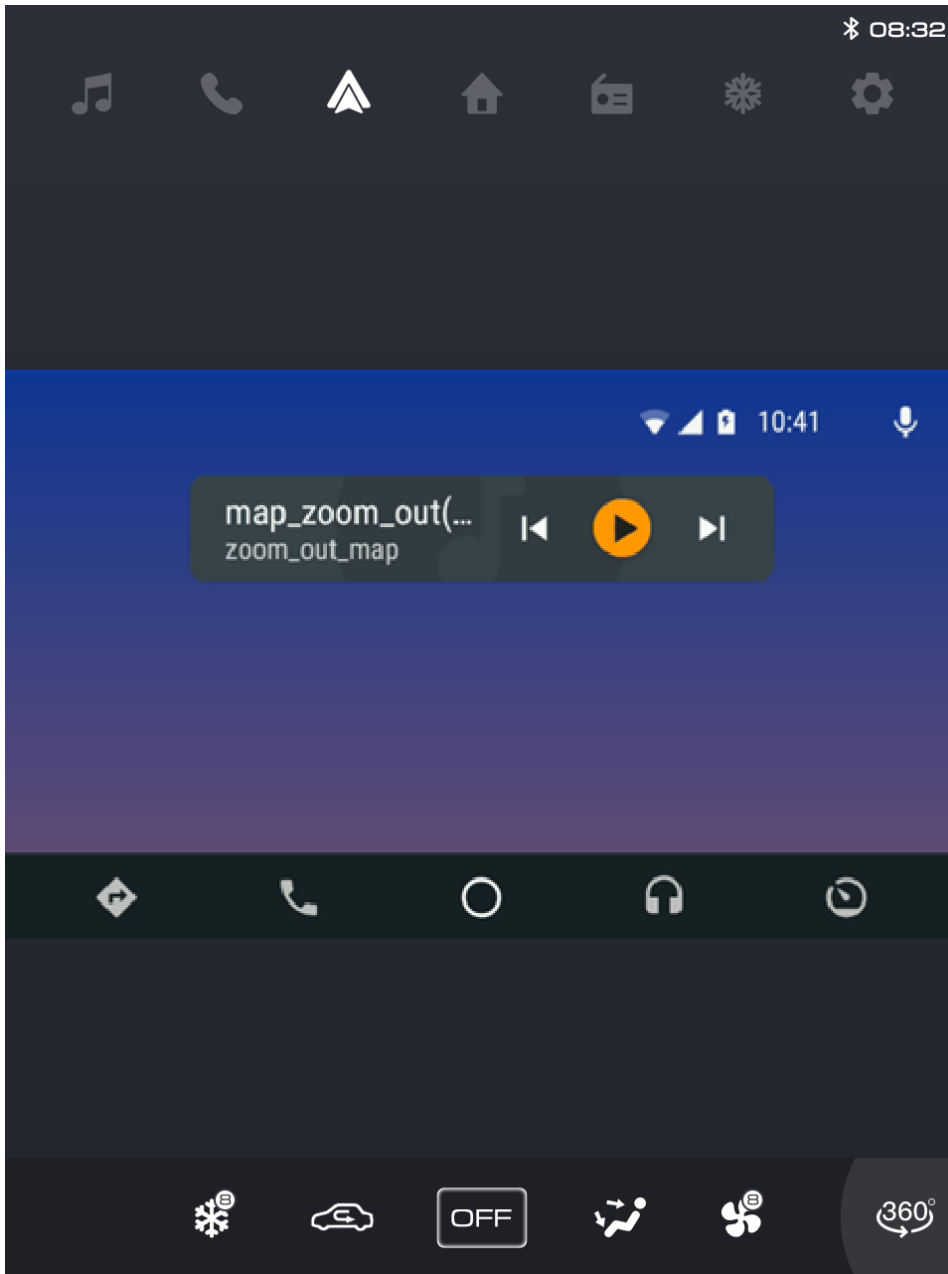
### The connection method is as follows:

- (1) Connect the mobile phone and the central control panel with a USB cable;
- (2) Use the USB data cable to connect the mobile phone and IVI

#### a. iPhone

After an iOS mobile phone is connected, the mobile phone will give a prompt "Trust this computer?".

Tap "Yes" to begin interconnection or "No" to quit.



b. Android phone

The mobile phone system pops up a window to prompt whether to connect

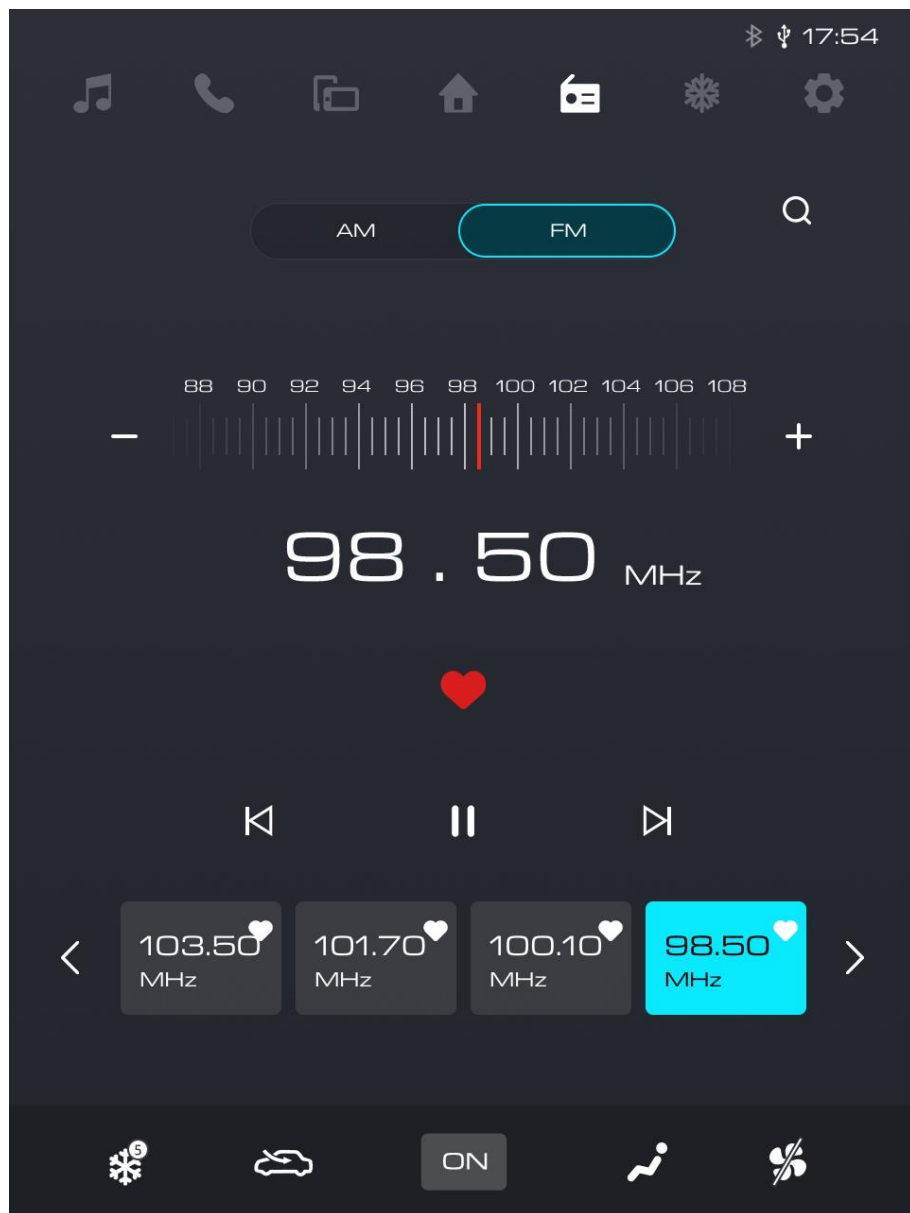
Tap “OK” to continue the connection.

Tap “Cancel” to quit. The above prompt will be shown when the APP is enabled next time.

Check "Used for this USB accessory by default", and no prompt will pop up later.





(4) Tap "Interconnect Now", and the mobile phone and the IVI will be successfully paired and the connection process continues. Tap "Cancel" to interrupt the interconnection, and the prompt will appear again next time.

(5) After the successful connection, the Android Auto icon on the IVI end of the Android mobile phone will be highlighted; the Carplay icon on the IVI end of the iPhone will be highlighted.









