

Version:1.0

SmartAuto Vehicle Information System Function Specification



Chleon (China) Automotive Information System Co., Ltd



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1 Introduction

1.1 Preface

Thank you for choosing to use this intelligent vehicle information system.

SmartAuto vehicle information system refers to a comprehensive software mounted on the vehicles concerning navigation and entertainment for users' convenience, which is also shorted for vehicle system. The car owner can use the system to conduct navigation and voice recognition. Further, the flash disk can be inserted to listen to songs or watch videos; or use phone function to answer phones when driving without holding phones, which is safe and convenient. It can connect to wireless to listen to online songs and navigation.

The pictures in this specification are only for reference as the function schematic usage. Please be subject to the practical vehicle system for details. There will be no further notice for any discrepancy between contents mentioned in the specification and practical products due to function upgrade etc.

1.2 Safety precautions

The drivers shall not operate this machine during the driving process in case of affecting safe driving to cause traffic accidents (It may violate local laws in some countries and regions).

This machine is an electronic product. The common safety precautions are as follows:

This machine uses 12V power supply. Please do not install any power source that does not conform to standard on this machine in case of any damage;

Please do not conduct disassembly and assembly by yourselves, which shall be executed by professional maintenance staff;

Please do not modify system software and upgrading etc;

Please do not use sharp or solid materials to touch the screen;

Please do not operate the machine under extreme environment; the normal operating



temperature is between -10 $^{\circ}$ C to 50 $^{\circ}$ C.

Please do not pour the liquid or chemical agent such as water on the vehicle;

Our company assumes no responsibility for personal data loss and damage caused by users' mal-operation, product maintenance, replacement or other accidents.

Our company reserves the ownership and final interpretation rights for related data such as specification, three guarantees and warranty card etc.

1.3 Basic operation

This system is operated based on Android. The common operation of Android system is applicable for this system including click, long-press, double-finger zooming, slide left, slide right, slide up, slide down etc.

Gesture	Movement	Function
	Click	Also called as "single click"; that is, touch the screen for once; the click is mainly used to open programs.
	Long-press	Also called as "lock-out" and "press-on"; press the screen for over two seconds. This movement is often used to call out "menu" etc.
	Double-click	Click the screen for twice within short time continuously, which is mainly used for quick zoom. For example, double-click can zoom in pictures rapidly; then conduct rest for another double-click.
	Slide	The slide is mainly used to view pages that can not be fully displayed; the function is similar to mouse's wheel including left to right, right to left, up to down and down to up etc.
FR	Zooming	It is mainly used to zoom in or zoom out pictures and web pages etc including double-finger inward and double-finger outward.



1.4 System component

This vehicle system is composed by following 12 modules including vehicle-mounted weather, Bluetooth telephone, Bluetooth music, interest driving navigation, interest driving comment, interest driving news, video player, gallery, system setting, music player, voice recognition, Carplay.

The main interface mainly contains six common modules including app drawer, Carplay, multi-media, navigation, phone, setting and system notification.

App drawer: all function modules can be found here. Namely, 12 function modules.

Multi-media: three function modules: Bluetooth player, video player and music player.

The various functions specification will be introduced accordingly.

The below is the home page of vehicle system.

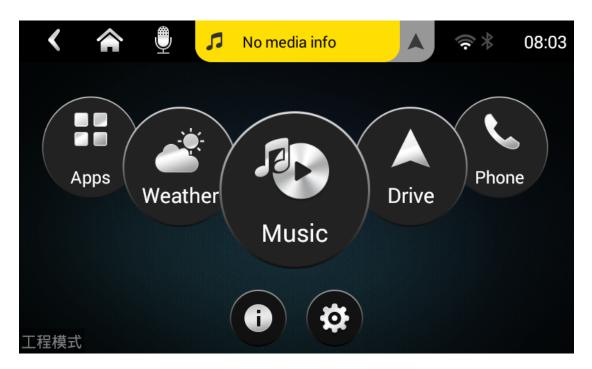


Fig 1.2-1 Home interface of vehicle system

1.5 Registration

This vehicle system can be operated after or without registration (the deader will conduct the registration for car owners).



More vehicle functions can be enjoyed after registration. Recommend users to conduct registration for further application.

The car owners can enjoy the following function experience after registration:

- 1. Free phone-side APP use: install new application for free to manage vehicle usage;
- 2. Check vehicle positioning
- 3. Check driven route
- 4. Record driving accident
- 5. Vehicle breakdown

Registration method, please see dealer instruction in chapter 2 for details.



2

Dealers' phone-side application

2.1 Download and installation

The Android phone can conduct download and installation on official website www.smartautotech.com, Myapp and 360 Phone Aid [dealerinfo].

The iPhone can conduct download and installation on official website www.smartautotech.com and AppStore [dealerinfo].

2.2 Registration process

Step one: log in dealerinfo application

Input dealer's user name and password sent by Chleon under network condition, click log-in button for successful logging. Please see below picture 2.2-1.



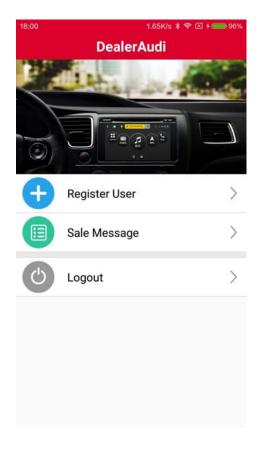
2 Ema	il	
Pas	sword	
	Login	
	Build version :1.0	

2.2-1

Step two: application function introduction:



Please see below picture: as shown in 2.2-2.

