


USER'S MANUAL



LEXUS Multimedia
Entertainment System |  **ANDROID**

Printed version: TQHW-A

The manual is for reference only. Subject to our available products!

EXPERIENCE AMAZING

Functional Parameter

Operating System	Android 4.2.2/Android 6.0
CPU	Ac8227 (Quad Core Cortenx A9, 1GHz)
RAM	1GB/2GB DDR3
ROM	16GB /32GB EMMC5.0
Resolution	1280x480
System language	Multilingual
Bluetooth	Bluetooth hands-free, Bluetooth music, synchronous address book
Image processing	Hardware decoding, OPENGL, ES, 3D acceleration
Pictures format	BMP, JPEG, GIF, PNG
Audio format	MP3, WMA, APE, FLAC, AAC
Video format	MP4, AVI, WMV, RMVB, FLV, MKV, MOV, TS
Storage extensions	max up to 64G U disk, 32GB Micro SD , 1TB hard disk 2XUSB, 2XMicro SD slot,
Function expansion	Support audio, video, TV, USB and other inputs and outputs
Mirror link	Support Android/iOS system, small screen to big screen
Audio power amplifier	DSP audio processing, EQ free adjustment

Preface

Thank you for using our Android Multimedia Entertainment System!

The more familiar you are with your vehicle, the better control you will have on the road.

We therefore strongly suggest:

Read this User's Manual before starting off in your car.

- 1.This product is powered by 12V vehicle power (negative to ground), please do not install it directly on other 24V vehicles, or it will bring damage to the unit.
- 2.To avoid violation of traffic regulations, do not operate machine or watch the entertainment programs while driving.
- 3.To ensure your safety drive and make sure the unit works well, we suggest that ask professional auto techs for installing; Do not disassemble or repair the unit by yourself; Any installing issue, please feel free to contact us or your seller, This unit has a lot of precise electronic components, non-professionals are not allowed to disassemble or update it.
- 4.Do not put this unit in wet environment or water to avoid electric shock ,damage or fire caused by short circuit.
- 5.The navigation screen has a precise electronic structure, please don't tap the screen by force.
- 6.The rear view camera is only for assistance, for your safety drive, please notice the rear view mirror and observe the surrounding environment, our company would not be responsible for any losses occurred by using rear view camera.
- 7.Do not expose the unit directly to the environment of wet, dust, steam, soot, direct sun and so on.
- 8.Do not use thinners or other chemical cleaners to clean the unit. Soft cloth is preferred to remove dust and dirt.
- 9.Please keep the unit away from the overheated and cold place. The operating temperature is limited to the range from -20 to 60 centigrade.
- 10.This manual is for reference only. Subject to our available products! We will continue to develop new features, related update information will be pushed to your unit in proper time.
- 11.Copyright of this manual is reserved and protected, any photocopy or print should be allowed by permission.
- 12.We reserve the right to interpret the manual and related information in accordance with the law.

(Note: this manual is very accurate in its preparation. There may be errors and omissions due to printing. Thanks for your understanding!)

Thanks for using our products, we will continue to develop product with new functions, your attention is invited...



When the installation is complete, please insulat the unused wires to avoid short-circuit .

Catalog

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Troubleshooting

Read the user's manual carefully before using this unit, if you encounter the following faults, please handle them in accordance with the following methods by yourself. If problems not solved, please contact the nearest repair center authorized by us. For the sake of safety, please do not open the unit, which may cause the electric shock!

Fault phenomenon	Removal method
No images from reversing	First of all, determine the original reversing or the OEM reversing image. If the problem comes with the original reversing, find the original car setting option would solve. If the problem comes with the OEM reversing, make sure the video and the power plug are plugged
Boot failure	Make sure the main power cable is connected, No CAN communicating will result in boot failure.
No video while driving	Go to settings - Brake - turn off the brake test.
Reversing pictures blurred and interrupted	Make sure the camera ground wire is connected, or camera failure.
Navigation low sound	In the navigation interface, you can adjust the volume , or enter settings - navigation settings - volume gain to enlarge volume.
No satellite signals	When navigating, the satellite map will show "your location". If the dot of upper right corner in display interface turns red , which indicates the satellite signal is weak, you should check if the navigation antenna is connected or the navigation antenna position is correct. To receive a better satellite signal, car should be in the open, shelterless space. Navigation antenna should be balanced to the ground and faced to the sky.