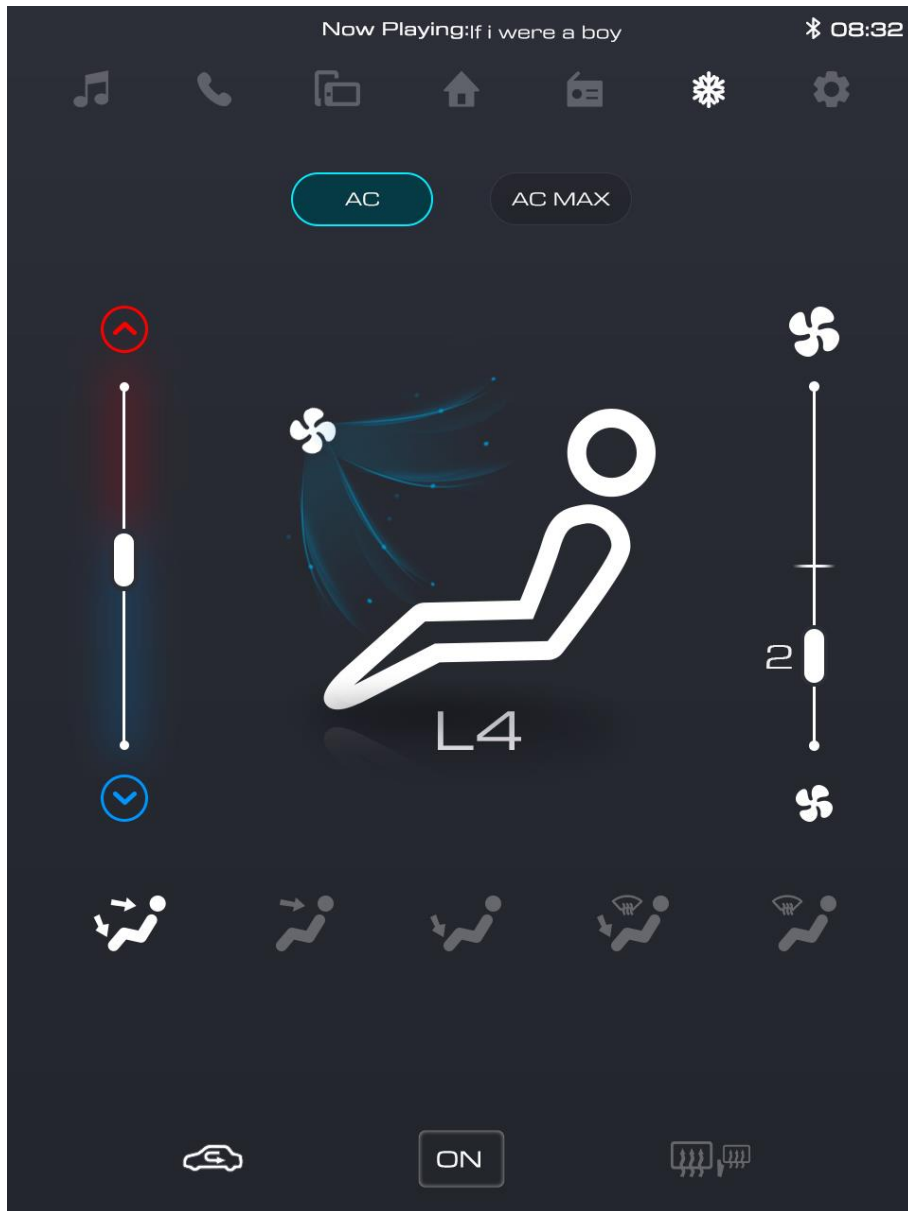
## 8. Radio

### FM/AM

- 1) Tap the shortcut bar " " above to enter the radio interface.
- 2) The radio pages can be switched between "AM", "FM" frequency bands.
- 3) Tap " ", and the radio interface will prompt "Searching channel, please wait...". The system will mute until the search is completed.
- 4) Tap " " to step towards higher frequencies, with FM step size of 100 KHz and AM step size of 9 KHz.
- 5) Tap " " to step towards lower frequencies, with FM step size of 100 KHz and AM step size of 9 KHz.






Note: The step size of FM/AM varies in different vehicle models.

- 6) Tap " ", and the radio will search downward (for higher frequencies).
- 7) Tap " ", and the radio will search upward (for lower frequencies).
- 8) Tap " " to add the current radio station to My Favorites list.
- 9) Tap " " to play/pause the radio.
- 10) Tap " " to slide the radio station/favorites list to the left.
- 11) Tap " " to slide the radio station/favorites list to the right.