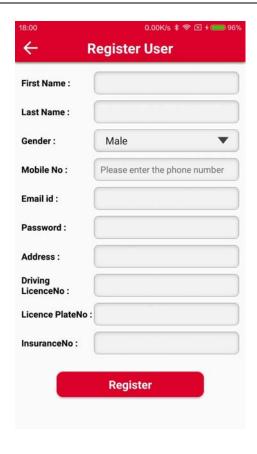


2.2-2

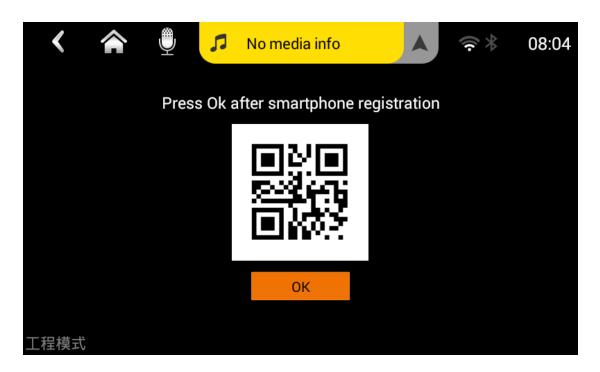
Step three: registration

Click [register user], enter into user registration interface; after inputting the corresponding information, click [registration] button; use program to scan the two-dimension code interface. Please adjust the distance from the two-dimension code on the vehicle screen for further recognition; then the project is registered successfully, as shown in the below picture 2.2-3.





2.2-3



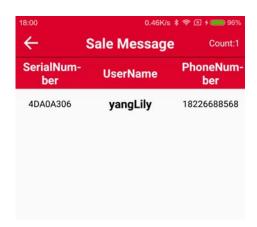
2.2-4 Phone-side registration and two-dimension code scanning

2.3 Sales information review

Step one: log in



Step two: click [sales information] in picture 2.1-2 to enter into sales information list, as shown in picture 2.2-1.



2.2-1

Step three: review detailed information;

Click one record to review detailed registration information.

2.4 Instruction

This application program requires networked operation on phone and vehicle.



S Car

Car owners' phone-side application

3.1 Download and installation

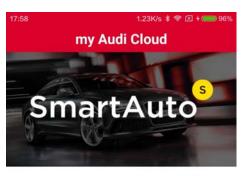
Step one: download and installation

The Android phone can conduct download and installation on official website www.smartautotech.com, Myapp and 360 phone aid [dealerinfo].

The iPhone can conduct download and installation on official website www.smartautotech.com and AppStore [dealerinfo].

Step two, log in mycarinfo application

Input user name and password provided by dealers under network condition, click log-in button for successful logging. Please see below picture 3.1-1.





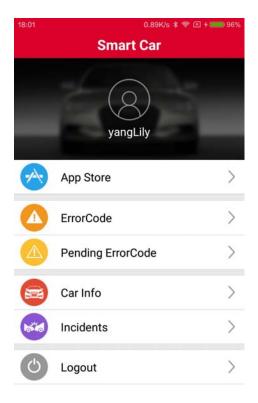
3.1-1

Build Time: 5/9/16 11:20



Step four, users-side app function list;

As shown in the below picture.

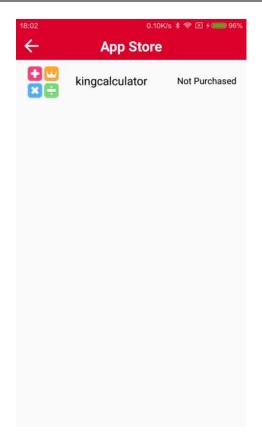


3.1-2

3.2 Application store

As shown in below picture 3.2-1; display the existing application list in the server.





3.2-1

App installation steps:

Function introduction: buyers can click the app displayed in the app list for further purchase, which can be installed on the vehicle directly with networked condition.

Step one: click the being installed app in the list to enter into a detailed page; double-click [purchase app] button for successful purchase. (At present, all apps are 0 yuan with free installation).

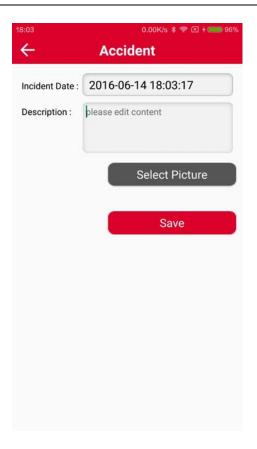
Step two, click [install app] button; the vehicle side will receive an installation message and then click vehicle side for further download and installation.

3.3 Add events

As shown in the below picture 3.3-1; event adding interface

This function aims to record the car accident events etc conveniently.





3.3-1

Function introduction: this app aims to record the event failure timely, which can be uploaded to the cloud for further storage automatically. In this way, the users can review the event in the future.

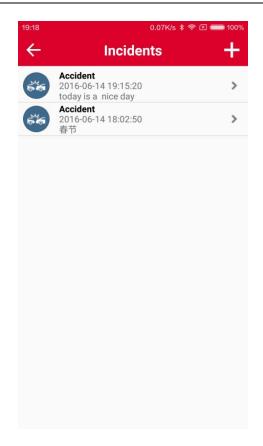
Step one: click [add event] in the app function list to enter into event adding interface and input event description;

Step two: input event date;

Step three: take and save pictures;

Step four: successful save;





3.4 Trouble code

This function will send the common trouble codes and failure to phone-side application with networked condition for car owners' further review and maintenance.