Steering Wheel Control



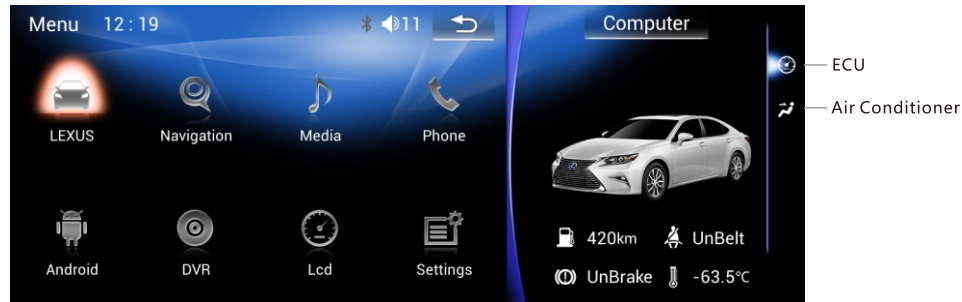
- ① Volume increase : used to increase volume when playing audio or video
- ② Volume decrease : used to decrease volume when playing audio or video
- ③ Previous : used to play previous when playing audio or video
- ④ Next : used to play next when playing audio or video
- ⑤ Mode key : select different mode
- ⑥ Answer key : answer the incoming call/dial in the bluetooth mode
- ⑦ Hang up key : used to hang up call in talk state
- ⑧ Voice control : voice control key (part of car don't support)


Product Features

■ Android quad core Cortenx A9 operating system
■ Original car style UI design interface
■ Full view IPS screen, smart touch
■ WiFi supported, easy access to the Internet
■ Online massive lossless music /1080P ultra clear video playback
■ Support 2.0USB multimedia entertainment, audio and video playback
■ Support reverse video + accurate track + radar synchronous display
■ Support touch type dedicated driving recorder, +360 panoramic video input
■ Support mirror link, small screen to big screen
<input type="checkbox"/> Online real-time traffic navigation make sure the road is clear
<input type="checkbox"/> 1:1 the original luxury-equip style, retaining the original sound effect
<input type="checkbox"/> High speed CAN input and perfect matching with original car system
<input type="checkbox"/> Supports HD VGA video signal input
Note: some parameters may be changed according to the R&D without notice!

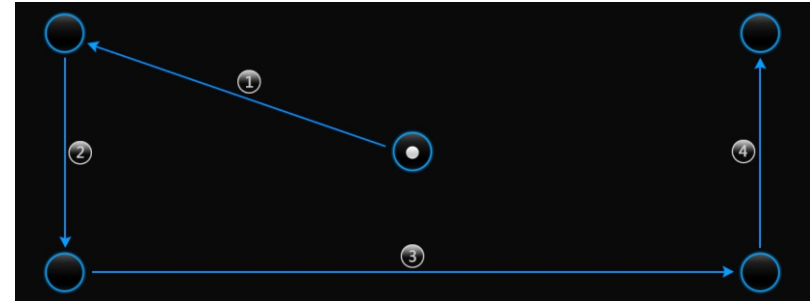
■ Standard function Matching function

Main interface



1. Engine start and enter to the main interface automatically. Click the function icon to enter the relative function, like navigation, bluetooth call, android. Some functions need the help of internet connection.
2. Click  icon, we can switch the original car system. The basic function of original car like Radio, CD player, ECU show here. In this interface we can operate these functions with touch screen or control knob. Touch anywhere of screen take you back to our main interface.
3. If there is no relative device (e.g. DVR) or signal resource (e.g. USB), we can't enter this interface or no information displayed when entering.
4. Part of functions work by connecting with external device.

Touch Adjust



- 1, Click on the main interface > Setup > touch adjust;
- 2, When the touch area of screen is different from the icon position on the interface, you can align screen in this interface;
3. Touch the center point of the dot cursor. When the point cursor moves to another position, click the center of the dot cursor again. Repeat the action to complete the align screen;
- 4, After the align screen is completed, the system will automatically save the result even power off, you do not have to align again next time;
Note: do not operate this function if Not Necessary!

