intelligent Box

1. Functional statement

| Carplay | Android Auto | Reversing video input | Mirroring | USB Video playback |

CarPlay / Android Auto

The built-in vehicle machine interaction system of iPhone cooperates with the central control knob button to provide voice command and control of phone, information, navigation, music ,to operate Siri voice interaction to obtain more information; Support wireless and wired connection Carplay

The original ecological Android car-machine interaction system developed by Google, voice control   of phone, information, navigation, music built-in voice control system;

Reversing video input   Smart module can decode video and can be equipped with rear-view video input（The intelligent module can decode video and install rear view）

Mirroring

Supports wired and wireless mirroring functions for iphone and Android phones

USB Video playback

Automatic media playback function, can be directly inserted into U disk to play video and audio media

2. Specifications

Operating Voltage：5V	stored temperature：-30~+85℃
Operating temperature：-30~+75℃	environment humidity：≤98%（at45℃），65±5%（rated）
Power consumption：1A（rated），3A（Max）	Shutdown current：300mA（Clock is on）
Quiescent Current：less than 3mA	
Charging current: ≤2A, when the USB charging current>1A, the host should activate the circuit protection function to control the current below 1.5A, **to avoid** burning the product.	

3. Warranty terms

Dear users

Thank you very much for using our products. Our products have passed strict function and performance tests before leaving the factory to ensure that each product is delivered to users in good condition. All products enjoy the three guarantees policy of vehicle electronics.
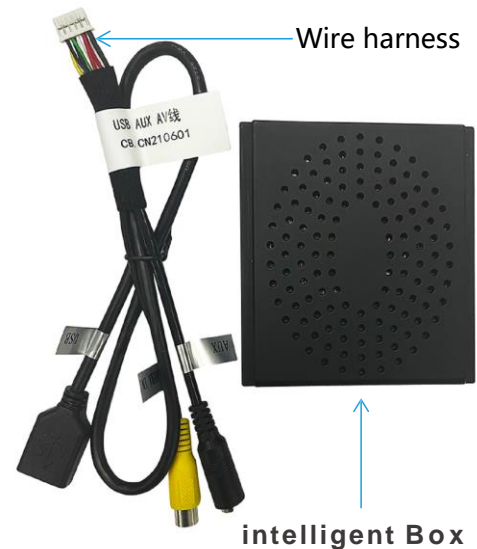
The following regulations will not be covered by the free warranty service

