User's Manual

Before operation, please carefully read the instruction manual

Android4.1.1

IN CAR MULTIMEDIA&GPS SYSTEM

Touch Screen | TV | DVD VIDEO | Radio AM/FM | Bluetooth | USB | SD | iPod | GPS

CATALOTUE

The use of certain features of these devices depends on your network service provider's network settings and performance. In addition, due to the different network service providers, some certain functions of this device may not be able to apply or restrict to apply. And please contact your network service provider for consulting the network functions and availability of this device

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CLASS1 LASER ⚠

This mark indicates that the product used a label which is classified CLASS1 laser, indicating that the device uses theweakest level of laser beam, and there is no risk of radiation outside the unit.

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1. Quick Review

Warning: Before using this device, please read the manual safety and law information.

1.1 Turning On and Turning Off

Turning On	When you plug in the car keys, switch on ACC START or the car's ACC power, the device will be automaticallyturned on, displaying the boot animation LOGO.
Turning Off	When you take off the key, switch to ACC OFF, or turn off the car's ACC power, the device will automatically beshut down.

1.2 Panel Function Button

Icon	Button	Funciton
PWR/VOL	Power/Volume	①. In the off state, press this button short, the system is turned on. ②. In the boot state, press this button short, the system becomes mute; press this button, the system is shutdown ③ Turn this button clockwise, the volume is increased ④ Turn this button counterclockwise, the volume is decreased.
HOME	Main Interface	Click to enter into main interface.
MENU	Main Menu	①. In each function, extended manipulation of information, press the MENU key to pop up; ②. In the main interface, press the MENU key for the system to quickly set function
BACK	Back	Click to back to the last interface.
NAVI	Navigation	Click to enter into GPS navigation interface.
DVD	DVD Play	Click to enter into disk play interface.
PHONE	PHONE	Click to enter into Bluetooth telephone interface.
RADIO	RADIO	Click to enter into radio interface for receiving FM1/FM2/ AM radio
TUNE	Compound	①. in the audio and video playback interface, up / down one player ②. In the radio interface up / move down frequency
⏏	In/Out Disc Button	disk in and out
SD	SD Media Card slot	Insert the appropriate memory card ,multimedia file slotsystem can read the card
USB	USB Socket	①.Connect other devices by USB socket. ②.Connecting an external WIFI/3G dongle
RESET	Reset Button	Click reset button to reset system and re-start.
MIC	Microphone	Receive voice from bluetooth telephone call.

Remark: All long press means press time at least lasting 3 seconds; Button and socket is different according to different car types, please take real type as standard.

1.3 Tips for Using Touch Screen

When using the touch screen, you can use several ways to perform corresponding operations on the device.

1.3.1 Clicking Function

You could select an application icon or option on the screen to realize clicking function. For example, click Bluetooth to enter into bluetooth application.

1.3.2 Pressing Function

You could press the current user interface, icon, inputting column by pressing function. For example, press on the blank area of the main interface, then comes a pop-up menu, you could perform some function

1.3. 3 Dragging Function

Drag the touch screen or press the scroll bar for up and down operation. For example, browse the contact list of the bluetooth phones by dragging function.

1.3.4 Zooming Function

When browsing the web, click the screen twice, then you could zoom in or out the page content. Or you could press the screen with two fingers by control the sliding distance between the fingers to zoom in or out the page content.

1.4 Main Screen

You can use the touch screen operation to use the various functions of the device. This equipment has a total of five main screen, left or right sliding can be switched with each other. Any interface press the HOME physical buttons on the panel to return to the main screen interface, and display the application

 icon in the main screen interface, click any application icon to open the program.

Note: You can add the freedom of the space of the main screen or Remove Programs icon to see equipment Basic Settings section. Click the application icon; you can view all of the programs of the equipment.

1.5 Status bar indicator

Icons on the left top of the screen are notifications for messages and events; Icons on the right top of the screen are device status indicator.

If there is new message, it will be displayed on the status bar, slide your finger gently from the status bar, all prompts would be displayed. Then you could click the message and view the content.

Indicators the left	Description	Indicators on the right	Description
📶	Network signal strength	📶	Network signal
😃	New Message	🔌	USB connection instructions
📶	WIFI signal indicator	4:25 PM	Current Time indication

Tip: You can tap and hold the status indication bar to view the current day.
Note: The device software is under upgrading, the status indicator may be different with your device; please refer to the actual device software.

1.6 Text Entering

When edit text, you could use existing method of entering and Android keyboard to edit English, numbers, and symbols etc., such as editing message, searching key words etc.

