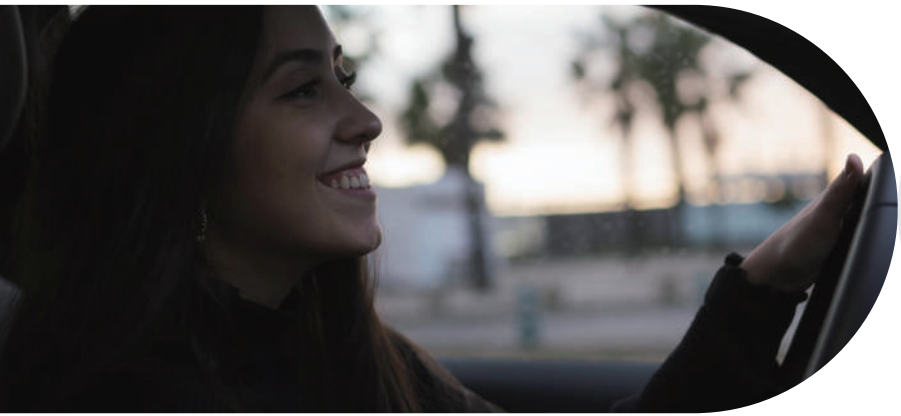
Wireless Carplay Instruction Manual

For NTG4.0 System



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1. Product Features Introduction


Apple Carplay


Android Auto


Mirroring


USB Media


Advanced Chip


Front/Rear Camera


Bluetooth calling

- Support Carplay, Carlife& Android Auto;
- Support wireless phone–link.
- Chip: Sunplus SPHE8368–U, 800MHZ ;
- OS RAM MB DDRIII SDRAM;
- Flash support SLC/MLC, 128MB SLC NAND FLASH;
  Adopt LINUX system, high performance ,more stable;
  Ultra–high integration, ultra–small size 60*39*6mm, simple circuit, combine easily.
  The complete and rich connectors, the strong and potential expansion functions ;
  After connect Carplay or, the original screen achieve positioning and navigation, voice search, BT function, music and other functions;
- Support multi–format video output,as below:
  ① Analog CVBS video format ② LVDS HD output ③ Digital RGB888
- Support two channels CD stereophonic sound output;
- Support original operate system;
- Support original MIC, high sound quality and echo control;
- Support play 1080P multi–format video smoothly,including H.264;
  Also support 1 group USB–HOST connect device;
- Through UART connector can complete touch screen and buttons the operation of machine and human interactive interface;
- Support extend reverse video input or AHD HD input and applications;
- Support extend front view,DVR and etc after communicate with engineer

2. Specification

Specification	
Chip：SPHE8368-U	Main Frequency：800MHz
RAM/ROM：128MB/256MB	OS：Linux Gemini
Support Audio Format：MP3，WMA，AAC，FLAC，WAV	Support Video Format：AVI，MKV，MP4，FLV，MPEG，H.264
Dimension：60mm*39mm*6mm	
Working Environment temperature：-40°C~+85°C	Storage Environment temperature：-40°C~+100°C
Storage Temperature：30%~90%	Working Humidity：45%~80%
Working Height：Device can work normally under 15000feet（4573 meter）height	
Drop Test：Device can work normally after dropping under 30inches（76cm）height	
Rating voltage：5V	Normal Working voltage：DC 5V(±0.3V)
Standby current：≦1mA	Video output：CVBS/RGB888/LVDS
Video output voltage：1.0Vpp/75Ω	Audio output：Two-channel CD stereophonic sound, can extend
Audio watt：Two channel 0.25W/CHANEL	Voice input：MIC analog signal
Communication serial port：1 group UART port	Touch way：IIC/serial communication
General IO：Multiplex IO, meet different customer demand	USB port：1 group

Bluetooth	WIFI
Bluetooth Standard：Bluetooth V2.1+EDR	Frequency Band：2.4GHz&5.8GHz
Frequency Band：2402MHz-2480MHz	Interface：USB
Interface：UART	Size：12*13mm
Size：12*15mm	Vcc：3.3V
Vcc：3.3V	ANT：External antenna interface
ANT：External antenna interface	

3. Product Accessories List



Host

SIZE：140*105*25mm (L*W*H)