3.5-1

3.5 Instruction

This app program requires networked operation on phone and vehicle.



System setting-instruction

4.1 Operation

There are two ways to enter into the home page of system setting:

One: the main interface of vehicle system will be displayed after start-up; select [app] drawer to enter into the app list page; select [system setting] in the app list page to enter into the home page of system setting;

Two: the main interface of vehicle system will be displayed after start-up; click [system setting] in the home page directly for further entrance.

As shown in the below picture: the home page of system setting;

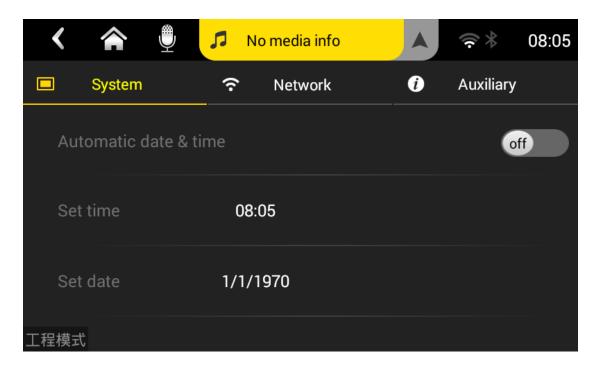


Fig 4.1-1 Home page of system setting

4.2 Exit

There are two ways to exit the software:

• Click at the top bar on the system setting app interface can achieve single-step



return; click continuously to return to the app interface or vehicle system interface;

• Click Home button directly in the system setting app interface can return to the main interface of vehicle system.

4.3 Basic operation

4.3.1 Function description

There are three options in the system setting including system, network and auxiliary;

System function: determine date and time automatically; set up date and time manually with 24-hour format.

Network function: can connect to wireless;

Auxiliary function: display vehicle's Android version information, hardware version information, Bluetooth version information and MCU version information.

4.3.2 Interface and operation description

Home page of system setting:

With close [determine date and time automatically], click [set up time], [set up date] to set up time and date manually;

With open [determine data and time automatically], the system will set up time and date automatically after connecting to satellite.

Set up date and time page manually: as shown in the below picture 4.3.2-1 and 4.3.1-2;

Select needed date and time by sliding up and down and then click [determine] button to confirm saving.



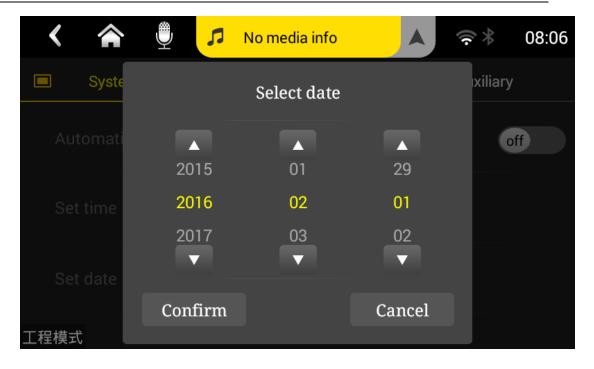


Fig 4.3.2-1 Date setting page

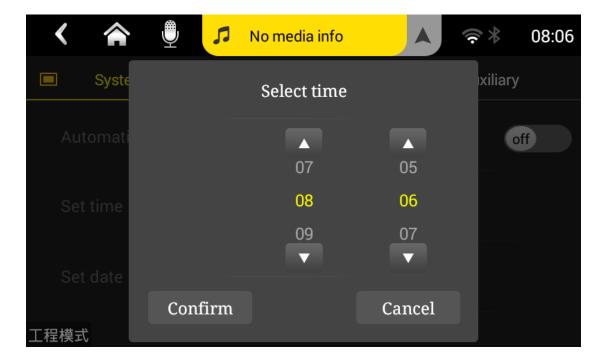


Fig 4.3.2-2 Time setting page

Use 24-hour format: defaults to off; after manual start-up, the time in the main interface of system will be displayed in 24-hour format.



Network page: as shown in the below picture 4.3.2-3

After opening the network, the system will scan the surrounding networks automatically; click the network name and fill in the password; after confirmation, connect to the system successfully under good network signal and correct password. The below picture displays successful connection; the top right corner on the main interface shows network connection status; as shown in 1.2-1;

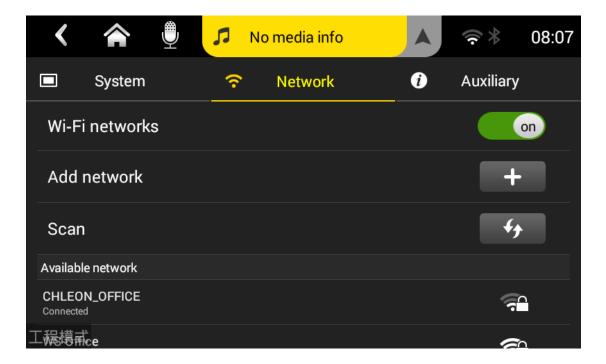


Fig 4.3.2-3 Network page

Auxiliary page:



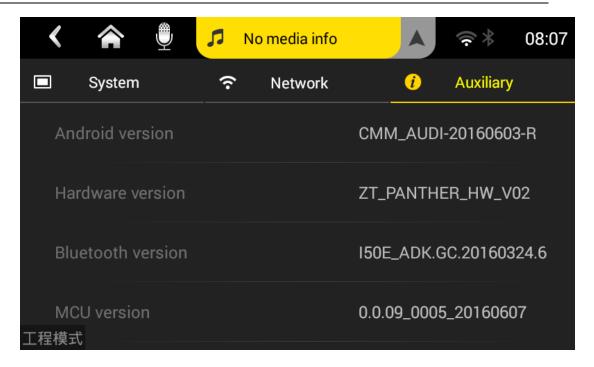


Fig 4.3.2-4 Auxiliary page



5 Bluetooth telephone-instruction

5.1 Operation

There are two ways to enter into the home page of telephone function:

One: the main interface of vehicle system will be displayed after start-up; select [app] drawer to enter into the app list page; select [telephone] in the app list page to enter into the home page of telephone.