Tip: The display format would be different according to different status and keyboard of the entering, please refer the actual one

1.6.1 Switch on the Entering Method
Open the text editing interface
Click in the editing area, then the editing menu would appear.

According to the input method, input method you want to use the midpoint of the input method menu, you can choose the Android keyboard or install third-party input method.
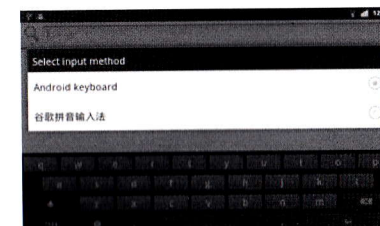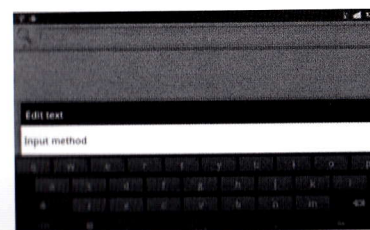
1.6.2 Android Keyboard Input

Switch the input method into Android keyboard (see switch input method)

Remark:

1. You can click the number sign key [?123] to switch to numbers and symbols input mode.

2. Click [↑] to switch letter case.
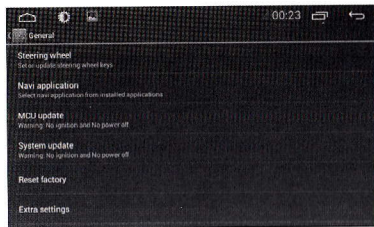
2. Function Operations

2.1 General

2.1.1 Steering Wheel

Users could set the steering wheel according to hint.

Note: Steering wheel interface is special for cars with buttons, but some cars' steering button are not able for study but by "can", such as Ford MONDEO

Application>Setting

    > General Settings

    > Steering wheel Settings

VOL+	VOL-	MUTE	MODE
HOME	MENU	BACK	NEXT
PREV	ANSWER	BRIGHTNESS	NAVI
RADIO	EJECT	AUDIOOFF	DISC
START	RESERVE	RESERVE	CLEAR

Steering Wheel Interface

a. First to click "Start"
b. Click the buttons as you want.
c. Click the corresponding button on the wheel, if the study displays successful, there will be a change on the corresponding color on the main screen.
d. Repeat step 1 and 2 till you complete all the buttons' setting on the steering wheel.
e. Click "END" to ensure that the steering wheel setting is completed. If you want the steering wheel button to re-learn, press the [CLEAR] Repeat a, b, c, three steps

2.1.2 Screen Calibration (For resistive screen only)

Applications> Settings

    > General Settings

    > Touch screen calibration

Enter the calibration screen to calibrate the screen interface, please click as close as possible to the cross until a successful calibration, then exit the calibration screen.
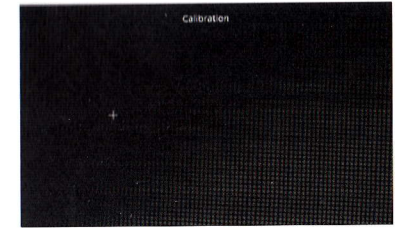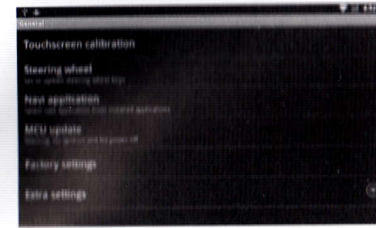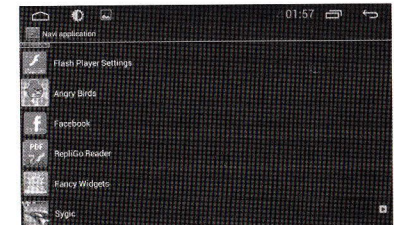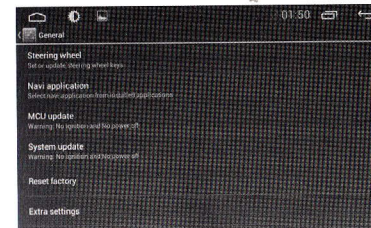

2.1.3 Navigation application

Select appropriate map application, then it can beassociated with the navigation button on the physical andnavigation icon on the main screen.

Applications> Settings

> General Settings

> Navigation options

> For example: GO

2.1.4 factory settings

When the system is unable to work or there is problems after user used the system, it can be restored to the factory settings. Once it's restored to factory settings, all the third-party software would be deleted, and the current system settings would be lost. For navigation software, justneed to install corresponding APK. Please operate carefully.