LVDS cab



WI–FI antenna

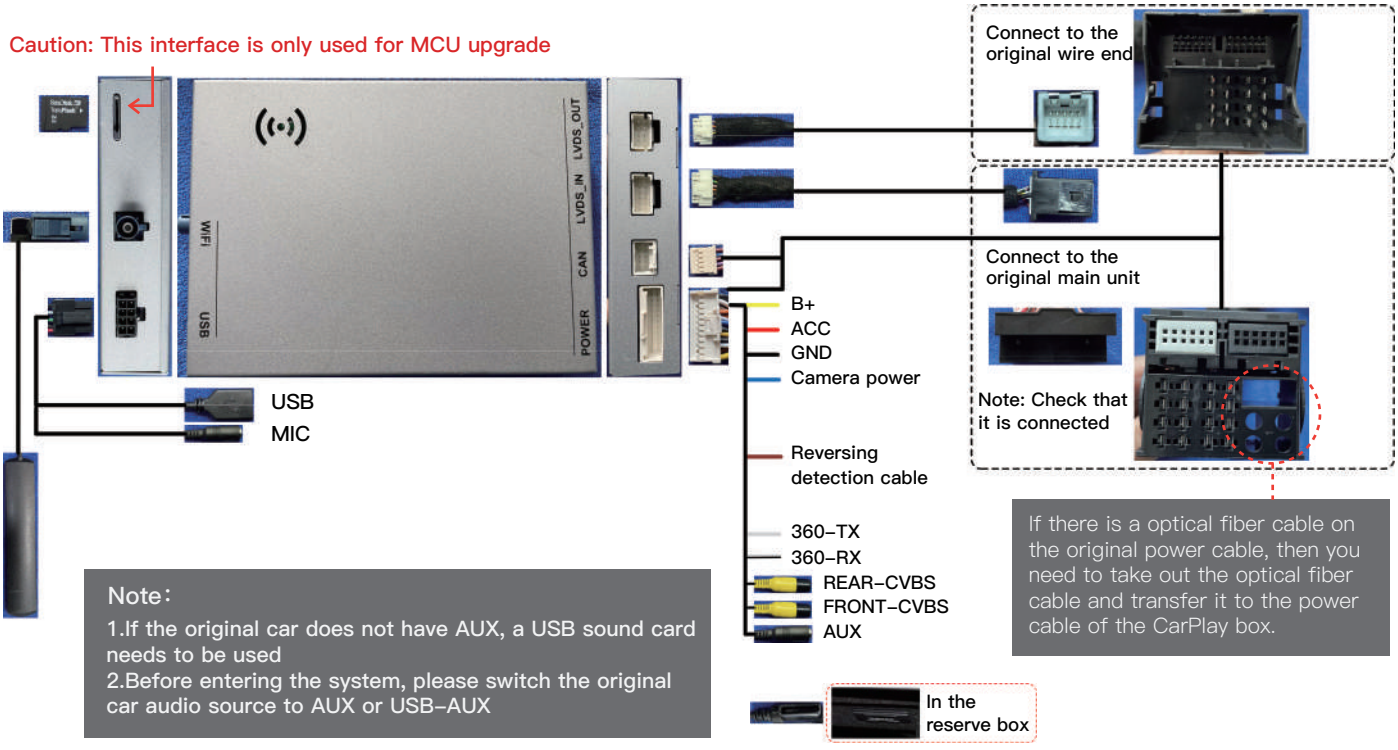


Power cable



RCA/USB cable

4. Product Installation



If there is a optical fiber cable on the original power cable, then you need to take out the optical fiber cable and transfer it to the power cable of the CarPlay box.

Note:

1.If the original car does not have AUX, a USB sound card needs to be used

2.Before entering the system, please switch the original car audio source to AUX or USB-AUX

5. Original Car Button & Dip Switch Explained

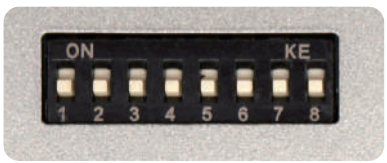




- ① : Long press to switch the system
② : Short press to answer the phone
③ : Short press to hang up or activate voice control
④: Short press volume + –
⑤ : Long press to reset the system



① : Long press to switch the system.
② : knob to move the cursor: short press to confirm;
Toggle left and right to switch up and down a track;
Long press to confirm activation of speech control.
Right toggle for 15 seconds to resume Position.