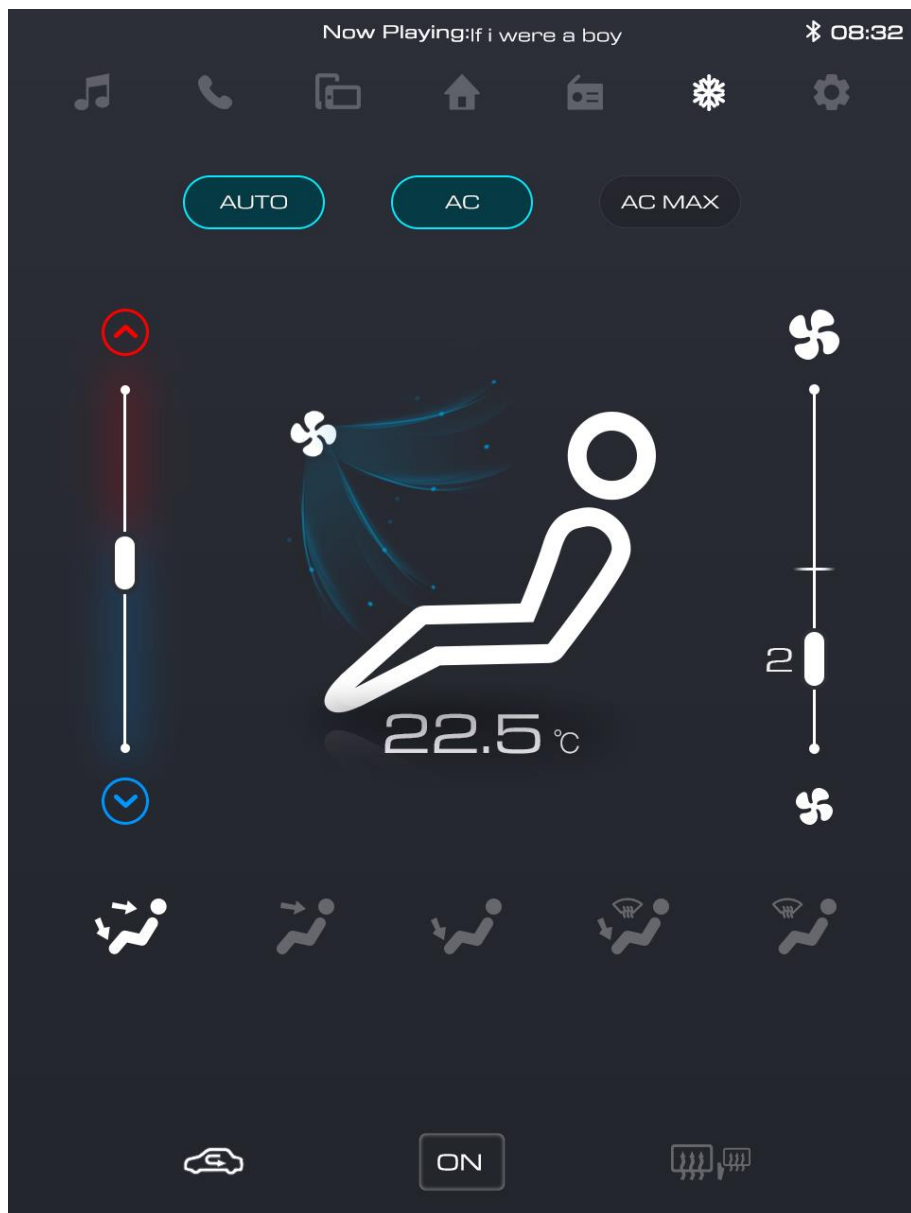


## 9. A/C

### Power A/C

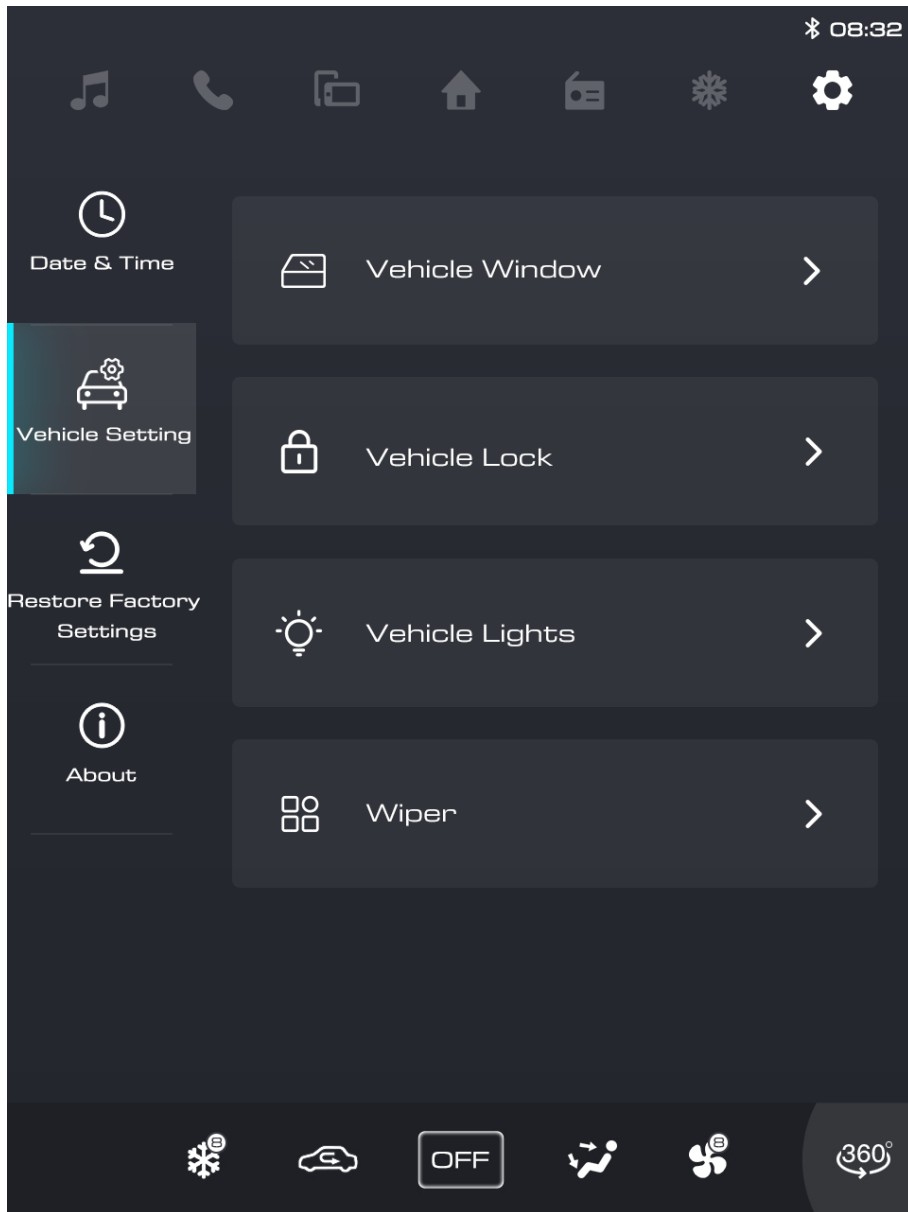
- 1) Some vehicle models are equipped with power A/C.
- 2) Tap the shortcut bar "  " above to enter the A/C control interface.
- 3) Tap [AC] to turn on the A/C compressor.
- 4) Tap [AC MAX] to turn on the maximum cooling state of the A/C.
- 5) Tap the [  ] / [  ] button or slide the white block to adjust the temperature level. There are 8 levels of temperatures in total, with the hottest being L8 and the coldest being L1.
- 6) Tap the [  ] / [  ] button or slide the white block to adjust the air volume level.
- 7) Modes include face and foot mode, face mode, foot mode, foot mode with defrosting, front defrosting mode, and rear defrosting mode. Tap the mode icon to enter the corresponding mode.
- 8) Circulations include internal circulation and external circulation. Tap the circulation icon to switch the circulation mode.
- 9) OFF: Turn off A/C.





## Automatic A/C


- 1) Some vehicle models are equipped with automatic A/C.
- 2) Tap the shortcut bar "❄️" above to enter the A/C control interface.
- 3) Tap [AC] to turn on the A/C compressor.
- 4) Tap [AC MAX] to turn on the maximum cooling state of the A/C.
- 5) Tap [AUTO] to turn on the automatic temperature control state of the A/C. In the full AUTO state, if any of the air volume, mode, internal/external circulation, and A/C buttons is operated, the full AUTO state will be exited.
- 6) Tap the [⬆️] / [⬇️] button or slide the white block to adjust the temperature.  
Adjust the temperature upwards, and the automatic A/C setting will increase by 0.5°C until the maximum of 32°C, and HI will be displayed when it is higher than 32°C. Adjust the temperature downwards, and the automatic A/C setting will decrease by 0.5°C until the minimum of 18°C, and LO will be displayed when it is lower than 18°C.
- 7) Tap the [🌀] / [🌀] button or slide the white block to adjust the air volume level.
- 8) Modes include face and foot mode, face mode, foot mode, foot mode with defrosting, front defrosting mode, and rear defrosting mode. Tap the mode icon to enter the corresponding mode.
- 9) Circulations include internal circulation and external circulation. Tap the circulation icon to switch the circulation mode.
- 10) OFF: Turn off A/C.



# 10. Settings

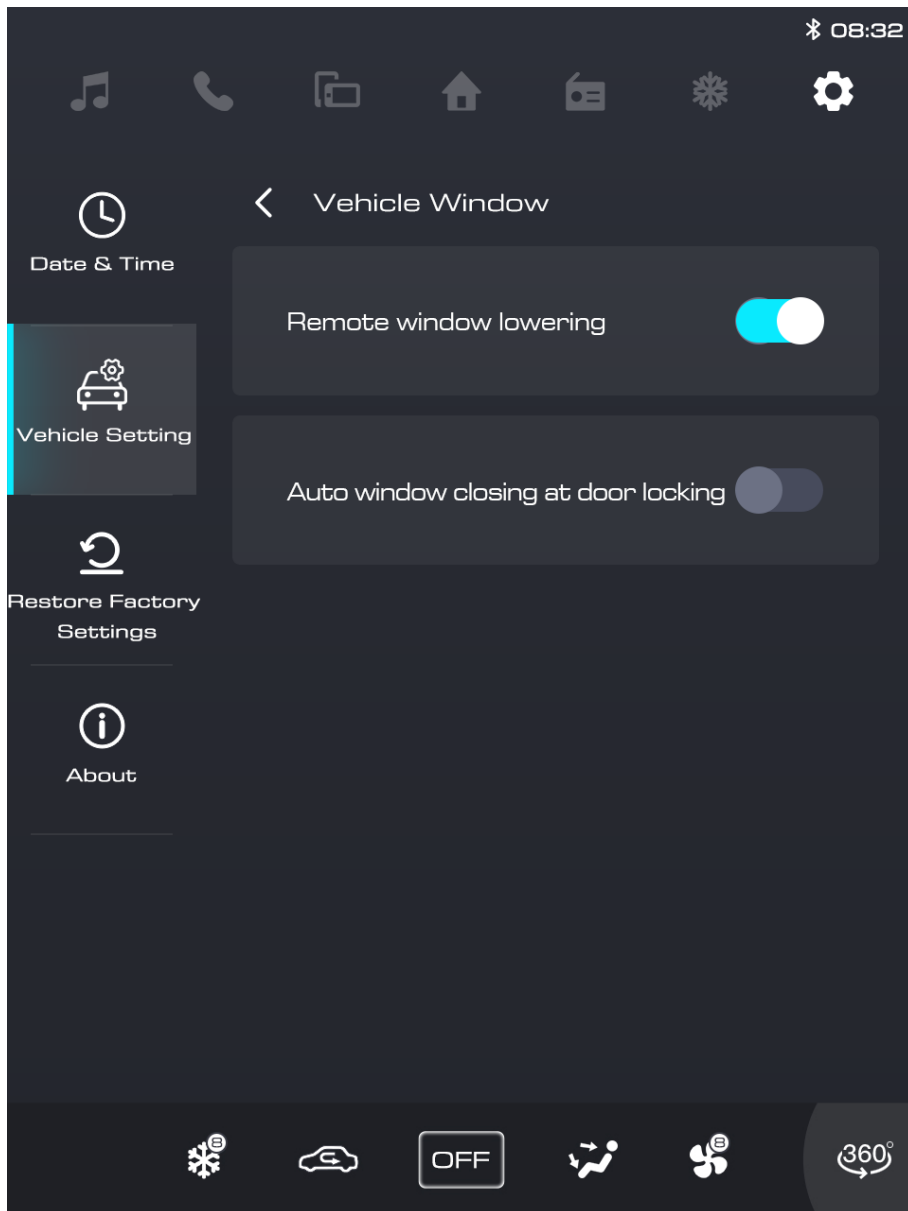
## Bluetooth



- 1) Tap the shortcut bar "  " above to enter the setting page.
- 2) When entering the Bluetooth switch setting for the first time, the IVI does not have a Bluetooth pairing history, so the mobile phone and the onboard Bluetooth shall be paired.
- 3) When the IVI has a pairing history, click the Bluetooth name of the mobile phone to connect to the mobile phone.
- 4) When Bluetooth is disconnected, clicking the "Delete" icon can delete it from the My Devices list.