Applications> Settings

   > General Settings

    > factory settings

2.2 Navigation

2.2.1 Navigation Software Installation

1. Copy the application program with suffix name "APK" to SD card or U disk. There are two installation methods:

①.Click into the document management interface to find SD card or U disk directory and select "APK" and click install directly.

Applications> File Management Interface
> Expansion card or U disk
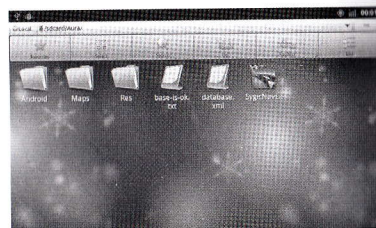
File Management Interface

②. Extra Interface->Application Program->Install

Application Program
Select the application program with suffix named "APK"
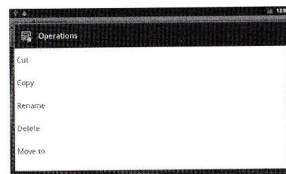and install.

Application Program Interface

Application > Settings
> Applications
> Application Program Installation

Note: Please copy the navigation map software to the system storage memory first, and then install the navigation

APK. Steps are as follows:

①. Insert navigation data packets to the SD card or a U disc

②.Start the ES file browser (or other document management software)

③. Enter the" /sdcard/Favorites/mnt/usb/mmcblk1p1"(SD) or" Favorites / mnt/usb/mmcblk1p1"
(U-disk) directory, find the navigation packet directory (forexample: APK (3rd party application)),
long press the directory and select "Copy" in pop-up menu
④. Go back to the "/sdcard/" directory, choose the paste command
⑤.Waiting for the copy is complete (30 minutes approximately /3.5G)

2. After successful installation required to choose you need to use the navigation application program, association panel on navigation physical keys NAVI and interface of the main navigation application icon (see 2.2.4navigation options).

2.3 Radio

2.3.1 RADIO

Press the RADIO button on panel or click the icon on the main menu to enter the radio interface, the specific functions and operations are as follows:
Radio Interface
The functions of Icons in the radio interface are described below:

Icon	Button Name	Function Description
BAND	Band Switching	Click BAND to switch between mode FM1/FM2/AM.
▶️	Search Channel Backwards	Click to search channel backwards then stopwhen find clear channel
◀️	Search Channel Forwards	Click to search channel forwards then stop whenfind strong and clear channel.
SCAN	Scan all Channels	Scan automatically and save channels(Coupled with a scanning radio signals broadcast for 10 seconds, no signal of the radio scan play 3 seconds)
LOC DX	Locate and DX	Change between locate and DX models.
EQ	Audio settings	Click enter the EQ setup
87.50 MHz	list of radio stations	List of radio stations, according to the storage for the playing frequency point
❮	Forward tuning	Forward tuning radio
❯	Back tuning	Backward tuning radio
🏠	Main Menu	Click to back to main menu.
↩	Back	Click to go back to last interface.
AS	Automatically search	Search and save band automatically.

2.3.2 RDS

Radio interface with RDS Icon details as below:

TA	Traffic Announc ement	Click TA symbol to light up, it can source automotive the station which can broadcast traffic information, the system will source once every minute, it will stop to display traffic matter when we get the news; and it will directly go back to the situation after traffic information displays.
AF	Alternative Frequencies	Click AF symbol to light up , RDS can swift to the station which has stronger signal when the frequency is weak, but the content of RDS station will not change, just move to the other frequency. Meanwhile it only can source RDS station.
PTY	Program Type	Click PTY symbol to light up , RDS radio display type When the received RDS station, the corresponding PTY information is automatically displayed.
REG	Regional Link	Click REG symbol, it will only search the RDS stations with the same national area code (PI 8-bit representation of the high country area code) of the current RDS station. If REG is not highlighted, you can search RDS station while ignoring the area code (excluded the high 8-bit PI code)

2.4 Bluetooth Wireless Connection

You could create a wireless connection between a mobile phone and this device for data exchange.

Note: ①.There may be prohibition or restriction for Bluetooth devices, please abide by local laws.
②.In order to ensure bluetooth security by the greatest degree, you should in safe and non-public place when connecting a bluetooth device.

2.4.1 startup bluetooth application

Under the default status, the bluetooth would be turned on when the power is connected. Panel"PHONE" key toquickly enter the Bluetooth interface;

2.4.2 Bluetooth pairing

The whole information of the Bluetooth interface, the mobile search auto-complete matching (the default passkey: 0000) Matching refers to the mutual recognition process of two Bluetooth devices for the first communication. After the first connection, the subsequent communication connection will automatically pair and not have to pair every time. (depending on mobile phones).