After changing the DIP settings, you need to disconnect the power of the product, then reconnect it again.

NTG4.0 SETTING

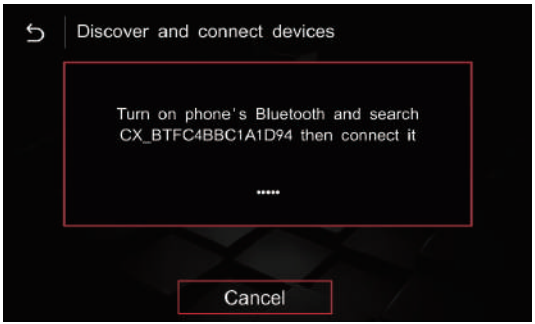
1	2	3	7	Car Model	8	
OFF	ON	OFF	/	4.0S	/	/
OFF	ON	ON	/	4.0		
4	5	6	Screen Size			
OFF	OFF	/	400*240 5.8”		/	/
OFF	ON	/	800*480 7”			

6. The First Connection Operation Description

The first connection method of wireless Apple Carplay is as follows : (manual method)



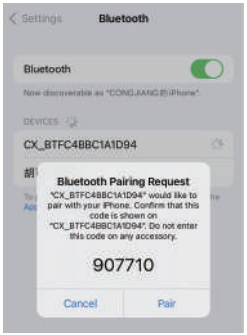
P1



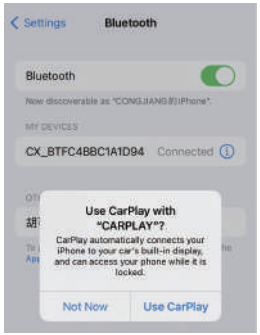
P2

① Enter the CARPLAY menu interface(P1) — click Settings — Discover and connect device — pop-up window as shown above CX_BT(P2).....

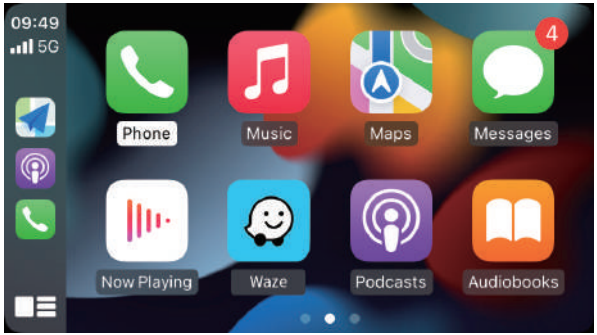
6.1 Connection Wireless Apple Carplay



P3



P4



P5

② Open the Apple mobile phone Bluetooth as shown above to search CX_BT(device name)(P3), click the connection pairing(P4), and then click to use CarPlay car(P5)

NOTE: Apple phone must be matched with bluetooth completely, the mobile phone can finish the wireless carplay connection when the wifi opened. Then the carplay will connects automatically next time.

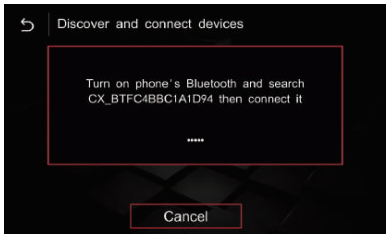
P.S: the first easy and convenient connection for the wireless Carplay: after connecting through USB wired method,the mobile phone will enable the wireless Carplay according to the instruction. After 15s dial the data cable, and the wireless will be automatically connected.

6.2 Connection Wireless Android Auto

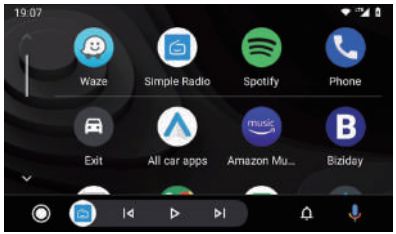
The first connection method of wireless Android Auto is as follows : (manual method)