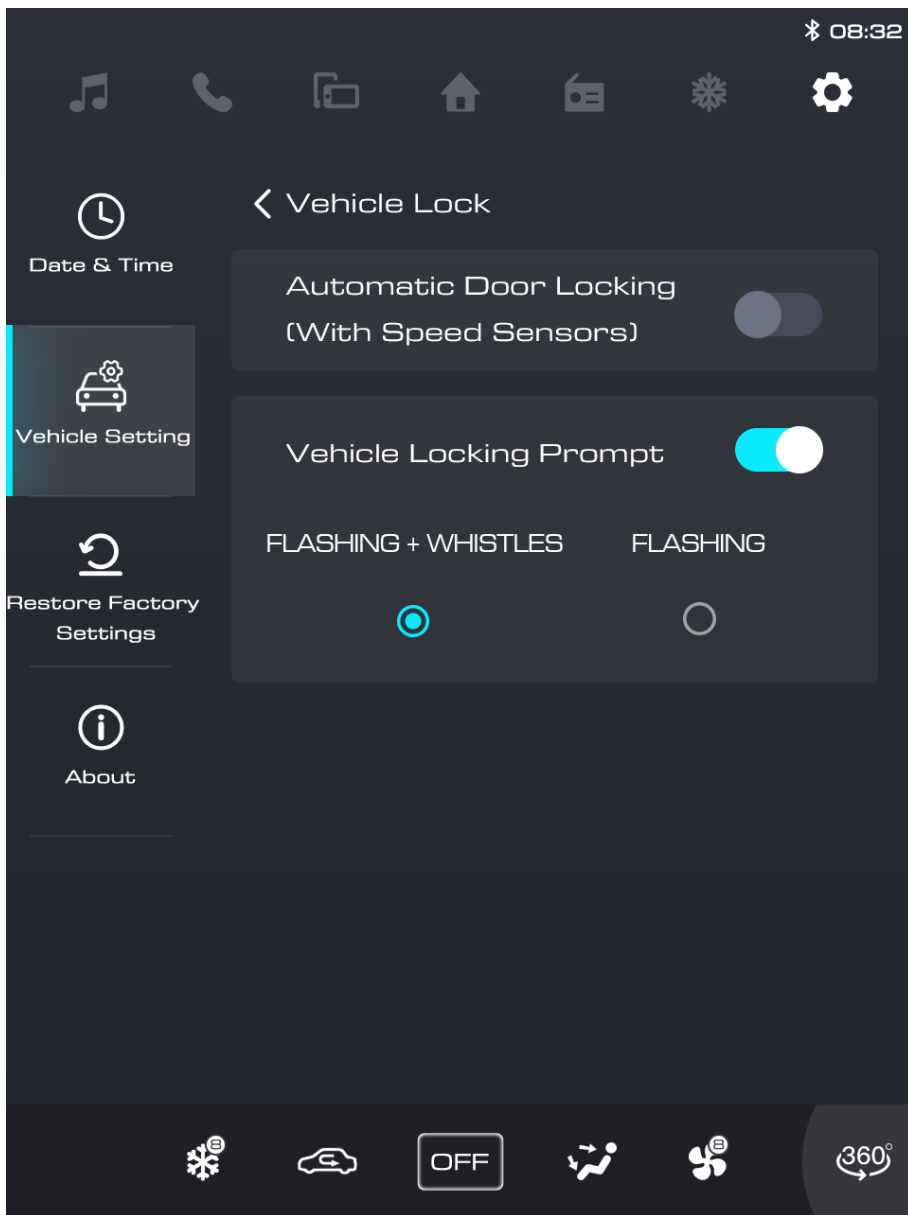
## Vehicle Settings

Tap the [Vehicle Settings] button to enter the vehicle setting page, including "Windows", "Locks", "Lights" and "Wipers".



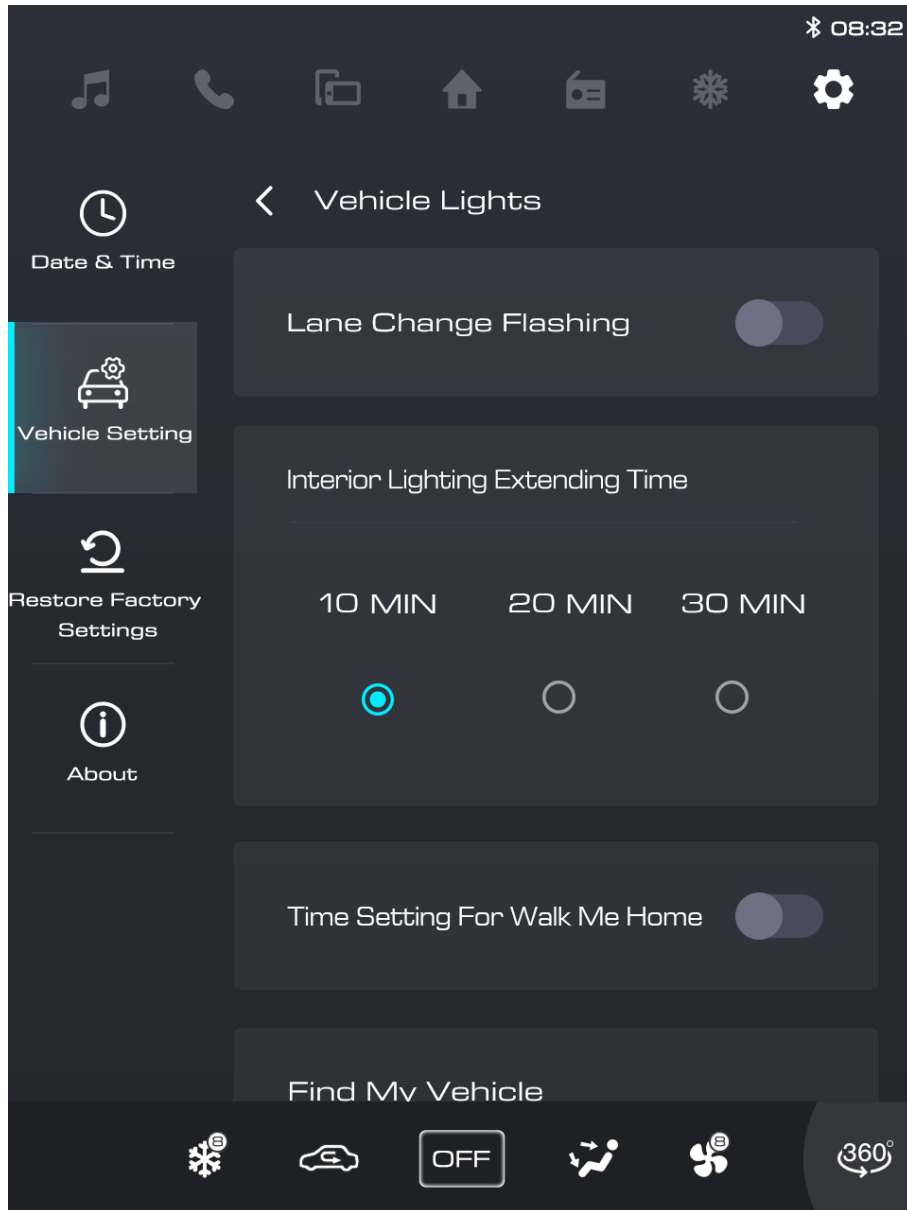
## Windows

- 1) Remote window lowering: If it is set to ON, the user can remotely lower all windows by pressing and holding the unlock button on the remote key.
- 2) Automatic sunroof closing upon vehicle locking (only for high configuration): If it is set to ON, the sunroof can be automatically closed when the vehicle is locked remotely by pressing briefly the lock button on the remote key.