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Press [🔍] in Bluetooth pairing interface, it will get into the status of the Bluetooth search mode and this machine is searching for Bluetooth devices around, press [🔍] again will automatically terminate the search state.

Choose the Bluetooth device name on the search results to match connection. It will automatically after the connection is successful jump to the matching list, and there will be a Bluetooth icon besides the successful connected Bluetooth devices

Note: The following operations are performed in the Bluetooth pairing success and connect under the conditions of operation.

2.4.3 Bluetooth Phone Book

In the Bluetooth interface, click [📱] to enter the Bluetooth Address book interface. And follow the [⬇] download the phone book
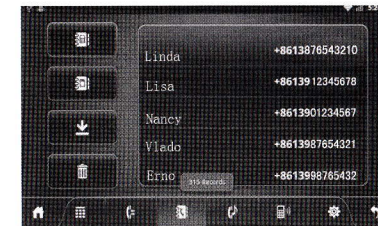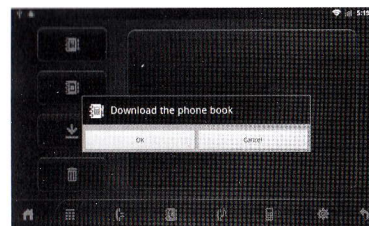
A list of dial-up operation when long names and numbers are used to scroll the display

Bluetooth Phone Book Interface

[📇]	Download the phone book Again after the download is complete, click the phone is the search function
[📇]	Download Mobile phone SIM card phone book Again after the download is complete, click the phone is the search function
[⬇]	All download mobile phone book
[🗑]	Delete all phone book imported

2.4.4 Phone

2.4.4.1 To achieve the dialing function via Bluetooth

In the Bluetooth interface, click [⊞] to enter into the Bluetooth Dial interface.

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①. Click numbers on the interface, if the input is wrong, click ⬅ to delete

②. Click 📞 after entering phone number;
   Click 📞 to end up the call.

③. Are on a call, press the 🔊 switch to the phone call, press 🎤 Mute for MIC.

④. Function keys on the panel are unavailable when in the call; the function keys return to normal after hang up.

Bluetooth phone Dial Records Interface

2.4.4.2 To achieve the called function via Bluetooth
When the mobile When phone is connected with Bluetooth device and there is an incoming call, the interface is divided into two situations:

①. In the Bluetooth Application Interface
②. In other function interfaces
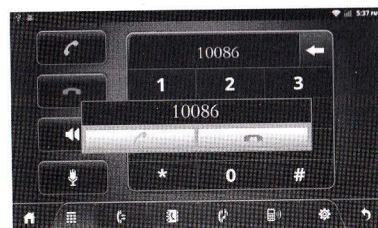
Note: Click 📞 the call is pickup the phone, and click 📞 means to hang up, the small window will automatically disappear.

2.4.5 Call Record
In the Bluetooth interface, click 📞 to enter into bluetooth call history interface.

Click for doing dial operation.

Remark: When the names and numbers are long, they would be displayed rollingly.

|	
📞	Missed calls
📞	Received calls
📞	Dialed calls
🗑	Delete all call information

Call recording interface

2.4.6 Bluetooth Music
In the Bluetooth interface, click 📞 into Bluetooth Music Interface.

When connected with bluetooth mobile phone, it can operate play/pause/down music function.

Note: Some kind of mobile phones need to start playing music player for bluetooth music when using bluetooth music function.
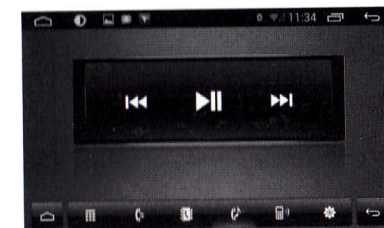
Bluetooth Music Interface

2.4.7 The whole Bluetooth hardware settings
In Bluetooth interface, enter the Bluetooth settings screen.

Device name	The head unit name when searching on phones
PIN password	Pair settings
Auto connect	Automatic connection
Auto answer	Automatic answer
🏠	Click to back to main menu.
📱	Click to go back to last interface.
↩	Back to matching the main interface
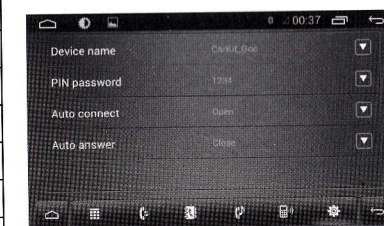
2.5 3G Application
Applications> Settings
        > Wireless and Network
        > Mobile network
        > Access Points

2.5.1 Allow data roaming
Applications> Settings
        > Wireless and Network
        > Mobile network

①. Click data roaming, select OK.