Astern View

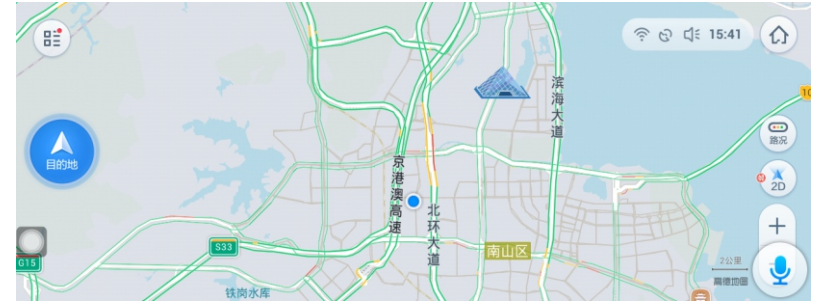



- 1, System automatically load the LOGO screen when boot, if reversing video founded, system will automatically switch to the video and background continues to enter the system.
- 2, In any state of operation, if reversing video founded, system will automatically switch to the video. After reversing, system will return to the former screen.
- 3, When operating the reversing, bluetooth call coming, system will hint the call sound and the reversing video remains.

Setup

Sound	Theme
Sound Effect	Boot screen selection
Volume Gain	Individuation
Mute(on/off)	Assistive Touch(on/off)
Navigation	Door alarm(on/off)
Navigation path selection	Driving Position Set
Auto Switch (on/off)	WiFi
Navigation Gain	WiFi connection
Backlight	Restore Defaults
Backlight brightness control	Restore factory settings
Bluetooth (password: 0000)	Bluetooth emission
Auto Switch (on/off)	Bluetooth emission (on/off)
Volume Gain	Auto switch (on/off)
Bluetooth information parameter	music (on/off)
Touch Adjust	Bluetooth Information
Align screen	Version
Date and time	Factory settings
24 hour system (on/off)	(password: *78#00009* or 666666)
GPS syc time(on/off)	Host video source
Time Zone Selection	Function settings
Language	Android factory set
Multilanguage	Version information view
Backcar	
Backcar video from original camera (on/off)	Upgrade
	MCU version
Backcar track (on/off) Backcar radar (on/off)	CAN version
Brake	Note: version information may be modified as per software update without notice!
Brake detection (on/off)	

Navigation



- 1、Click  in main interface to enter **GPS navigation** ;
- 2、You can select your own navigation map in navigation setting ;
- 3、Open setting>navigation >navigation path select ;
- 4、Navigation application is provided by third party, please refer to their operation manual for operation details.

Navigation troubleshooting

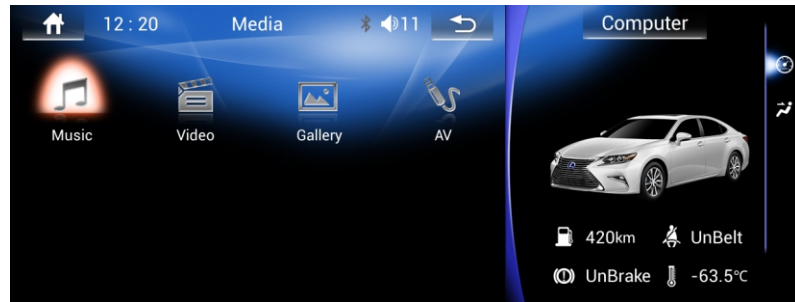
1、GPS troubleshooting


When receiving no GPS or bad signal, please pay attention to the following :
make sure your antenna is faced to the sky without barriers.

The GPS signal may be affected by the following factors :

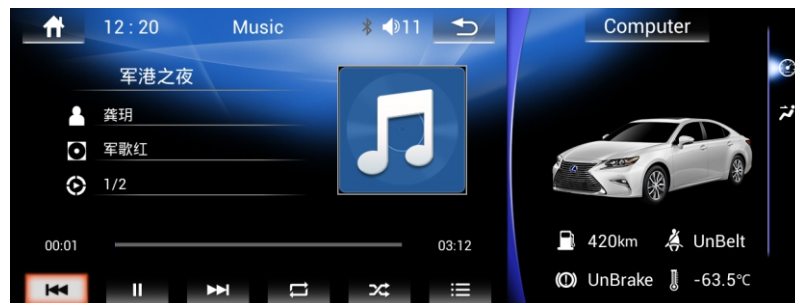
- 1) bad weather. ;
- 2) too many barriers (building, tunnel, viaduct,tree, explosion-proof membrane,etc
- 3) There are other wireless transmission devices in the car.
- 4) shielded by explosion-proof membrane .

Media











- 1, Click the  icon to enter the Media function interface.
- 2, In this interface, we could select the function of music, video, gallery and AV input etc.