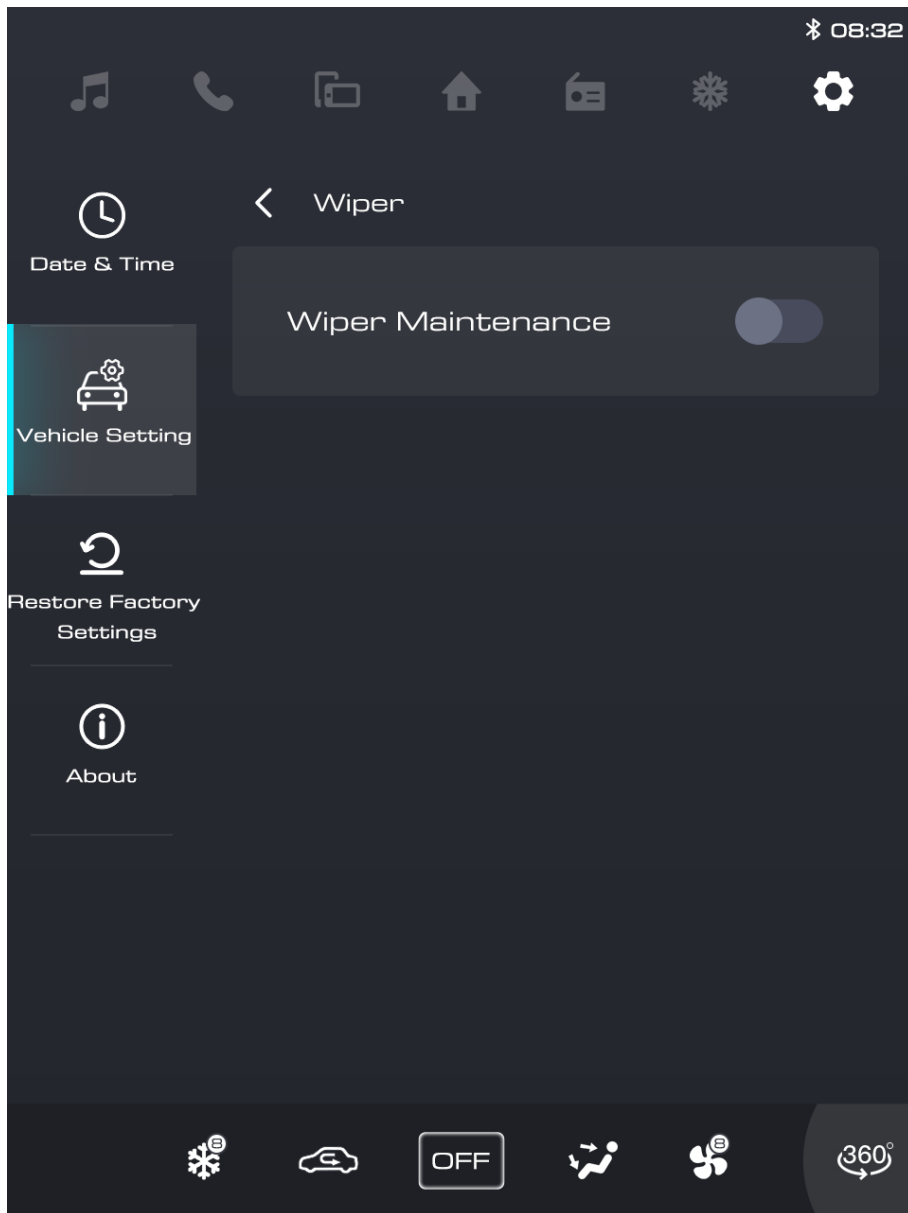
## Locks

- 1) Speed-up locking: If it is set to ON, the vehicle will be locked automatically when the vehicle speed increases from less than 10 km/h to more than 10 km/h.
- 2) Locking prompt: It can be set as flashing + whistling or flashing.



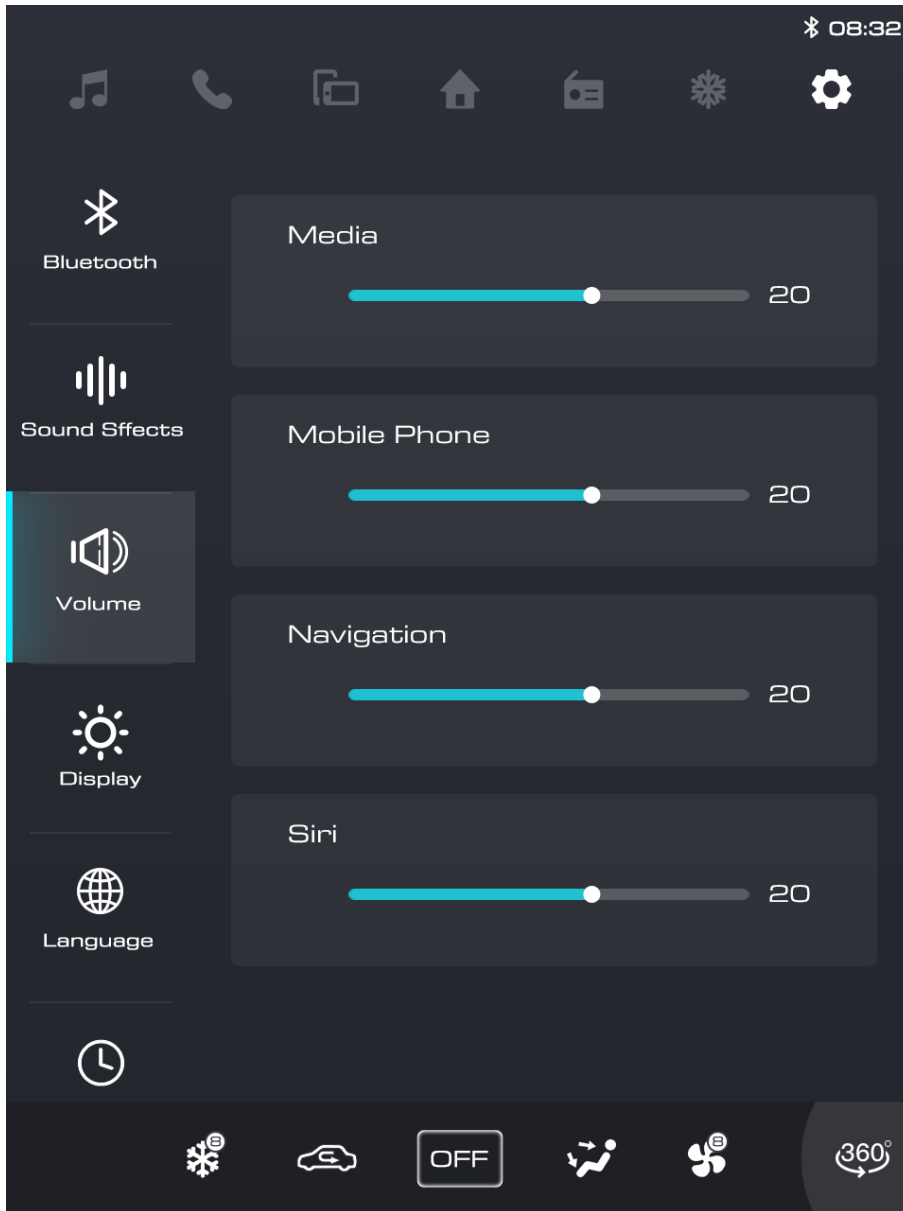
## Lights

- 1) Lane change flashing: If it is set to ON, it will be turned off immediately after the turn signal light is turned on, and it will be turned off automatically after the turn signal light flashes at least three times; if it is set to OFF, it will be turned off immediately after the turn signal light is turned on, and it will be turned off automatically after the turn signal light flashes only once.
- 2) Interior lighting extended time: The timing will start after power down ( no timing will be made in the ON position, the interior lights will stay on all the time) according to the set time. If the interior state changes during the timing, such as key position, door opening/closing, locking/unlocking, etc., the interior lighting will be timed again. It can be set to be 10min, 20min and 30min, and the default is 10min.
- 3) "Follow Me Home" time setting: If it is set to 30s, the headlight will stay on for 30s and then automatically go out after the user locks the vehicle; if it is set to 50s, the headlight will stay on for 50s and then automatically go out after the user locks the vehicle; if it is set to 75s, the headlight will stay on for 75s and then automatically go out after the user locks the vehicle. Triggering method: Shut down the vehicle, toggle the overtaking light twice continuously, close the door and lock the vehicle. When the user leaves the vehicle, the vehicle headlight will continue to light up, and the duration can be set to OFF, 30s, 50s and 75s (timed after the user locks the door).
- 4) Vehicle locating function: It can be set to flashing or flashing + whistling. Flashing: The user quickly presses the lock button twice, and the vehicle warning light lights up and flashes continuously for 20s; Flashing + whistling: The vehicle warning light lights up and flashes continuously for 20s and the vehicle whistles 3 times.



## Wiper Repair

- 1) When it is set to ON, the wiper moves to the middle position of the front windshield.
- 2) When it is set to OFF, the wiper returns to the initial position.