②. If the recognition is successful, the access would automatically identify the type of 3G device to populate the appropriate access automatically, as shown below:

Note: please confirm data roaming open, otherwise you cannot use the 3G function
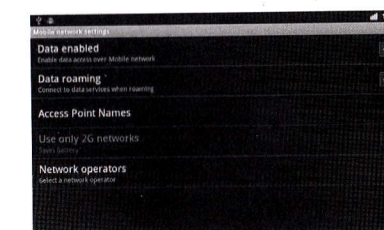
2.5.2 Set the access point information
Use 3G, please 3G module connected to the USB interface, and available to confirm insert a 3G card.
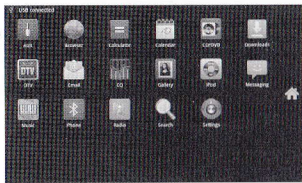
a. Enter the system main interface,
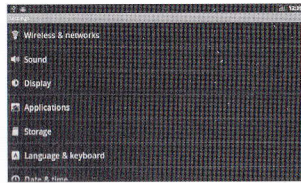
b. Select the "Settings" to enter the main interface.

c. Select "Wireless networks", access to the network selection screen.
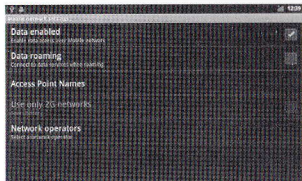
d. Select Mobile networks ", enter the mobile network settings of the main interface,
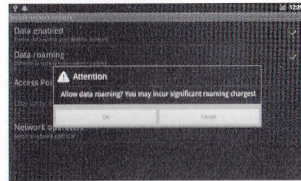
e. First make sure the " Data roaming " is selected, if you have no choice, point the" Data roaming "pop-up prompt menu, select" Ok

f. Results shown in Figure 7. Choose the successful:

g. Set the Access Point Names ", enter the name of the network access point settings to the main interface.

h. Press the "Menu" button on the machine panel, pop-up menu option.
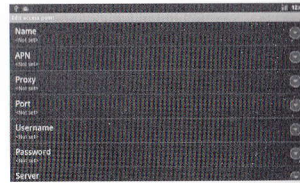
I. Select "New APN" new "APN" into the "APN" to set the main interface.
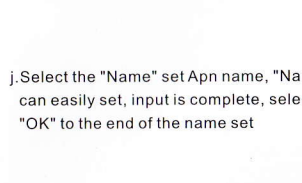
j. Select the "Name" set Apn name, "Name" can easily set, input is complete, select "OK" to the end of the name set
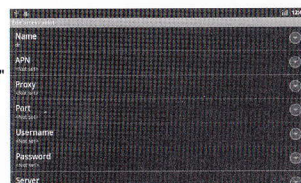
K. Select "APN", enter "the Apn access name in the Chinese mainland of China Unicom's 3G the APN settings for:" 3gnet "in Hong Kong, Macao and Taiwan and foreign, should be consulted local 3G network supplier, enter the correspondingAPN value.

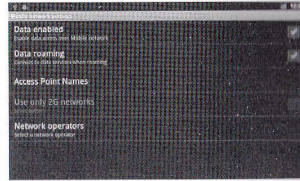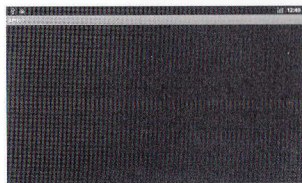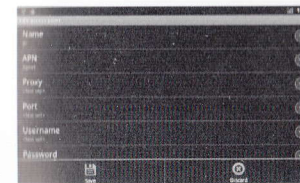l. Press the "Menu" button on the machine panel, pop-up menu option.

m. Select "Save" to save the settings content, and return to the main interface of Apn settings
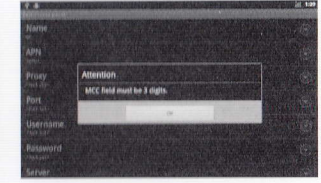
n. When the following interface pops up, make sure that Step 1 is complete, press Home to return to the main interface, then repeat 1-15 steps:

o. In the Apn the main interface, select New APN network behind the circle, so that it is selected can.

p. Back to the main interface, the3G network has opened, the search to the 3G signal, can use3G network.
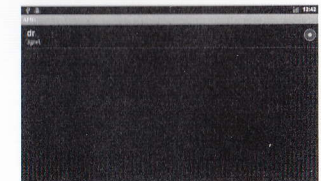
2.6 Multimedia