Two, the main interface of vehicle system will be displayed after start-up; click [telephone] in the main interface directly to enter into the home page of telephone;

As shown in the picture: the home page of telephone

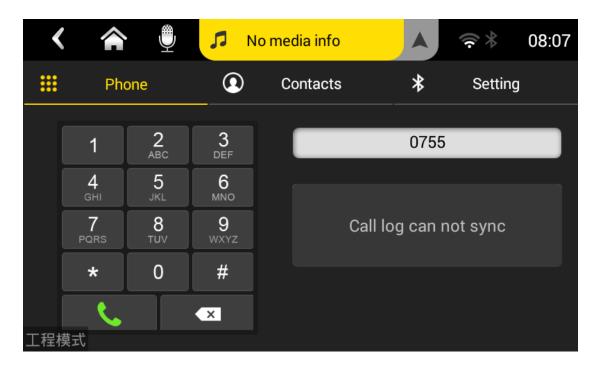


Fig 5.1-1 Home page of telephone

5.2 Exit

There are two ways to exit software:

• Click at the top bar on the telephone app interface can achieve single-step return; click continuously to return to app interface or vehicle system interface;



• Click Home button directly in the telephone app interface can return to the main interface of vehicle system.

5.3 Basic operation

5.3.1 Telephone setting

5.3.1.1 Function description

In this page, the Bluetooth default is off. If the left new equipment adding button displays gray, no equipment can be added. The Bluetooth shall be opened to activate this function.

After opening the Bluetooth, three functions will be appeared simultaneously including phonebook synchronization, incoming telegram voice broadcast and equipment name. The phonebook synchronization and incoming telegram voice broadcast are in an open state. The equipment name function can be achieved by clicking [change] buttons.

5.3.1.2 Interface and operation description

After opening Bluetooth: as shown in the below picture 5.3.1.2-1.

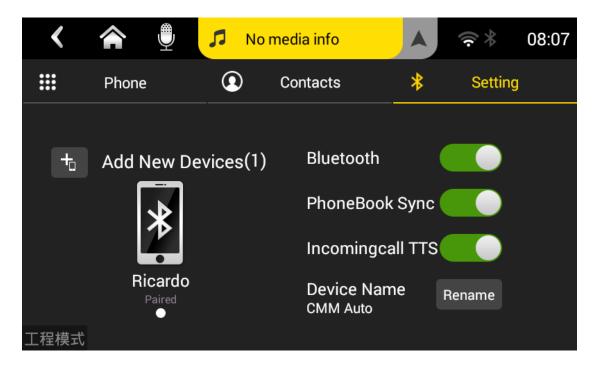


Fig 5.3.1.2-1 Page after opening Bluetooth

Page to change equipment name: as shown in the below picture 5.3.1-2-2.



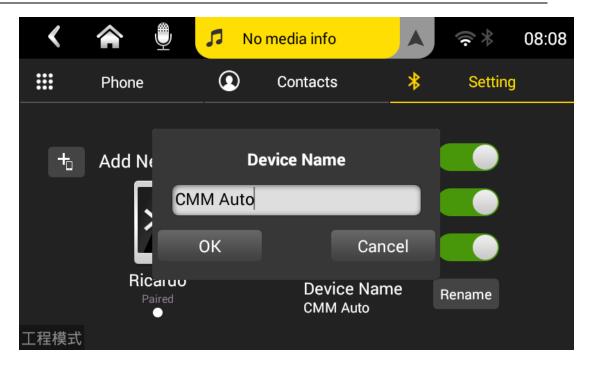


Fig 5.3.1.2-2 Page to change equipment name

Click to add new equipment: as shown in the below picture 5.3.1.2-3;

Description: open bluetooth function on the phone to search for bluetooth equipment; after finding the vehicle's bluetooth equipment name, conduct matching for successful connection.

After successful connection, the vehicle will synchronize with the phone address book, as shown in 5.3.2.1-1.

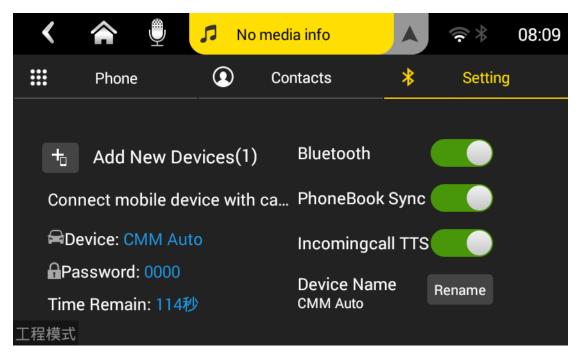




Fig 5.3.1.2-3 Page to add new equipment

Click mobile device icon: as shown in the below picture 5.3.1.2-4.