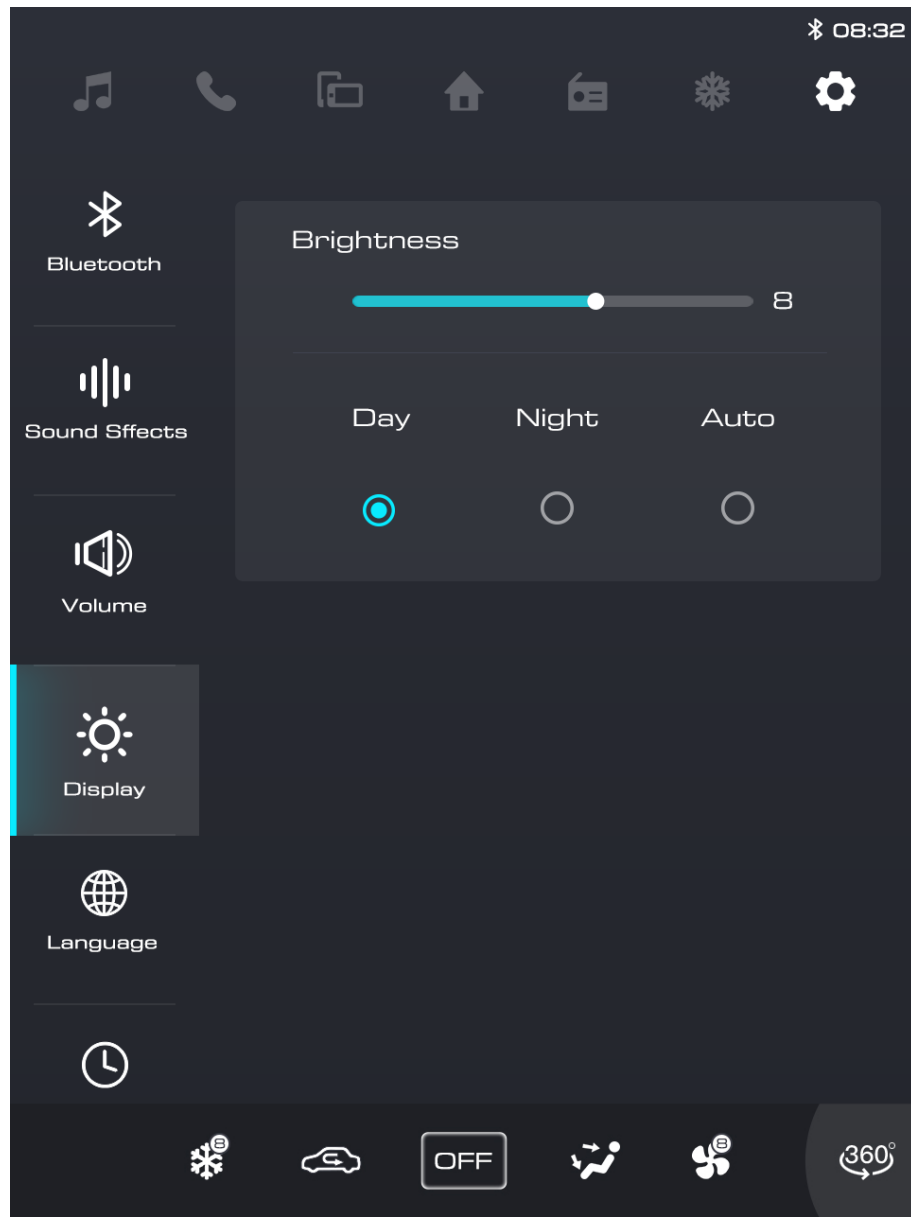


## Volume Setting

CarPlay is connected.

can be set.

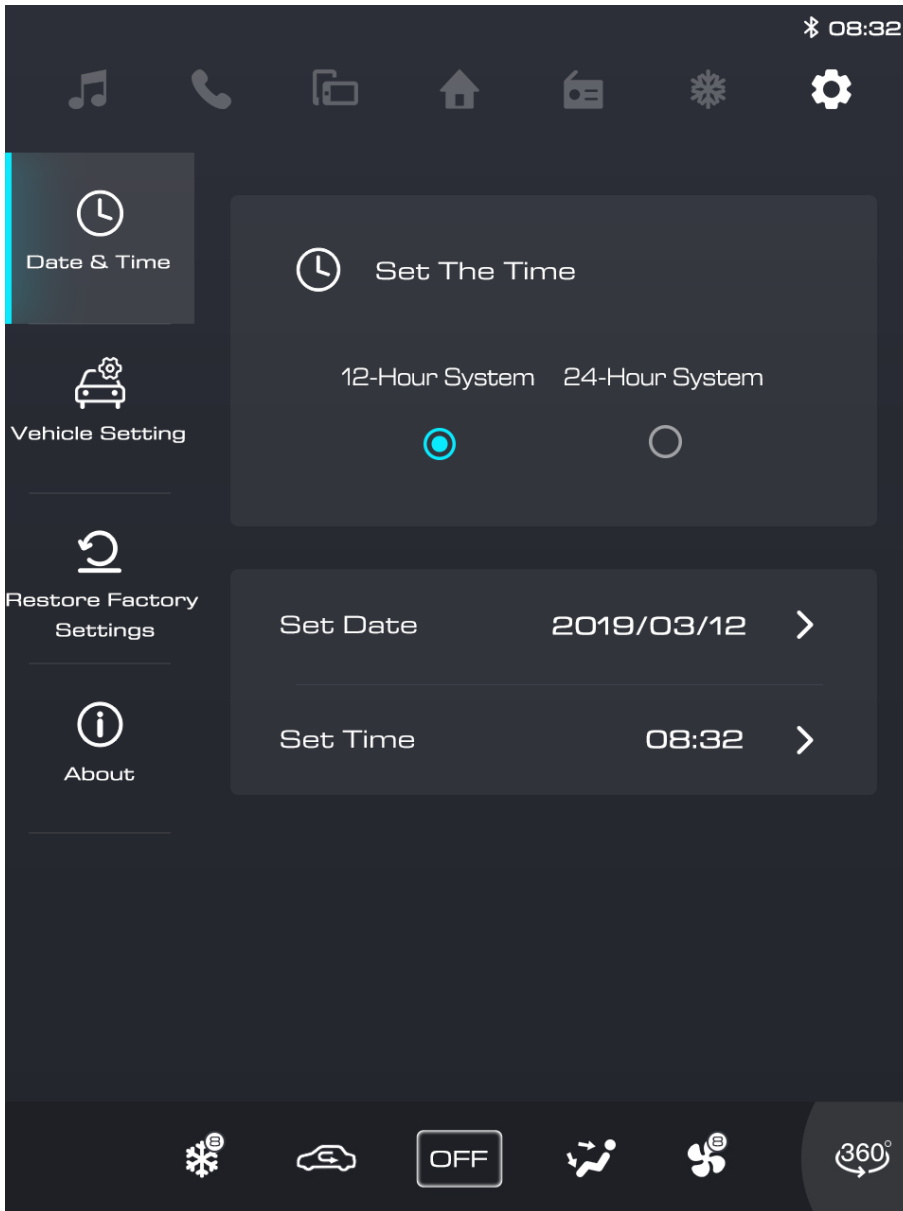
- 1) Media volume and telephone volume can be set on this page.
- 2) CarPlay NAVI volume and CarPlay Siri volume can also be set if
- 3) When Android Auto is connected, the Android Auto TTS volume



## Display Setting

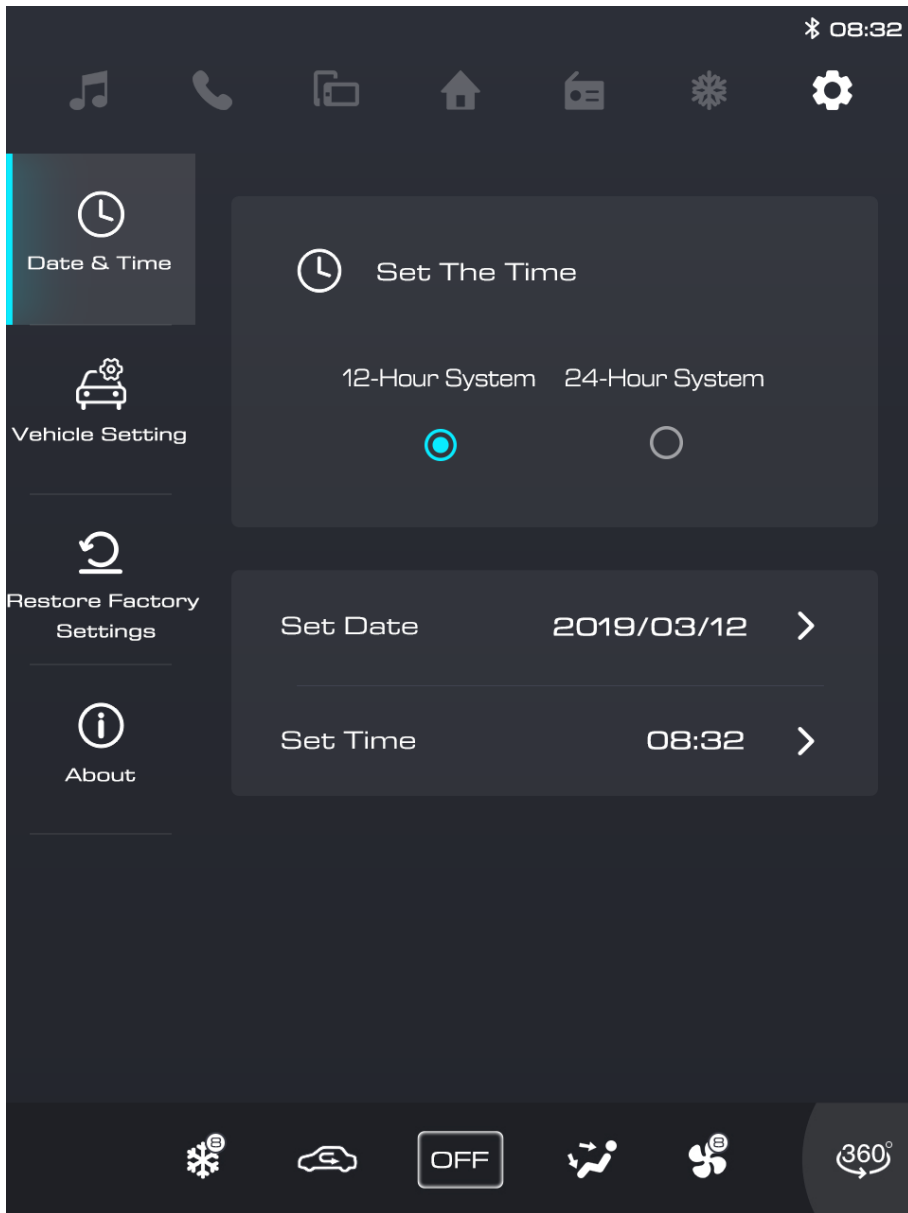
- 1) Display brightness modes [Day] / [Night] / [Auto] can be selected on this page.
- 2) When the brightness mode is Day/Night mode, the brightness value can be set according to the user's preference. Tap the "Slider" to a certain position or drag it left and right to adjust the brightness value (when tapping a certain position or dragging it left and right, the brightness value will change immediately according to the current setting). The brightness range is 1-10.
- 3) When the brightness mode is the automatic mode, the brightness value cannot be adjusted, and the display brightness and button backlight brightness are adjusted according to the headlight signal.