1. Exceeding the free warranty period, the appearance is scratched, dirty or deformed.

2. Failure to use, maintain, dismantle, or modify the product to cause damage.

3. Damage due to force majeure (such as fire, flood, traffic accident, thunder and lightning, earthquake, etc.).
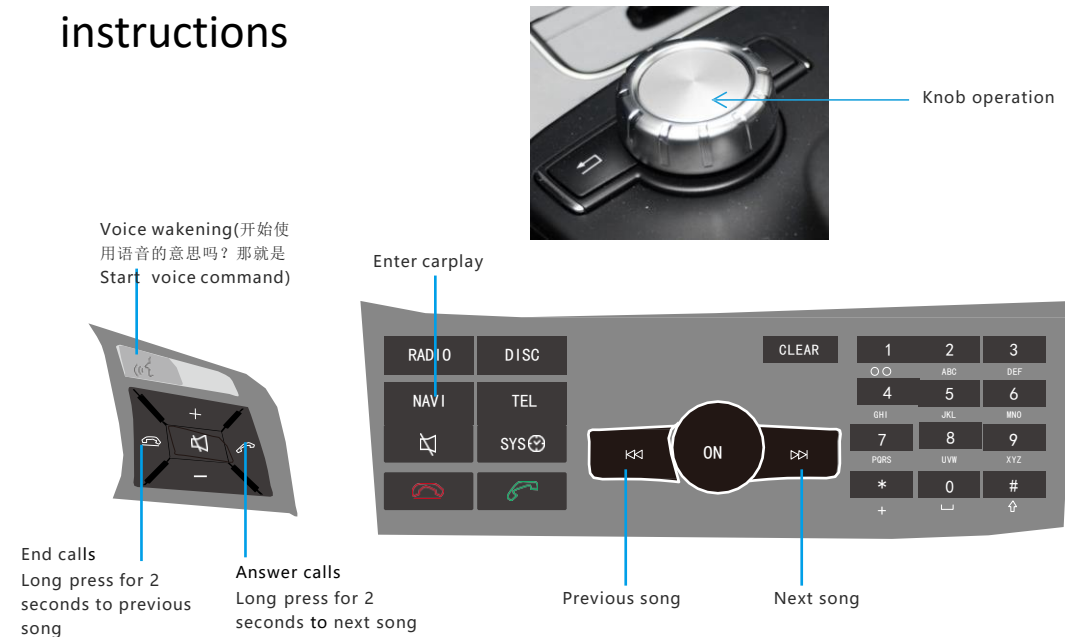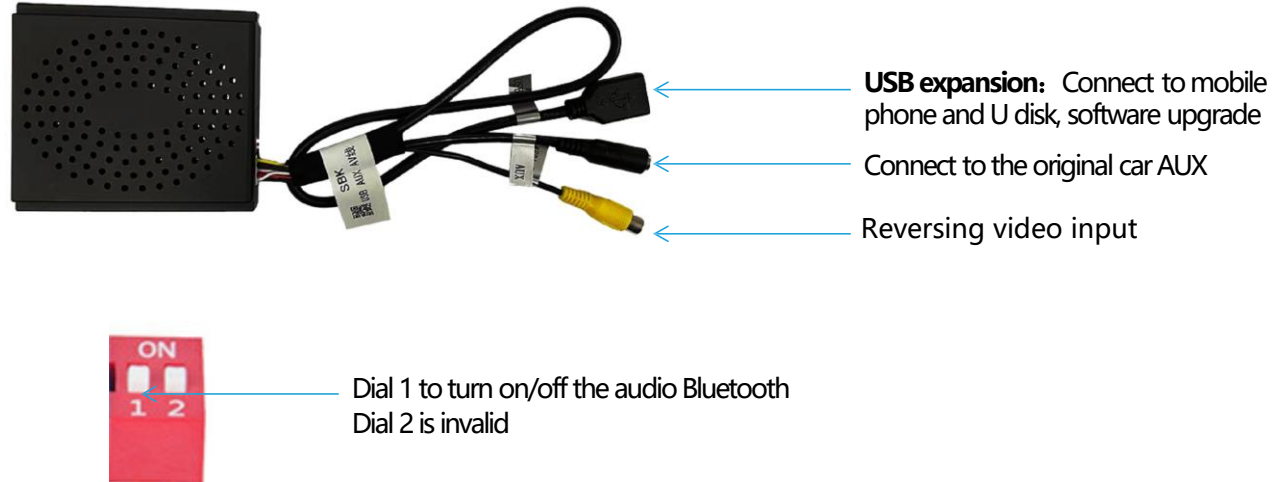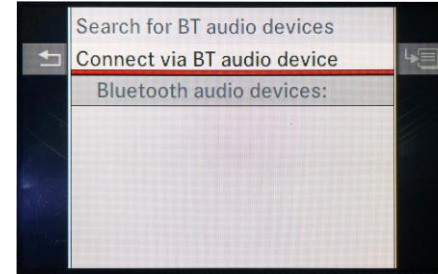
4. Product List

Wire harness

intelligent Box

5. Installation diagram

6. Control key operation instructions

Knob operation

Voice wakening(开始使用语音的意思吗？那就是 Start voice command)

Enter carplay

End calls
Long press for 2 seconds to previous song

Answer calls
Long press for 2 seconds to next song

Previous song

Next song

RADIO DISC

NAVI TEL

SYS

CLEAR

1 2 3
○○ ABC DEF
4 5 6
GHI JKL MNO
7 8 9
PQRS UVW XYZ
* 0 #

ON

7. Connection diagram

USB expansion：Connect to mobile phone and U disk, software upgrade

Connect to the original car AUX

Reversing video input

Dial 1 to turn on/off the audio Bluetooth
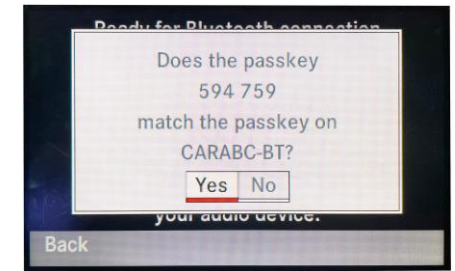Dial 2 is invalid

8. Bluetooth audio connection

1. Open the Bluetooth audio of the original car host and select Connect via BT audio device

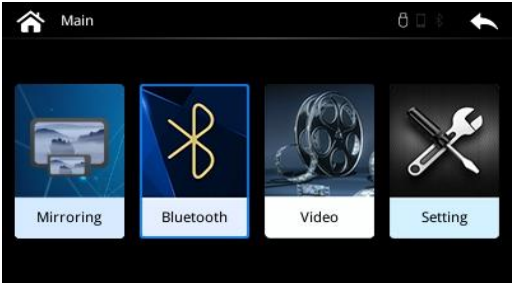2. Waiting for Bluetooth connection
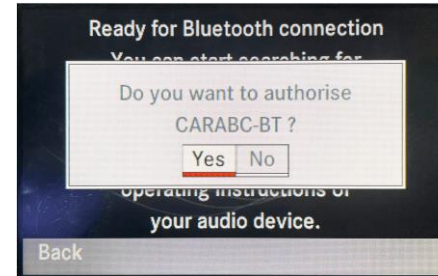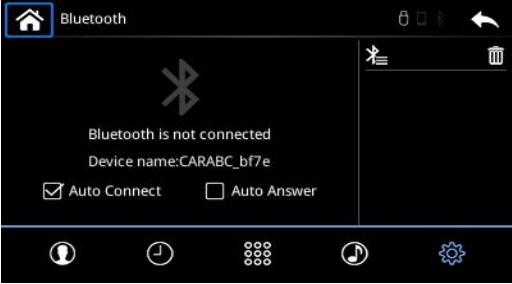