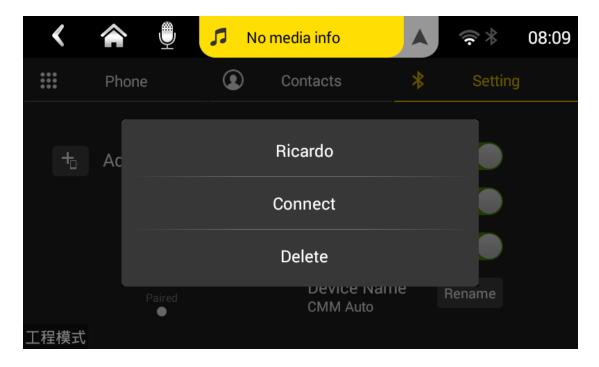


Fig 5.3.1.2-4 Page on the phone device

5.3.2 Address book

5.3.2.1 **Function description**

If the car owners do not connect the phone in the [telephone setting], the [address book] function is not available. The page will display "bluetooth is not connected; the contacts can not be synchronized". After adding phone equipment, the page of [address book] will display phone's contact list. The contacts will be ordered according to alphabet (A-Z). The car owners can find the needed contacts by clicking the letters or sliding letters up and down or sliding the screen up and down, then click green phone button to conduct dialing.

5.3.2.2 Interface and operation description

Address book page: as shown in the below picture 5.3.2.2-1;

Description: the car owners can find contacts through two ways:

One, find contacts by sliding the screen up and down;

Two, click or slide the letter row up and down, the screen will display all contacts with the



same initials.

After finding the contact, click green phone button ____ to conduct dialing.

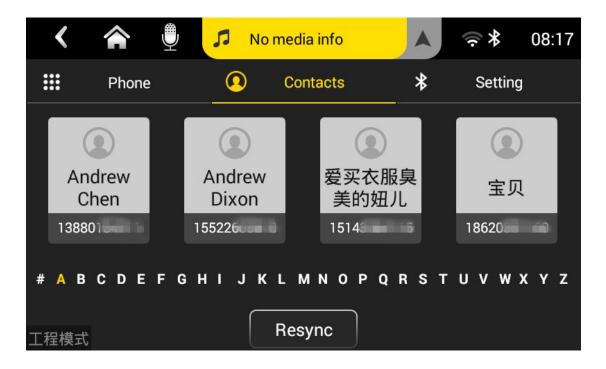


Fig 4.3.2.2-1 Page of address book

5.3.3 Phone dialing

5.3.3.1 Function description

If the car owners have not added phone equipment in the phone setting, the phone dialing function can not be used with the right page displaying "the call records are not synchronized".

The car owners can conduct phone dialing or answering on the phone dialing page after connecting the phone in the telephone setting. The left side is a dial that can conduct manual dialing. The right side is call records. The car owners can dial the phone by clicking some record directly.

The telephone dialing page will display the income calls immediately. The car owners can answer the phone promptly with mute function, letter, number and symbol function input, phone answering function switch and hang-up function etc.



5.3.3.2 Interface and operation description

Phone dialing page: as shown in the below picture 5.3.3.2-1.

The car owners can conduct dialing by clicking phone numbers in the call records or conduct manual dialing on the dial plate.



Fig 5.3.3.2-1 Home page of phone dialing

In-call page: as shown in 5.3.3.2-2.

One, Mute operation: click mute button **.

Two, Number (or alphabetic symbol) input operation: click grid button

Three, Phone answering switch: click phone button

Four, Hang-up operation: click red phone button



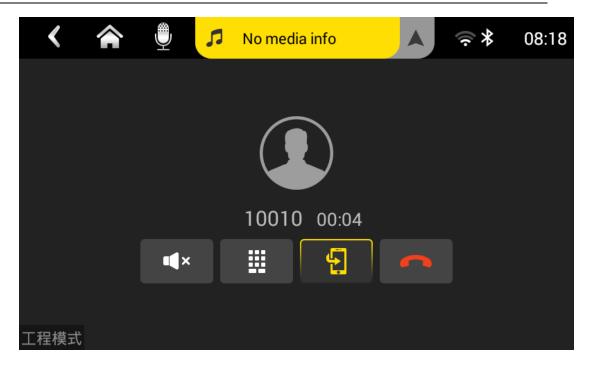


Fig 5.3.3-2-2 In-call page

Incoming call page: as shown in the below picture 5.3.3.2-3

One, Put-through button:

Two, Hang-up button:



Fig 5.3.3.2-3 Incoming call page



Bluetooth player-instruction

6.1 Operation

There are two ways to enter into the home page of bluetooth player.

One: the main interface of vehicle system will be displayed after start-up; select [app] drawer to enter into the app list page; select [bluetooth player] in the app list page to enter into the home page of bluetooth player.

Two, the main interface of vehicle system will be displayed after start-up; select [multi-media] to enter into multi-media list page; select [bluetooth player] in the app list page to enter into the home page of bluetooth player.

6.2 Exit

There are two ways to exit software:

- Click at the top bar on the bluetooth player app interface can achieve single-step return; click continuously to return to app interface or multi-media interface or vehicle system interface;
- Click Home button directly in the telephone app interface can return to the main interface of vehicle system.

6.3 Basic operation

6.3.1 Function description

The car owners can open bluetooth player after connecting with phones (please refer to bluetooth phone--phone setting). The music on the phones can be played by using bluetooth players. Bluetooth player interface: song name, singer name, previous song button, next song button, play/pause button. The car owners can conduct relevant operations, switch to previous or next song and click the middle button to pause or play songs through the interface.