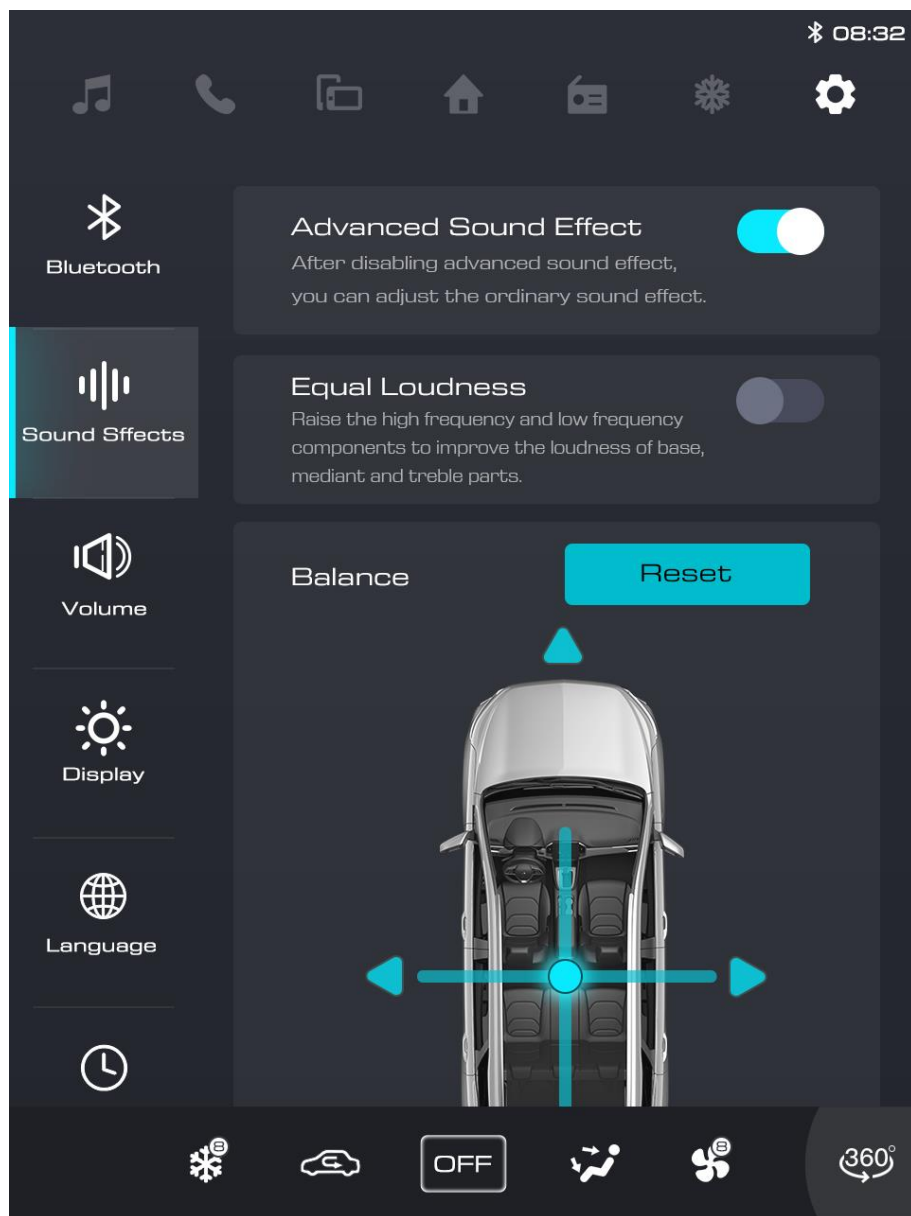
## Language

Tap the [Language] button to enter the language setting page. English/Spain/Arabic can be switched.



## Time Setting

- 1) Tap the [Time] button to enter the time setting page.
- 2) Tap "Set Time" to enter the time setting page.
- 3) Slide up and down to adjust time, morning, afternoon, etc.
- 4) After adjusting the time, click "OK" to complete the time setting; click "Cancel" to cancel the time setting.



## Sound Effect Setting

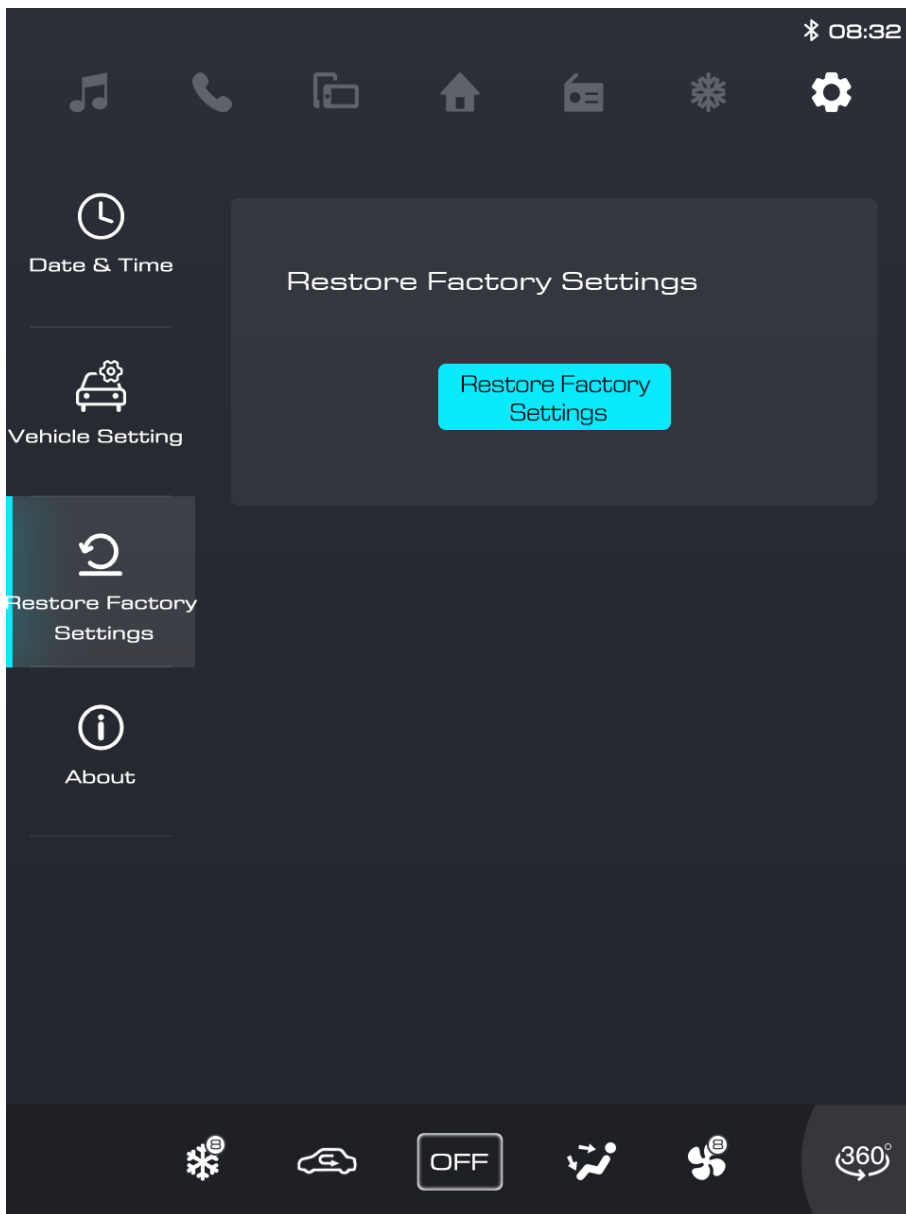
Tap the [Sound Effect] button to enter the sound effect page. "Advanced Sound Effect", "Ordinary Sound Effect", "Equal Loudness" and "Balance" can be set on this page.

1) After the advanced sound effect is turned on, the sound field of the sound effect will be positioned at the driver's seat, the sound height will be above the instrument, and the sound width will be greater than the vehicle body width so that the sound is balanced and various musical instrument levels are well arranged.

2) When the advanced sound effect is turned off, the normal sound effect supports custom/classical/default/fashion/jazz/rock, which can be selected for playing.