3. Pop up the connection request and click YES

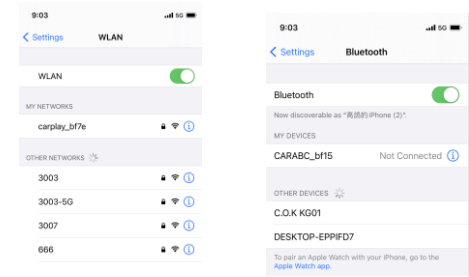4. Pop up pairing request and click YES
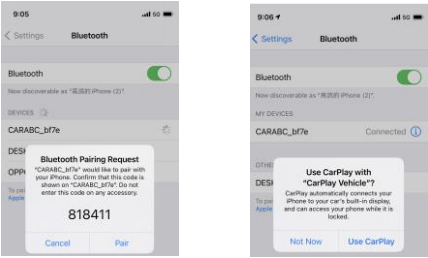
9. Wireless CarPlay connection method

1. Select the Bluetooth option

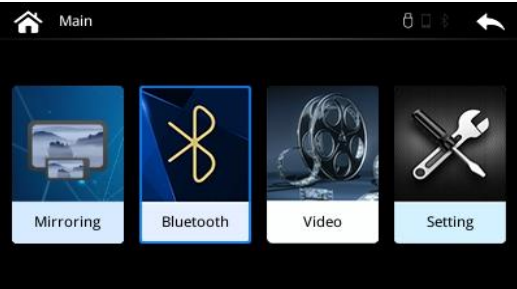2. Check the Bluetooth name starting with "CARABC-..." in the "Bluetooth" system interface

3. Turn on the phone WiFi and keep it on, then enter the phone Bluetooth interface, select to connect CarPlay Bluetooth
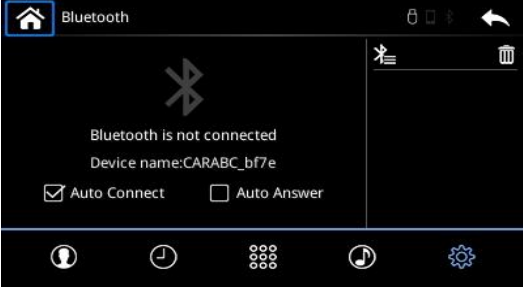
4. Select the Bluetooth name starting with "CARABC-...", a pairing request will pop up, select pairing; after the Bluetooth pairing is successful, the phone will pop up a request to enable the carplay option, select confirm
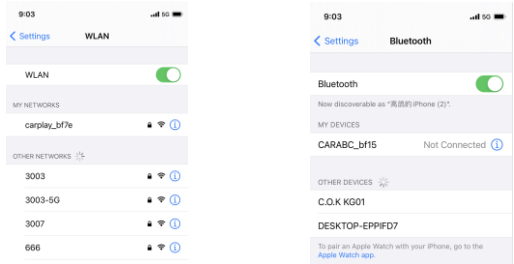
10. Wireless Android auto connection method

1. Select the Bluetooth option

2. Check the Bluetooth name starting with "CARABC-..." in the "Bluetooth" system interface


3. Click on the Bluetooth name beginning with the link "CARABC-...", a pairing request will pop up, just click pairing; after the Bluetooth pairing is successful, the phone will pop up a request to enable the carplay option, just confirm it
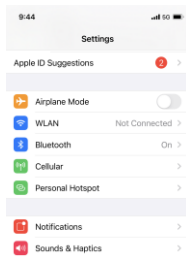
4. Click the Bluetooth name at the beginning of the link "carabc -..." and click pairing. Turn on the Android auto app on the mobile phone, and the system will connect automatically。 Above operations are not required for wired connections,just plug and play
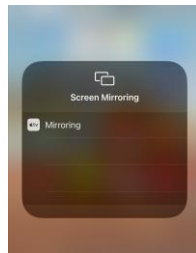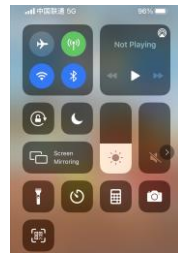
11. Apple wireless projection
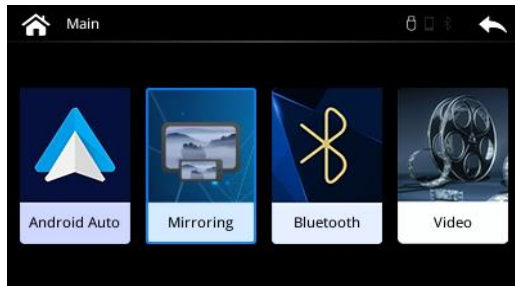
1. Select iphone option in Mirroring function