6.3.2 Interface and operation description

After entering into bluetooth music, the music player on the phone can be played



automatically;

Previous song: click the left arrow, synchornize the previous song in the music player;

Next song: click the right arrow , synchorize the next song in the music player;

Pause or play operation: click the middle pause button or play button synchorize the pause or play operation in the music player, as shown in the screenshot 6.3.2-1

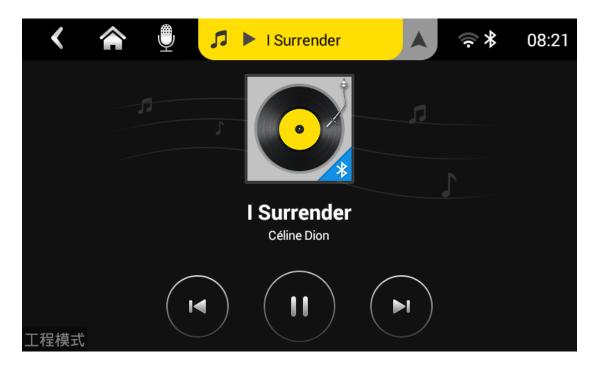


图 6.3.2-1

Fig 6.3.2-1



Video player-instruction

7.1 Operation

There are two ways to enter into the home page of video player:

One: the main interface of vehicle system will be displayed after start-up; select [app] to enter into the app list page; select [video player] in the app list page to enter into the home page of video player.

Two, the main interface of vehicle system will be displayed after start-up; click [multi-media] to enter into multi-media list page; select [video player] in the multi-media list page to enter into the home page of video player;

7.2 Exit

There are two ways to exit the software:

- Click at the top bar on the video player app interface can achieve single-step return; click continuously to return to app interface or vehicle system interface;
- Click Home button directly in the videp player app interface can return to the main interface of vehicle system.

7.3 Basic operation

7.3.1 Function description

The car owners insert the flask disk into the vehicle and click the video player; the video files in the flask disk can be played. Click the being played video in the playlist to enter into play page; click play image or wait for 5 seconds to enter into video maximized mode. In the playing process, the playing course can be adjusted on the progress bar after clicking the image. Click the left button to play the previous video, while click the right button to play the next video; click the right down button to exit the maximized mode.

7.3.2 Interface and operation description

Home page of video player:



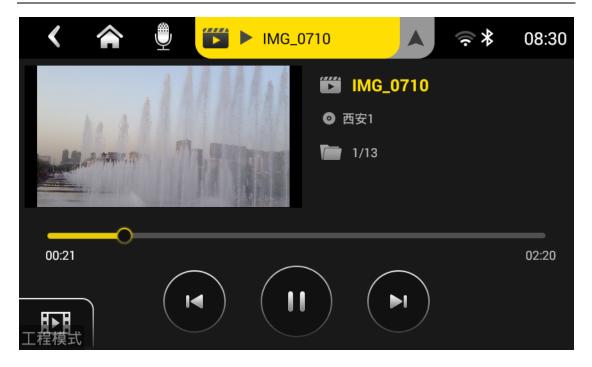


Fig 6.3.2-1 Home page of video player

The video fast forward or fast reverse operation: the progress bar will be showed on the video play page or full-screen page; drag the progress bar left and right can achieve fast forward or fast reverse function.

Operation to play the next or previous video: on the video play page or full-screen page, click the left button to play the previous video; click the right button to play the next video.

Video list page:





Fig 6.3.2-2 Page of video player list

Operation to enter into the video list: click the lower left music button on the home page of video play to enter into the video list page;

Select video operation: slide the screen or right alphabet list up and down on the video list page to find the needed video; click the play button or video icon and name to enter into video play page.

Page of video full-screen play:



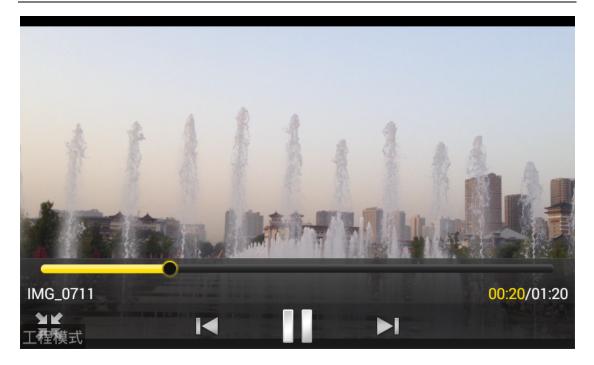


Fig 6.3.2-3 Maximized page of video player

Video full-screen operation: wait for 5 seconds on the video play page or click the video image manually to enter into video full-screen mode;

Operation to exit video: with full-screen video, click the image and the full-screen exit icon on th lower left corner to exit full-screen mode.

The video player will display "no availiable files" when not connecting the flask disk.



8

Music player-instruction

8.1 Operation

There are two ways to enter into the home page of music player;

One: the main interface of vehicle system will be displayed after start-up; select [app] to enter into the app list page; select [music player] in the app list page to enter into the home page of music player.

Two, the main interface of vehicle system will be displayed after start-up; click [multi-media] to enter into multi-media list page; select [music player] in the multi-media list page to enter into the home page of music player;

8.2 Exit

There are two ways to exit software:

- Click at the top bar on the music player app interface can achieve single-step return; click continuously to return to app interface or vehicle system interface;
- Click Home button directly in the telephone app interface can return to the main interface of vehicle system.