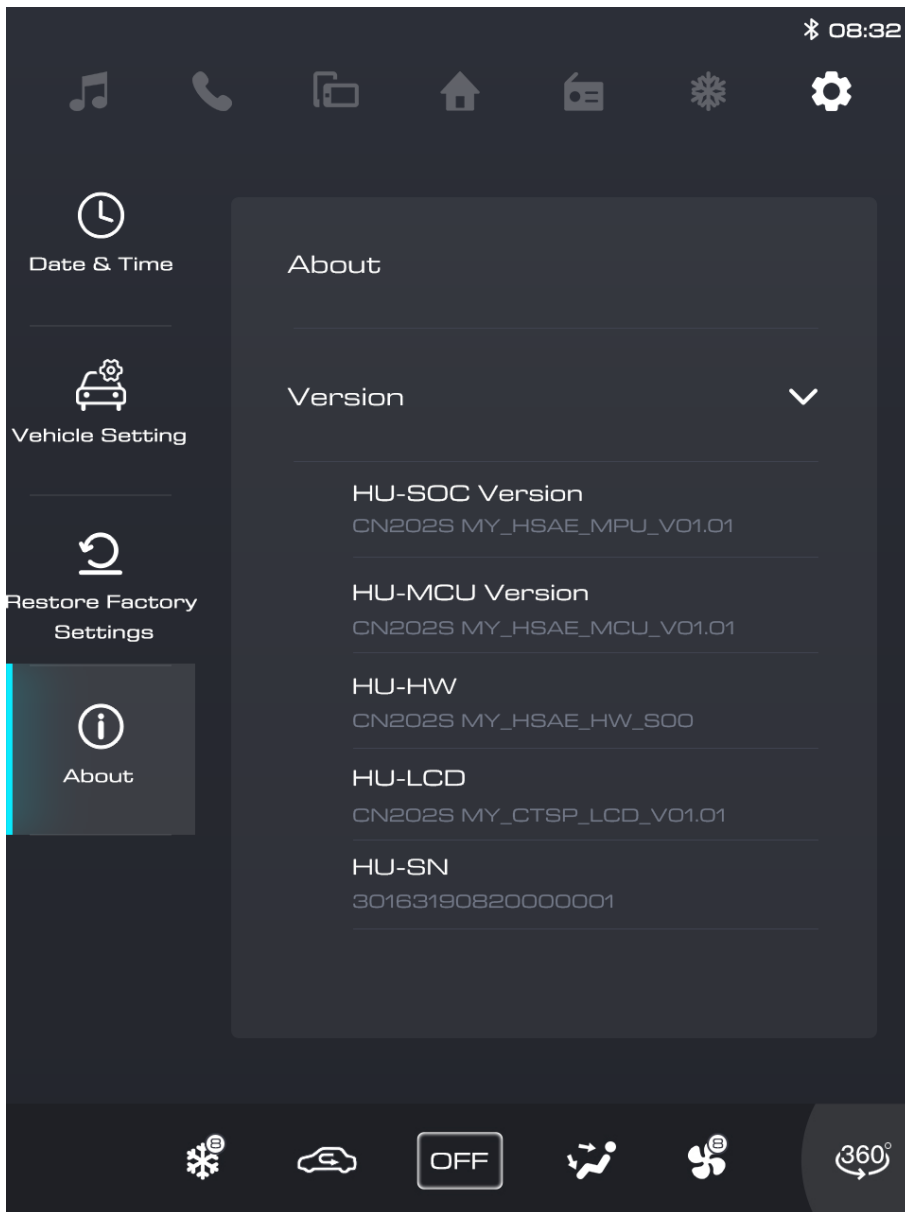
3) When the equal loudness is turned on, there will be an appropriate gain effect to enhance the user experience.

4) Balance means that the sound field is located in the front left, front right, rear left, and rear right. When the user taps the reset button, the sound field will return to the middle position.



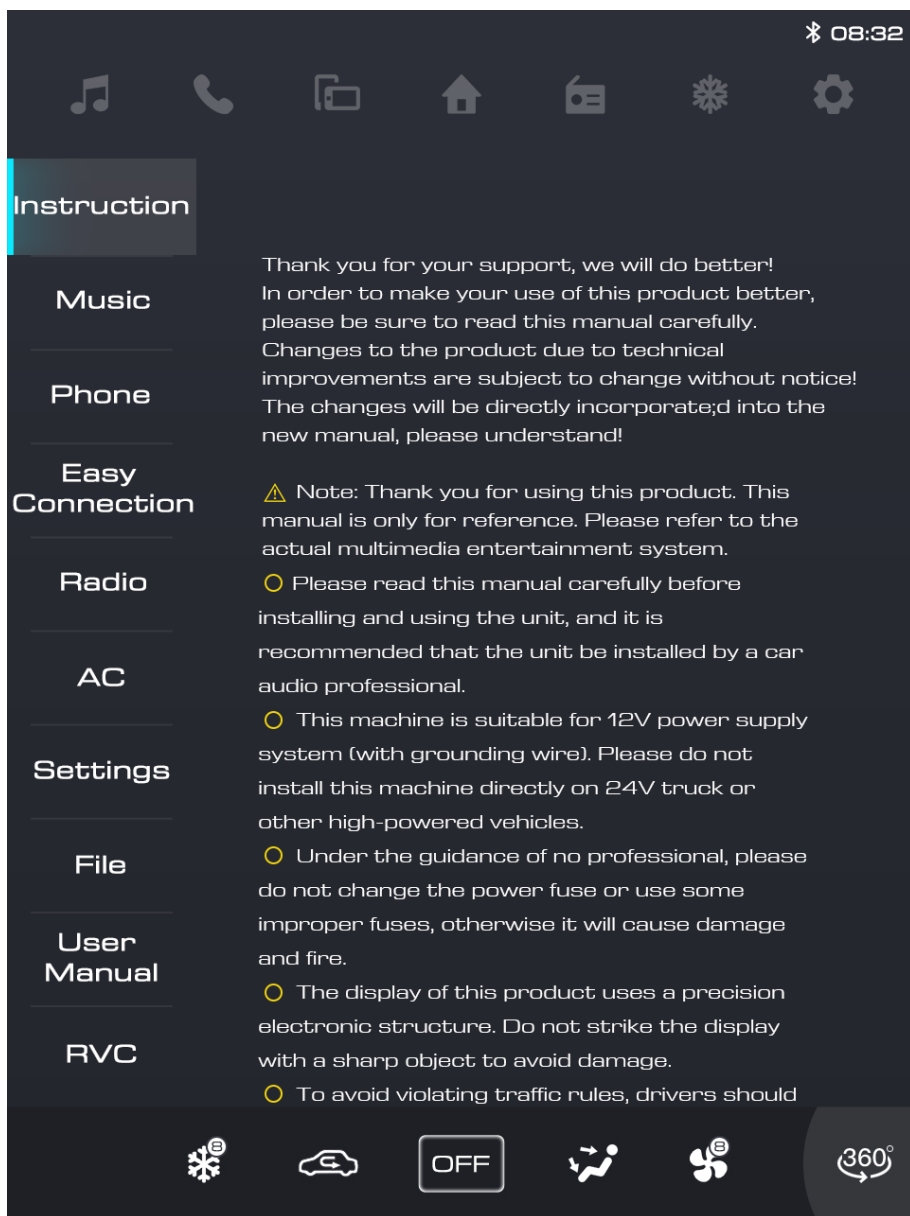
## Factory Reset

- 1) Factory reset: It refers to the restoration of all multimedia functions and options to factory settings.
- 2) Factory reset conditions: a. The vehicle power supply must be in the ON position. b. The vehicle must be stationary.
- 3) The multimedia entertainment system will restart automatically after the factory settings are restored successfully.



## About

Tap [About] to enter the About Wuling page. System version information, SOC version, MCU version, hardware version, display screen version, and SN will be displayed.



## 11. User Manual

- 1) The User Manual realizes the function of a simple electronic manual. The operating instructions and interfaces are made into pictures for the user to view and preliminarily learn how to operate the system on the host.
- 2) Scroll up and down to view different contents of the User Manual. The contents of the Manual vary slightly according to different functions.
- 3) The first page is entered by default.
- 4) The User Manual is for reference only. Please refer to the actual product.



## 12. Reversing

### General Reversing

Some vehicle models are equipped with general reversing

- 1) When the reverse gear is engaged, the multimedia entertainment system will automatically switch to the reversing video interface.
- 2) During reversing, the multimedia volume is kept at a fixed level, and cannot be adjusted. The steering wheel and panel buttons do not respond, but only respond to the Answer/Hang up button.
- 3) In non-reversing mode, if the vehicle radar detects an obstacle within the effective range, an obstacle prompt will be displayed at the corresponding radar position. The user can click "X" to close the prompt.


Note: Some models have only 4 radars at the rear and others have 6 radars (2 in the front and 4 in the rear).

### 360 Reversing

Some models are equipped with 360 panoramic reversing video



1) When the reverse gear is engaged, the multimedia entertainment system will automatically switch to the 360 reversing video interface;

2) The user can enter the 360 reversing video interface by clicking "  " on the main interface. (Speed  $\leq 15$  Km/h)

3) In the non-reversing mode, if the vehicle radar detects obstacles within the effective distance from the rear left, middle of rear left, rear right, and middle of rear right, the 360 reversing mode will be entered.

4) During 360 reversing, the multimedia volume is kept at a fixed level, and cannot be adjusted. The steering wheel and panel buttons do not respond, but only respond to the Answer/Hang up button.

5) The user can set to select the front view angle or the rear view angle.