2. Turn on the phone, select the "Wireless LAN" option, the search bar will show the carplay-... name（the name of carplay...） and click the link, the password is 88888888

3. After the carplay wifi connection is successful, return to the main interface of phone, open the shortcut menu bar, select "screen mirroring" and turn on
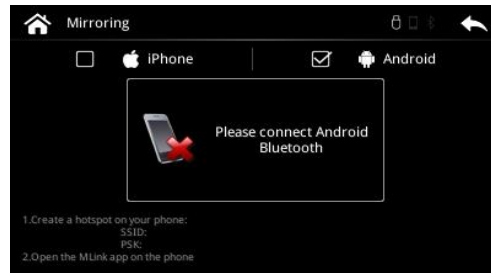

4. After the mobile phone "Screen Mirroring" is turned on, select "Mirroring" to complete the wireless screen mirroring
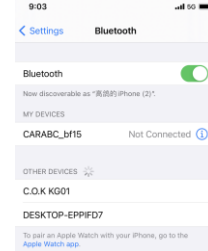
12. Android wireless projection

1. Find the "Bluetooth" function option and enter, check the Bluetooth name in the "Bluetooth" system interface

2. First download the "MLink" APP on the phone, turn on the Bluetooth , then find the name starting with "CARABC-..." in the Bluetooth search bar, and select the connection and pairing

3. In the system interface,enter the "Mirroring" option, adjust to "Android" to prompt the phone to establish a mobile phone hotspot for communication, the hotspot name and password are displayed in the lower left corner of the connection interface
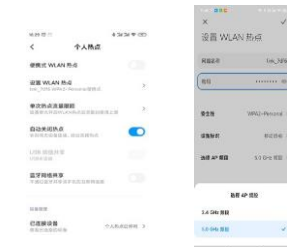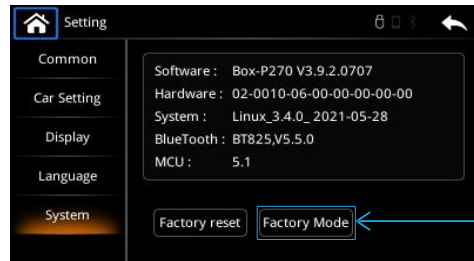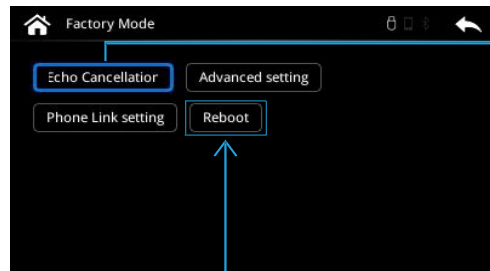

4. Enter the phone settings, find "Personal Hotspot", set the name and password of "Personal Hotspot" to be consistent with the name and password prompted on the "Mirroring" interface, select "5.0 GHz Band" for the hotspot AP frequency band; turn on the "Personal Hotspot" switch , Return to the main interface of the phone and open "MLink" to use wireless projection

13. Echo cancellation

CarPlay system-system settings

Setting

Common
Car Setting
Display
Language
System

Software : Box-P270 V3.9.2.0707
Hardware : 02-0010-06-00-00-00-00-00
System : Linux_3.4.0_ 2021-05-28
BlueTooth : BT825,V5.5.0
MCU : 5.1

Factory reset   Factory Mode

Enter factory mode

Factory Mode

Echo Cancellation   Advanced setting

Phone Link setting   Reboot

Call echo cancellation: If there is an echo, please click this button for echo correction

Echo Cancellation

Echo cancellation delay automatic correction procedure
Please keep quiet and make sure there is no potential noise in the car
Please increase

Analyzing the echo delay, please keep quiet...

Start

Analyzing the echo delay finished, accuracy:91%!

Analysis failed, please try again!

Complete the steps in turn, return to the the interface of left picture, and click "reboot" to restart the system,

Wait for the system to restart and the selected settings will take effect
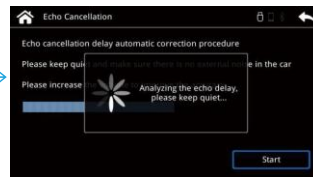
When correcting the echo, we must keep: 1. It is quiet in the car;

2. Turn the volume to a moderate position, and then click "start" to start echo correction. Finally, the larger the correction value, the better, as shown in the left figure