2.6.1 Equalizer

Applications > Equalizer

Click **EQ** equalizer application icon into the equalizer interface. Or clickto enter into EQ Setup operation in all audio or video playing interface. Equalizer settings interface is divided into two functions: namely, equalizer and sound field settings function.
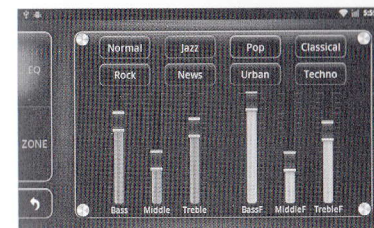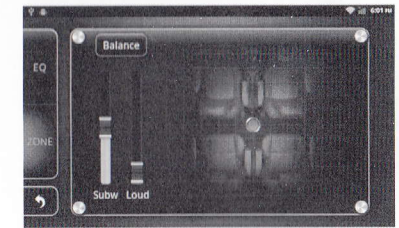
Equalizer settings interface   Balance Setup Interface

① In the equalizer settings interface provides 8 kinds of audio playback mode choose:
Note: In the Normal mode, users can customize effects model through the effect adjuster.

② In a field setting interface the user can freely adjust the bass and loudness of the contrast, the user can also on the front left, front right, left, right after the four angularly audio settings, as shown below: **Balance Setup**
Note: the subwoofer adjustment is only effective when it is linked to external 5.1 amp.

2.6.2 DVD Play

Insert the DVD disk the system will automatically enter the DVD interface and read the disk information automatically when a disk is detected and then start to play normally.

DVD Play Interface

Function details as below:

Icon	Button Name	Function Description
▶ǁ	Play/Pause	When playing, click it to pause. When pause, click it to continue playing.
▶▶ǀ	Next Track	Click to play the next track or next chapter.
ǀ◀◀	Last Track	Click to play the last track or next chapter
▶▶	Fast forward	Click to fast forward increasingly as by 2X / 4X / 8X / 20X DVS:Click to fast forward increasingly as by 2X / 4X / 8X / 16X / 32X
◀◀	Fast Backward	Click to fast rewind increasingly as by 2X / 4X / 8X / 20X DVS:Click to fast rewind increasingly as by 2X / 4X / 8X / 16X / 32X
›	Extended function	Used to eject the expansion function
TITLE	Title	Click to show title (need disk support)
↻	Cycle Play Mode	Click to set up playback mode, DVD: Chapter cycle /heading cycle / full catalog circulation / cycle cancellation; VCD : single cycle / all cycle / cycle cancellation.
✕	Random play mode	Options for ON and OFF, ON, switch on the next song, random play
◁))	Channel Switch	Click to switch in different languages and audiotracks (need disk support).
SUB.T	Subtitle	Click to switch subtitle display(need disk support)
EQ	EQ Setup	Click to enter into EQ setup interface.
⌂	Main Interface	Click to back to main interface
↩	Back	Click to back to the last interface.

2.6.3 CD Player

Insert a CD disc, the system will automatically enter the CD interface, when a disc is detected, it will automatically read the disc information and start normal play.

CD Play Interface

Function details as below:

Icon	Button Name	Function Description
▶ǁ	Play/Pause	Click to play or pause.
▶▶ǀ	Next Track	At one time to play the next song, press down roll list for tracks
↻	Cycle Play Mode	Click to set up playback mode
✕	Random playb mode	Click to set the random playback mode
ǀ◀◀	Last Track	Click to play the last track or next chapter.
EQ	EQ Setup	Click to enter into EQ setup interface.
⌂	Main Menu	Click to go back to main menu.
↩	Back	Click to go back to the last interface.

2.6.4 iPod Play

Application> iPod

Click the iPod application icon to enter into the iPod play interface, just as shown below.

iPod Play Interface

Icon	Button Name	Function Description
▶❙	Play/Pause	Click to play or pause.
▶▶❙	Next Track	Click to play the next track.
❙◀◀	Last Track	Click one time to replay the current track; Click twice to play the last track.
▶▶	Fast Forward	Press to fast forward.
◀◀	Fast Rewind	Press to fast rewind.
↻	Cycle Play Mode	Click to set up play modes: sequential play,single cycle, the whole catalog circulation.
✕	Random play mode	Click to start random play mode or cancel random play
Artists	Artist	Click to play the iPod's song in the form of an artist
Albums	Album	Click to display the iPod's song in the form of album.
Songs	Song	Click to display all the songs in the iPod.
Playlists	Play List	Click to display the listed songs in the iPod.