P1



P2



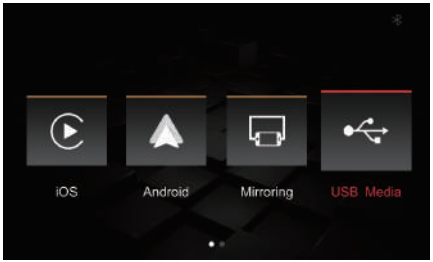
P3

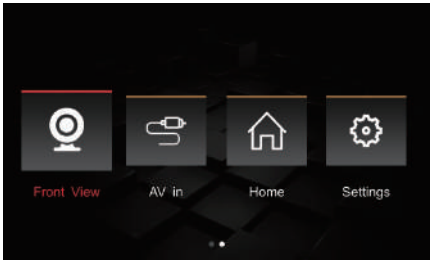
① Enter the installation Settings interface, enter the wireless Android Auto Settings(P1), and click the pair of CX–BT....(P2), Use Android mobile phone Bluetooth to connect CX_BT..., after the pairing is successful, you will enter the auto interface.(P3)

② Entering this interface, the wireless auto is successfully connected.(P3)

P.S. the first easy connection for wireless Android Auto: connect to the USB wired method then the mobile phone enable the wireless CarPlay according to the instructions, and dial the data cable after 15s. The wireless Carplay will connect automatically .

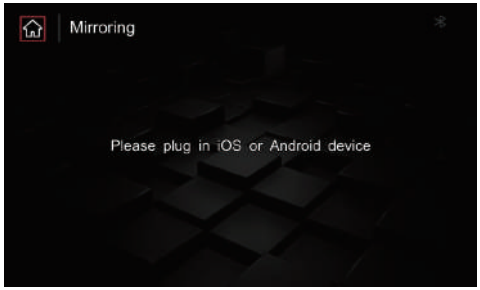
7. Function Description



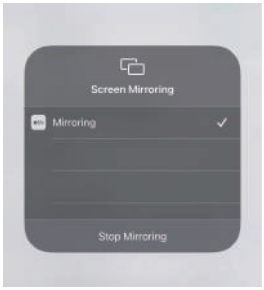


- ▲ Wired/Wireless Carplay
- ▲ Wired/Wireless Android Auto
- ▲ Screen mirroring function (Apple, Android)
- ▲ USB multimedia playback (Supports lossless audio, 720P video and picture playback)
- ▲ Support original car's rear-viewing camera, after-sale rear-viewing camera(CVBS/AHD), front-viewing camera (can be set up) or DVR
- ▲ Support to expand and after-sale 360 panorama (CVBS/AHD)
- ▲ Support audio EQ adjustment, music & navigation volume button adjustment separately
- ▲ Support the original car MIC (reserved installation MIC), and support the automatic correction function of calling for the calling cord.
- ▲ Support the original Bluetooth call function
- ▲ Support AUX in function, which can expand digital TV
- ▲ Support wired Baidu CarLife (need to open in the factory Settings, password: 0301)

7.1 Screen Mirroring



P1



P2



P3

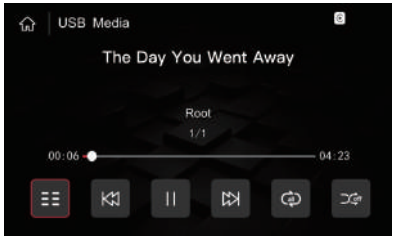
Apple

First disconnect the wireless Carplay or wireless Auto connection.Click the Mirroring icon, the USB cable is connected to the Apple mobile phone, and the phone prompts as shown above will pop up. You can enter the screen interface.(P1&P2)

Android

In the Mirroring interface → insert the Android phone, the “Autolink” download box will pop up on the mobile phone. Click the download. After the download is completed, click the installation in the browser. After the installation, the mobile phone interface will display the auto link icon. Re –insert the Android phone on the “Mirroring” interface, and the mobile phone will pop up “Open the USB default connection box” → click “OK”. After the connection is connected. (P1&P3)

7.2 USB Media/Commonly Installed System Function Settings



USB Media

Insert U disk will automatically jump to the USB player interface, supporting lossless audio and 720p video playback.