8.3 Basic operation

8.3.1 Function description

After inserting the flask disk, the music can be played on the music player page with song name, singer, album name and album cover.

The car owners can play online music in the music player after networking;

Concerning search function, input song name or singer name, album name to search the corresponding local or network songs;

The collection function can only collect network songs.



Supported music format: common music format such as mp3, acc, aiff, flac, .mka, m4a and wmaetc;

8.3.2 Interface and operation description

Music player interface:

The home page of music player will display song name, singer name, album name, album cover, progress bar, song list button, the previous song button, play/pause button, the next song button, collection button and song cycle button, as shown in the picture 8.3.2-1.

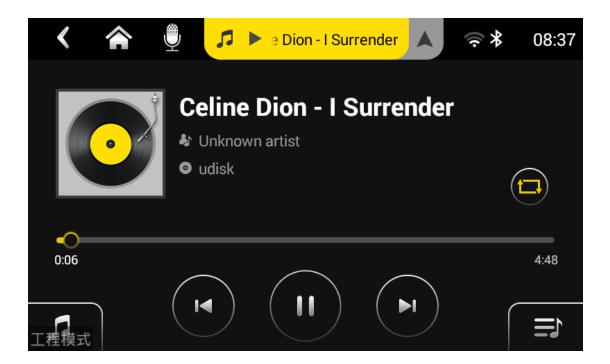


Fig 8.3.2-1 Home page of music player

Three ways to review the local playlist: list, singer and album, as shown in 8.3.2-2.



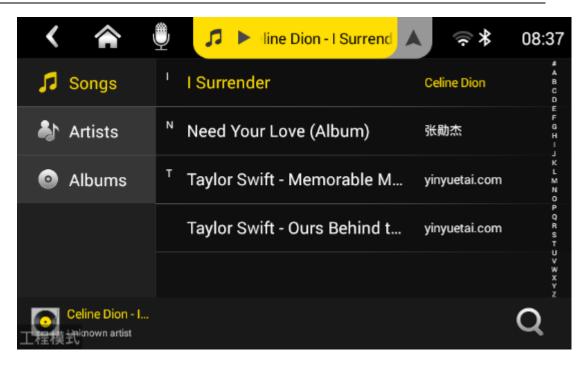


Fig 8.3.2-2 Page of local playlist

Search function: input song name, artist or album name; click search icon and songs in the search list for automatic play, as shown in Fig 8.3.2-4; search rule: search local music firstly and then search on the network; the results will be displayed directly.

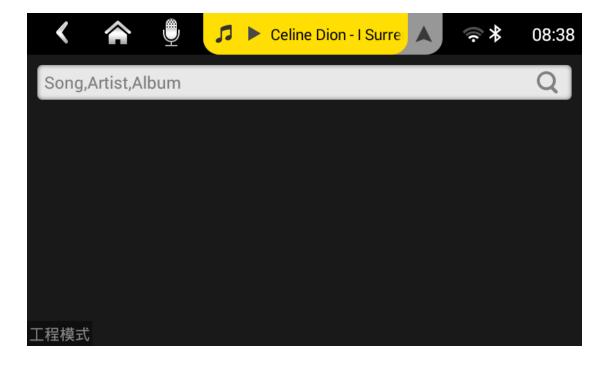


Fig 8.3.2-4 Search page



Gallery-instruction

9.1 Operation

Click [app] button on the desk to open all vehicle applications; select [gallery] on the app list page to enter into the home page of gallery.

9.2 Exit

There are two ways to exit the software:

- Click at the top bar on the gallery application interface can achieve single-step return; click continuously to return to the app interface or vehicle system interface;
- Click Home button directly on the gallery application interface can return to the main interface of vehicle system.

9.3 Basic operation

9.3.1 Function description

After inserting the flask disk, open the gallery to see the inside pictures;

With too many pictures, slide screen left and right to review different picture folders or pictures.

Click to open the folder and pictures; the screen will only one picture; slide the screen left and right to display the previous or next picture. Click big pictures with four operation buttons: return, counterclockwise rotation button, clockwise rotation button and delete button.

Double click big pictures to zoom in or out pictures; use two fingers to slide inward or outward to zoom in or out pictures.

9.3.2 Interface and operation description

Home page of gallery: display the thumbnail of folders of pictures.



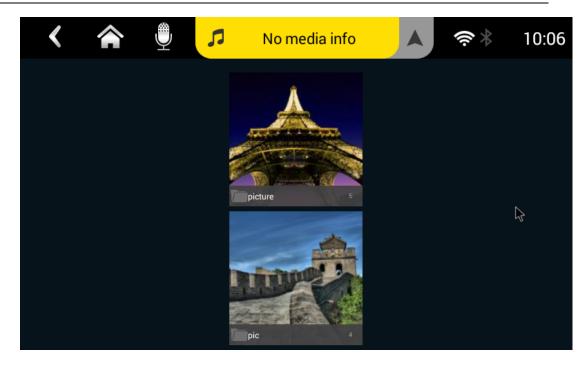


Fig 10.3.2-1 Home page of gallery

After clicking the folder, the thumbnail of folders of pictures will be displayed.