2.6.5 Audio Play

Audio player supports the following formats:
mp3/aac/flac/wav/amr/m4a/ogg
Application>Music

Click music application icon to enter into the music player interface, as shown below:

Artist Interface

Icon	Button Name	Function Description
▶❙	Play/Pause	Click to play or pause.
▶▶❙	Next Track	Play the next track.
❙◀◀	Last Track	Play the last track.
↻	Cycle Play Mode	Click to set up play mode: sequential play,single cycle, the whole catalog circulation.
✕	Random play	Click to start or cancel random play.
Artists	Artist	Click to play all the song as if to be performed by an artist.
Albums	Album	Click to display all the songs in the form of album.
Songs	Songs	Click to display all the songs.
Playlists	Play List	Click to display the most recently added songs.

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2.6.6 Video Playing

Supporting form of the video player: mp4/avi/wmv/3gp/flv/saf/mov/mkv/mpg

Application >Video

Press Video application icon to enter into video playin interface, take a photo for example.
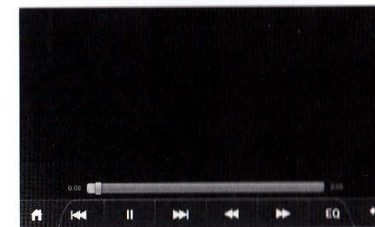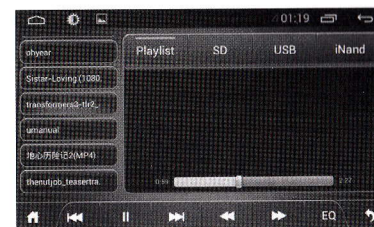
The detail of the button function of video playing interface

Icon	Button Name	Function Description
❙❙	Play/Pause	Press Pause when play / Press Play when pause
▶▶	Forwards Fast	Click to forwards fast
◀◀	Backwards Fast	Click to backwards fast

2.6.7 Digital TV

Application > Digital TV

Click analog TV application icon into the digital TV interface

The details of digital TV function interface are as below.

Note :

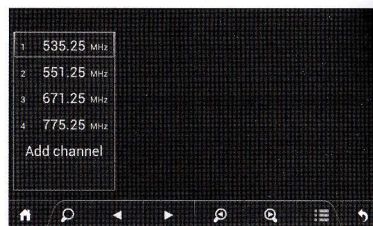| Icon	Button Name	Function Description
🏠	Menu	Click to back into menu
↩	Back	Click to back into last content
EQ	EQ	Click to enter into EQ interface

For more details of description of the digital TV, please refer to the digital TV instruction.

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2.6.8 Analog TV

Application > Analog TV

Click Analog TV Icon to enter into Analog TV playing interface, details as below.

Icon	Button Name	Function Description
🏠	Main Menu	Click to back into menu
🔍	Auto search	Automatic search and save
◀	Last channel	Switch to last channel
▶	Next channel	Switch to last channel
🔍	Search previous channel	Click on the search on previous channels
🔍	Search on the next channels	Click on the search on the next channels
☰	The list	Search list
↩	Back	Click to back into last content

2.7 AUX IN Function

To ensure after video source under the normal state when it works.

Application > AUX IN

Press screen to come out a hide menu, click **EQ** to enter into EQ setting interface, it can adjust EQ effects,click ↩ to back into last content, click 🏠 to back into system menu.

2.8 Rear View

Auto start reverse gear, such as with a mirror, the system switches to the rear-view mirror screen output automatically,audio output sound still; if not equipped with rear-view mirror, the system remains the same player
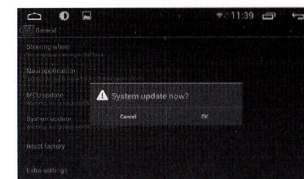
3 Firmware Upgrading

3.1 preparing for upgrade

1. Firstly, format your SD card for what you use to firmware upgrade

3.2. Update MCU

3.2.1 copy "318a2e70-44bf-11e1-b1cf-000c29ba27c0" to the root directory of SD card and Inserted into the machine SD card slot.

3.2.2 Start to update MCU(Settings->General->MCU update) , click OK

3.2.3Wait for the upgrade is completed. The system will automatically restart after the upgrade is completed, please don't Ignition or shut down during the upgrade process.
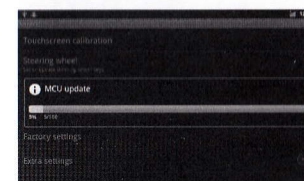
3.3 Update system

3.3.1.copy "u-boot-skip.bin、 uImage、 uramdisk.img、 system.img" to the root directory of SD card , and Inserted into the machine SD card slot.