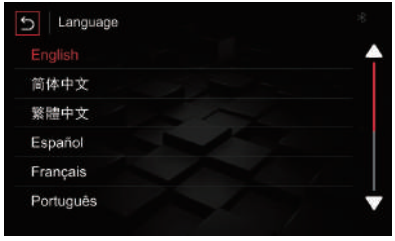


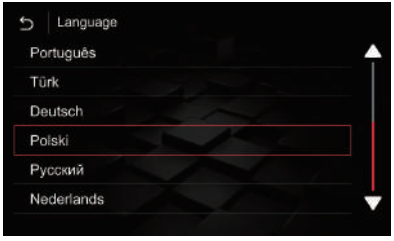
Automatic echo cancellation

If there is an echo of the call, you can find the “Automatically eliminate the echo” in the Audio Settings. Before eliminating the echo, you need to adjust the volume of the original car to the normal use value (we generally recommend adjusting to 50–70), and the echo effect will be better.

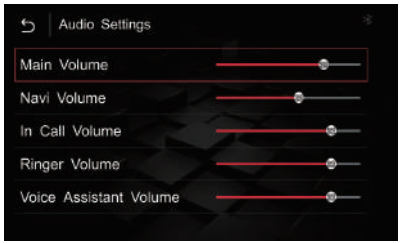
Language Settings

You can select the corresponding language in the installation setting interface.





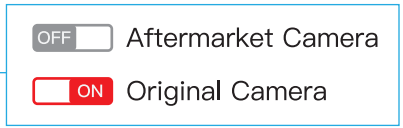
7.3 Commonly Installed System Function Settings



Audio Settings

Audio Settings like above picture to operate, we suggest the default value.





Avdanced Features

Common rear view Settings are as shown right. If you install the AHD camera, you need to enter the AHD to select the corre-sponding frame rate.

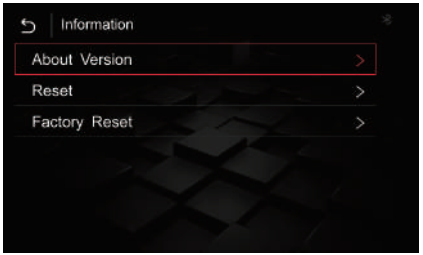




UI Settings

UI Settings like above picture to operate.

8. System Upgrade



P1



P2



P3

The version information as shown above(P1),click “about the device”to display the current system version information(P2).

The specific operation is as follows:

① In the USB device, copy and upgrade files from the computer(P1–P2). After the file is decompressed, the ISPBOOOT.BIN and OSU_SETTITINGS folder or Update file is placed in the USB disk root directory;

② Insert USB, return to the main interface → Settings → version information → About device → update → click the corresponding file upgrade → upgrade (during the upgrade process, the USB cannot be pulled out, and the USB will be automatically read after the upgrade is completed) (P3)

❗ The upgrade process cannot be powered off. Please pay attention to whether the USB disk file name is correct and determine the vision information before the upgrade.

9. Common Fault Investigation

- The after-sale screen becomes blurred and indistinct, LVDS cable switch to the host,and it can be excluded poor contact of LVDS;
- The sound of the original car was normal, and Carplay had no sound. —— ① the carplay sound channel is selected as the original car AUX; ② If there is still no sound,you need to play music from the aftermarket and then switch to the AUX of original car to actibvate it.
- There is the echo (outside) while calling —— resolve it to by eliminating the echo in Settings.
- There is no sound in Carplay music or call-to-call —— check whether the sound is in the USB AUX channel. Do not connect to the original car Bluetooth or mobile phone.
- Carplay has been connected but the screen displays black, the sound is normal —— turn off the mobile wifi and BT,check if the installation interface can be displayed normally.if it fails to rhile reversing —— please set up in the after-sale interface.

Dear users:

We are Official Store.Thank you very much for choosing and using our products! Our products have passed strict functional and performance tests before leaving the factory to ensure that each product is in good condition Give it to users. All products enjoy the Three Guarantees policy.If you cannot install or have other problems, please contact us.All of our products enjoy a year of warranty service, please feel free to purchase and use them!

The following regulations will not be covered by the free warranty service

9.1 After the free warranty period, the appearance is scratched, dirty and deformed.

9.2 The warranty card and purchase certificate are inconsistent with the product model or have altered marks.

9.3 The bar code of the host machine body is unclear or there is no bar code product.

9.4 Failure to use, maintain, repair or refit according to the requirements of the product manual causes damage.

9.5 Damage due to force majeure (such as fire, flood, traffic accident, lightning, earthquake, etc.).