Music



- 1, Plug in with USB disk , click main interface>media>music to play local audio.
- 2, For fast forward or rewind playback, you can directly click the play bar to any position you want.

	Touch to exit background and back to main interface
	Touch to quit current function and back to former interface
	Touch this to play previous song
	Touch this to play or pause
	Touch this to play next song
	Play mode : list
	Play mode : shuffle
	Touch this to view menu list

Network connections

In the Android interface, all online applications(music, video,browsers,etc.) work only be internet connected. Two ways to connect internet:

1. **WiFi** : click main interface>**Android**>**Android setting**>**Wi-Fi**>open , system would search for the available signal of WIFI nearby,input the correct password to realize internet connection.

2. **Personal hotspot** : this fuction is to share your cellphone 4G to a free wifi network, once other devices connected this hotspot, input the correct password and they can share your internet connection ;

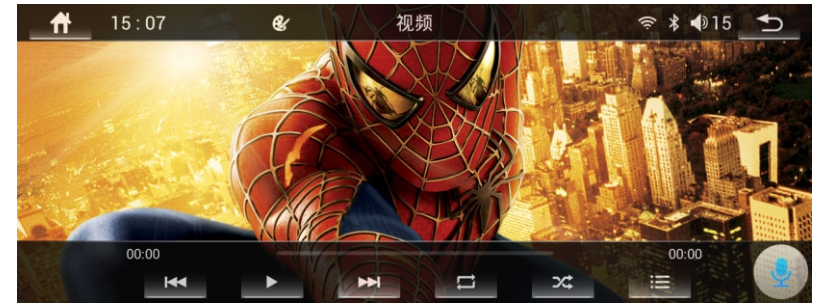
① Take iphone as an example : setting>Personal hotspot>open>set password , then the hotspot is available now , connect to the hotspot and then the applications of android interface are now working ;

② Android cellphone follows the same method above.



Note : hotspot name is based on your personal setting.

Video



- 1, Plug in with USB disk , click main interface>media>music to play local audio.
- 2, For fast forward or rewind playback, you can directly click the play bar to any position you want.







3, Function icons:

	Touch to exit background and back to main interface
	Touch to quit current function and back to former interface
	Touch this to play previous song
	Touch this to play or pause
	Touch this to play next song
	Play mode : list
	Play mode : shuffle
	Touch this to view menu list

图片播放



- 1, Plug in with USB disk, click main interface>media>picture to view local pictures.
- 2, Multi-touch supported, with two fingers touch, you can zoom in or zoom out picture.
- 3, Function icon worked as:

	touch screen to exit background and return to main interface.
	back to previous
	click to view previous
	click to play or pause
	click to view next
	click to view list

Android设置

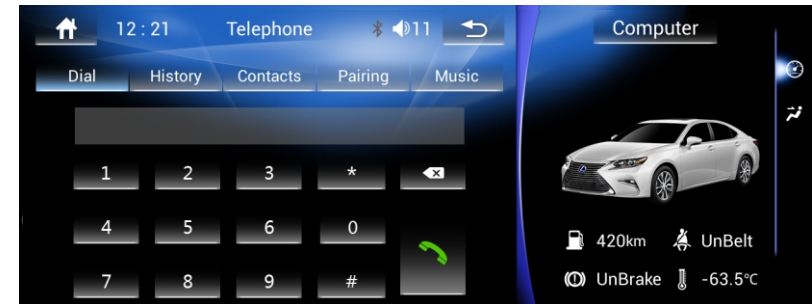
Sound	Theme
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	MCU version
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Brake detection (on/off)	

AUX IN






1. AV input function connect the external multimedia broadcast audio / video to our system, such as: cameras, games etc;
2. When an external audio / video input is detected, the external audio / video file is played directly after entering the video input interface.


Bluetooth






1. **Bluetooth** is a standard wireless communication protocol, the transceiver chip device based on transmission distance, low power consumption, which in addition to both Bluetooth headset functionality, and automatic connection feature, automatic connection refers to the built-in Bluetooth and mobile phone will automatically connect to mobile phone and in the standby mode in open system.

2. **Pairing / connection:** if you need to use the Bluetooth hands-free function, please open your cellphone's bluetooth, when the car and cellphone are connected, cellphone will display device name CAR-BT(name maybe change according to different versions of the software); when the cellphone find the built-in car bluetooth and select it, a pairing code is required to accomplish paring. After successful pairing car will display cellphone bluetooth name (the paring code is: 0000).