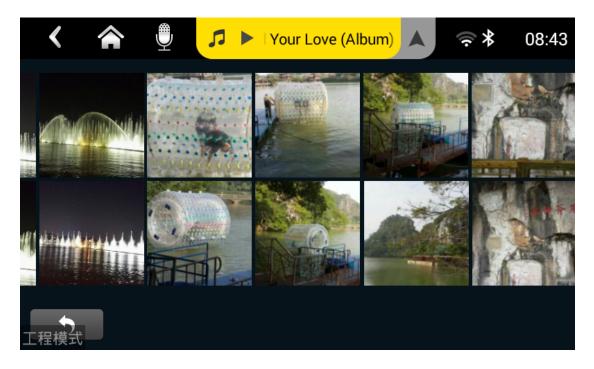


Fig 10.3.2-2 Folder picture display page

Conduct single-click to display one picture:

Zooming operation; double click big pictures for zooming. Use two fingers to slide inward or outward to zoom in or out pictures.



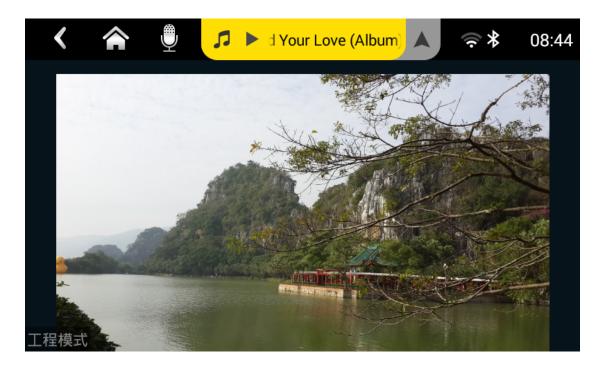


Fig 10.3.2-3 Page of big pictures

Delete page with many pictures

Long-press pictures to select more than one picture and then click the delete icon at the lower right corner; then delete the picture.

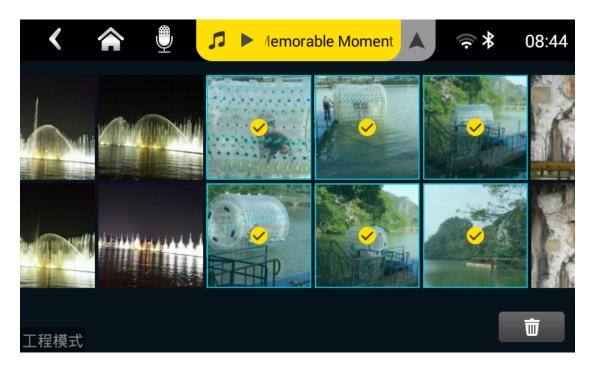


Fig 10.3.2-4 Page to delete many pictures



10

Carplay-instruction

10.1 Operation

There are two ways to enter into the home page of Carplay function:

One: the main interface of vehicle system will be displayed after start-up; select [app] to enter into the app list page; select [Carplay] in the app list page to enter into the home page of Carplay.

Two, the main interface of vehicle system will be displayed after start-up; click [Carplay] on the main interface directly to enter into the home page of Carplay.

10.2 Exit

There are two ways to exit software:

- Click at the top bar on the home page of Carplay can achieve single-step return; click continuously to return to the app interface or vehicle system interface;
- Click Home button directly on the home page of Carplay can return to the main interface of vehicle system.

10.3 Basic operation

10.3.1 Function description

The car owners use Apple's USB data line to connect the vehicle and iPhone; click Carplay button on the vehicle to enter into Carplay function;

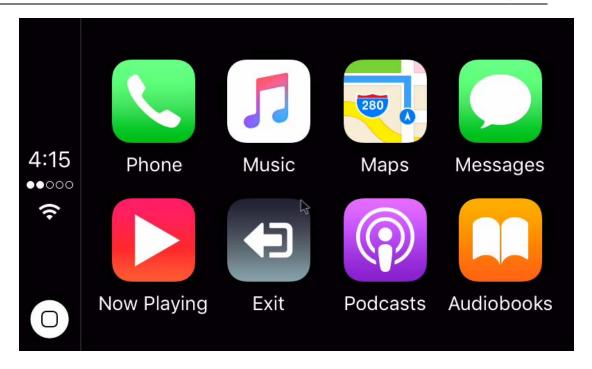
After entering into Carplay, conduct operation on the vehicle just like the normal iPhone;

Description: after connecting Carplay, the navigation sound, USB music, Bluetooth music and Bluetooth phone etc will be banned; only the Carplay sound is allowed.

10.3.2 Interface and operation description

Home page of Carplay: main functions of Carplay







11 About data

The manual file data deletion in the memory card may cause abnormal software use. We assumes no responsibility for all consequences caused by unauthorized file, data or memory card data file deletion.

Remark: it is suggested to conduct data backup before deleting the data in the memory card.



12

About network application

This vehicle system can connect to WLAN network; please refer to the linked network cost for traffic charge;

This vehicle system can connect to WLAN network through portable hotspots sent by phones in places without network; please refer to portable hotspots' phone traffic cost.



13 About driving safety

The drivers shall not operate this machine during the driving process in case of affecting safe driving to cause traffic accidents (It may violate local laws in some countries and regions).



14 Postscript

So far, you have understood the simple and easy-to-use vehicle system software with comprehensive types. You can operate the machine to experience convenience and rapidness in your driving life brought by the intelligent vehicle system and enjoy endless pleasant brought by high-end technology! Have a smooth and safe driving!

There will be no further notice for any discrepancy between the screenshot in this manual and your practical version due to continuous software upgrade.

15 FCC Caution

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

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

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