3.3.2. Shutdown

3.3.3. Press and hold any panel buttons , and boot , the system will enter the upgrade interface automatically.

3.3.4 The system will automatically restart after update.(The system will enter the touch screen calibration interface after the restart, please complete it.)3.3.5、 If one or more errors occur , please Ignore andrepeat step 2 to step 4.

3.4. Update DVD

3.4.1 Burn "dvdrom.bin" to CD-ROM， and inserted into the machine dish mouth

3.4.2 Wait for the update is complete.

3.4.3 Eject the disc

4. Trouble handle

When your equipment met troubles, please check the problems as below.

Item	Problem	Solution
1	Unable connect to the network	①.See 3G Card is installed correctly ②.to make sure the correct and proper 3G terminal operator's SIM card ③.weather launched 3G card data ④.Mobile data roaming setting is connected or not. ⑤.APN weather selected ⑥.Whether 3G card arrears
2	It can't to save and mention "MCC" must 3 letter.	Check the 3G card install right or not.
3	Can't install applications.	①. Verify that the install application suffix is named "APK" ②. Enter into Setting to select unknown sources
4	When the Bluetooth paired success, sometimes will be mentioned connect failed	①.Some cellphones with Android system may occur this problem at the first connection. Please just find the pairedn device in matching list and then connect them once more. ②. The unsuccessful connection is compatibility issues between cell phone and Bluetooth. If this occurs, please check the options in pair list of your cell phone. And you will find that the setting of Bluetooth Media and Mobile Media has been turned off. Turn on them and the connection will be successful.
5	How to install applications	First, please copy the application files with suffix ".APK" to your SD or U disk. And the following are installation methods: 1. Click into the document management interface to find the SD card or U disk directory, and then select the ".APK" suffixed application file and click to install. 2. Find the Setting interface—>Applications—>install application, 3. select the ".APK" suffixed application file and click to install.
6	How to uninstall users APK application	Interface Setting—>Applications—>Installation Applications—>Uninstalltion Applications. To click the unistallation APK Applications
7	Radio can't research channels	to check the radio antenna whether connected and have signal before use it.
8	No voice	System is muted or not
9	Media can't be recognized from SD card.	prohibit hot-swappable SD card
10	3G、WIFI can't be recognized	prohibit hot-swappable 3G/WIFI
11	MUSIC, RADIO and third-party application mixes, can not turn off the MUSIC, RADIO	Long press panel Back to exit the system MUSIC RADIO mode, again into third-party applications can

5. Specification

Operating voltage: DC 12V
Operating voltage range: 10.8V ~ 16V
Maximum operating current: 10A
Installation size: 167*178*100mm
Installation angle: The front and rear inclination is less than 30°

FM radio part
Frequency range: 87.5-108MHz (Europe)
87.5-107.9MHz (America) 36 stations preset
Sensitivity (-30dB):12dBu
SNR (-50dB):15dBuV
Frequency response range: 30Hz~15KHz (±3dB)

AM radio part
Frequency range: 522-1620KHz (Europe)
530-1710KHz (America) 18 stations preset
Sensitivity (SN=20dB): 20dBuV
Mirror-image suppression: 60dB
Frequency response: 50Hz ~2KHz (±3dB)

DVD/CD play part
Compatible discs and format:
DVD-R, DVD-RW, DVD+R, DVD+RW, CD-R, CD-RW, CD-DA, MP3, WMA, SVCD, VCD, MPEG, JPEG
Audio SNR: 85dBA
Dynamic range: 95dB
Frequency response:50Hz ~2KHz (±3dB)
Digital audio sampling: 24bit
Electronic shock protection (ESP):
DVD   2~3 seconds
CD-DA   10s
MP3   100s
WMA   200s
Mechanical shock protection: 10~200Hz, X/Y/Z:1.0G
Power output: 4*45W, impedance 4 Ohm
SRN: 70dB

Display screen part
Screen dimension:7" / 6.2"
Screen type: TFT
Response time: Response =30ms, fall =50ms
Pixel: 384,000 Pixels
Angular field: Top view =65 ,bottom view =40 ,
Left view =65°, Right view=65°

Ambient temperature
Operating temperature:-20~+70°C
Storage temperature: -30~ +80°C
Operating humidity: 45%~ 80% (Relative humidity)
Storage humidity: 30%~90% (Relative humidity)

Package Contents
Car PC	1
GPS antenna	1
Remote control (optional)	1
Metal fasteners and screws	1
iPod and USB cable	1
User manual	1
WIFI dongle	1
Power cable	1
Magnetic Digital TV antenna (optional)	1
User Manual	1