3. **Dial / hang up:** you can make a call by cellphone , or by digital button on car screen, touch screen and dial the digital number after finish input number, click  to make a call, click  to stop calling, or click  to switch voice to cellphone or car speaker.

4. **Call interface:** when there is incoming call, the system will automatically switch to the Bluetooth function interface in any case, you can directly answer the phone by this Bluetooth hands-free mode, you can touch  to hang up call.


5. **Call record:** in the Bluetooth interface click on the call record button, you can enter the call record interface, display all call records, touch the list of any phone calls, you can call the number.

6. **Contact list:** click the  icon to download the phone number in the phone book address to the car; click the  icon to search the designated directory contacts; click the  icon will delete the downloaded phone information.

7. **Bluetooth music:** Bluetooth music function allows you play your cellphone music by bluetooth, and can be output via car speaker (steps maybe various due to brand of cell phone).




DVR







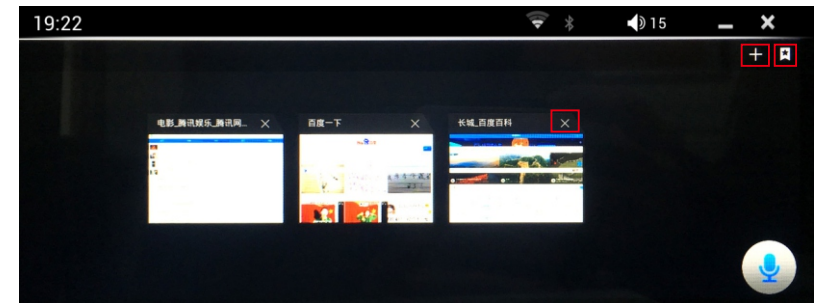
- 1, Click on the  icon, enter the recorder function interface, the music is playing at this time may not be maintained;
- 2, In the recorder operation interface, you can choose video, playback, settings and other functions.

LCD

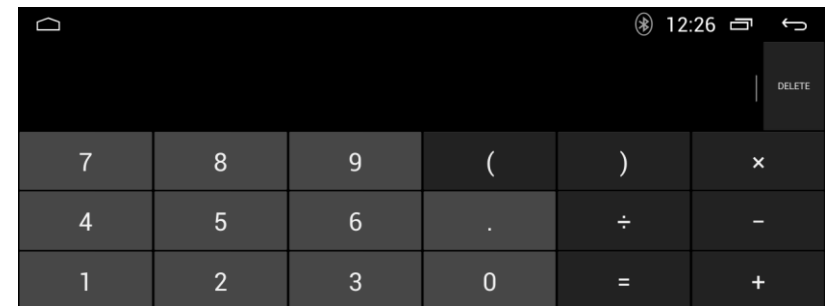


- 1, Click on  icon to enter into the LCD interface, in this interface we could view the original vehicle function parameters, such as synchronous display, residual oil volume, safety belt, brake switch, outdoor temperature etc.;
- 2, Click  icon to return to the previous interface, click  icon to return to the main interface.

- 3, Click on the upper right  button to view all web bookmarks. In this interface, you can click  to close excessive bookmark. Click the upper right corner  to add a new bookmark. Click the upper right corner  to view bookmarked web pages, history, etc., as follows:

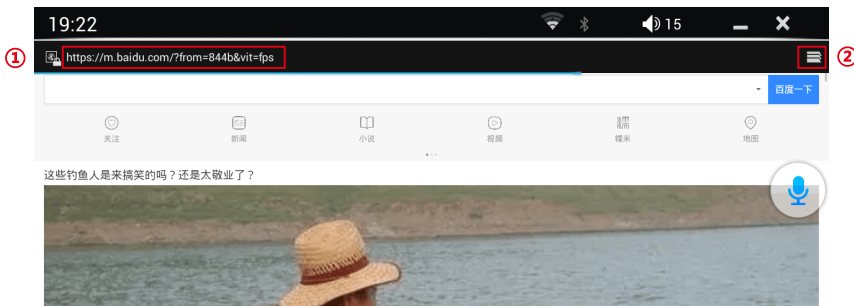


Calculator



- 1, Click main interface>Android>Calculator, to enter into the calculation function;
- 2, The function is humanized, simple and convenient to operate. It can be calculated with parentheses addition, subtraction, multiplication and division of different formulas.

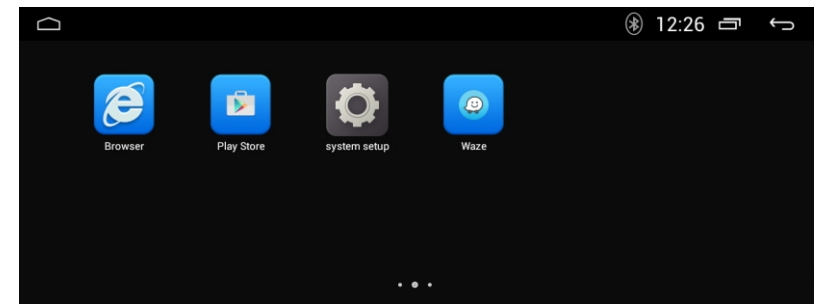
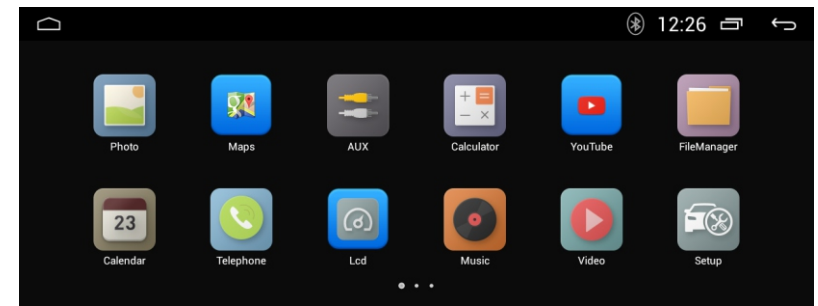
Browser




- 1, Click Main Interface >Android>Browser ;
- 2, Click left corner ① to input website for searching, as follows :



Android



- 1 Click  to enter android interface. Applications worked only on the mode of internet connected except of downloaded offline application;
- 2, In android interface, you can view the internal storage or external storage information, such as music, video, pictures, applications, calendar, and the third party applications, such as google map,youtube,etc;
- 3, Browser: this function needs to be internet connected,open browser,input the URL or the content ,click on the search to open the link (such as: Search "Google"); ;
- 4, Navigation selection: **you can choose your own navigation map as you wish.**
- 5, Settings: click system settings to control internal switches or application settings, such as: WiFi open/close, flight mode, storage, applications, device management, language input, backup and reset,developer options, etc.

Mirror Link



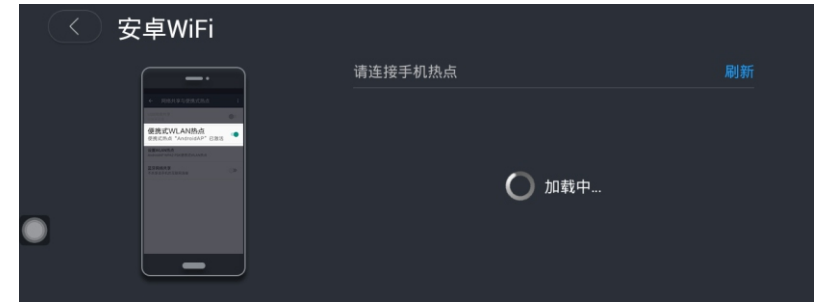
Mirror link is a kind of smart high definition video synchronization transmission function, By simply and conveniently connection, you can share your cellphone screen display to the vehicle navigation screen (such as:Video, music, pictures, games, etc). It is synchronously transmission and aslo high definition horizontal display supported.

1. Android USB mode



1. Connect cellphone to car system with android cable;
2. Go to Phone Settings> Open Developer Options> Turn on USB Debugging> Connect USB Cable> Allow USB Debugging;
3. How to open developer options: : find your cellphone's android version click 8 times in a row.

2. Android WIFI mode



- 1, Open WiFi of the navigation ;
- 2, The USB cable must be connected for the first time connected with cellphone or reboot of cellphone ;
- 3, Enter cellphone settings > developer Options > USB debug > connect USB cable > allow USB debugging ;
- 4, How to open developer options:find your cellphone's android version click 8 times in a row.

3. iPhone WiFi mode



- 1, Enter the cellphone setting, open portable hotspot, and then connect from car to the cellphone hotspot: Or make sure cellphone and car system both connect with the same WIFI.
- 2, Swipe from the phone screen to open the control bar>click Airplay>select> EC-Mirror-fv> open