

KSMART AUTO BOX



Wireless CarPlay & Android Auto

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1 Introduction

1.1 Preface

Thank you For Choosing This Intelligent Vehicle Information System. It is a Comprehensive System Of Navigation And Entertainment .It also Referred To As The Car-Machine Interconnection System. The Car Owner Can Use The Car To Connect To The Mobile Phone For Navigation And Voice Recognition; When Parking, you Can Plug In The USB To Listen To Music Or Watch The Video; When Driving, you can Use The Phone Function directly for navigation and music., No More Need To Hold The Mobile Phone To Make Calls , Safe And Convenient.The Pictures In This manual Are For Reference Only. For Details, Please Refer To The Actual System.

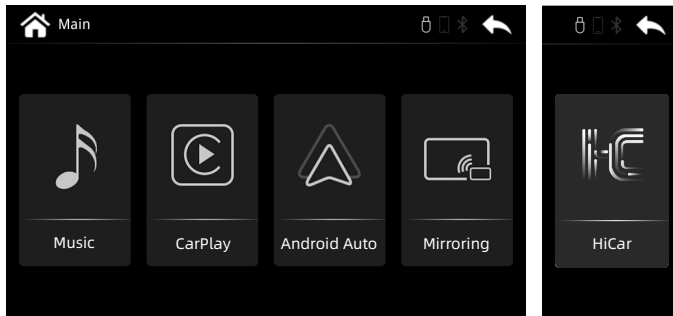
1.2 Safety Precaution

Please note that it is not allowed to operate machine while driving, so as to follow the safety driving rules and traffic laws. This machine is an electronic product, please observe the safety precautions of ordinary electronic machines. This machine is powered by vehicle 12V-24V 5A power supply, do not install the machine on a substandard power supply to avoid damage to the machine. Do not disassemble and assemble without permission, it should be carried out by professional maintenance personnel. Do not modify the system software, upgrade, etc. without permission. Do not touch the surface of the main unit with sharp or hard materials. Do not use in extreme environments, normal operating temperature is -40°C to 70°C. Do not pour liquids or chemicals (such as water) on the machine. The company does not assume any responsibility for the loss or damage of personal data caused by the user's wrong operation, product maintenance, replacement or other unexpected circumstances, and is not responsible for other indirect losses caused thereby. The company has the ownership and final interpretation right of the function manual, three guarantee certificate, warranty card and other related materials.

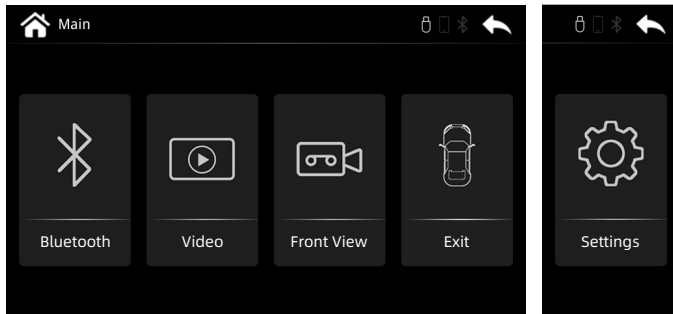
2 System Composition

The Following Is The Main Page Of The On-Board System Display:










The Main Interface Of System Home page-1



The Main Interface Of System Home page-2



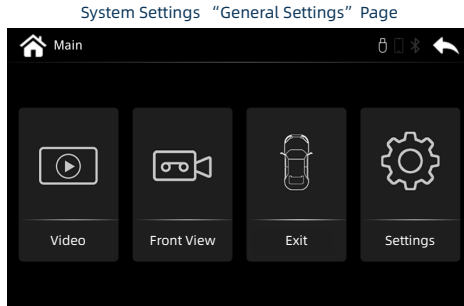
Introduction to the APP on the main interface of the on-board system

ICON	FUNCTION CONTENT
 Music	"Music" : Play Local U Disk Music, Support FAT32 U disk format
 CarPlay	"CarPlay" : Support iPhone Wired And Wireless CarPlay Connection (The Operation Will Be Introduced In Turn Later)
 Android Auto	"Android Auto" : Support Android Mobile Phone Wireless/Wired Bluetooth Connection
 HiCar	"HiCar" : Support HUAWEI Mobile Phone Wireless/Wired Bluetooth Connection
 Mirroring	"Mirroring" : support Iphone & Android Mobile wired and wireless mirroring screen
 Bluetooth	"Bluetooth" : iPhone & Android Mobile Phone Bluetooth Connection (The Operation Will Be Introduced In Turn Later)
 Video	"Video" : Play Local U Disk Video, Support FAT32 U disk format
 Exit	"Exit" : Click To Return Original Car System
 Setting	"Setting" : The Entrance To The Various Functions Of The System (The Operation Will Be I ntroduced In Turn Later)

3 System Settings - Operation Instructions

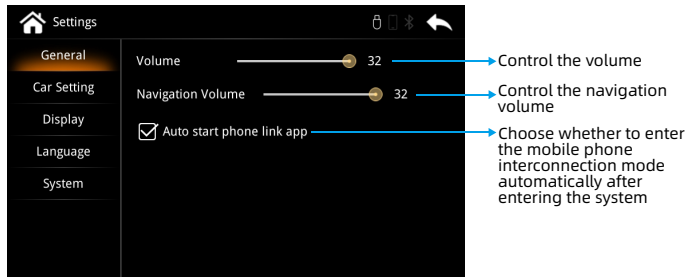
3.1 System Setting

Regarding System Settings, After The Vehicle Is Started, The Main Interface Of The Vehicle System Will Be Displayed. There Is A [Setting] Button In The Main Interface, And You Can Directly Click The Setting Button To Enter The Main Setting Page. As Shown In The Following Figure: Each Page Of The System



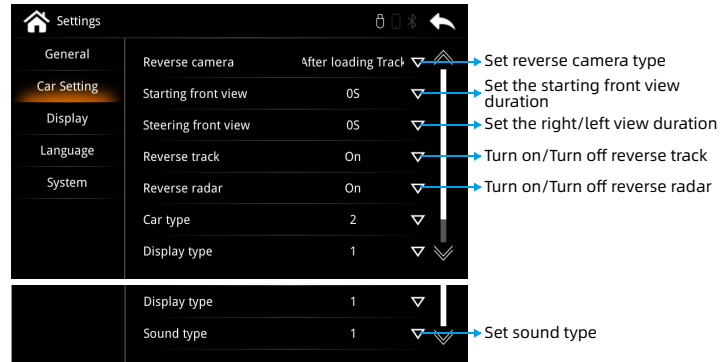
3.2 General Setting

Volume Adjustment

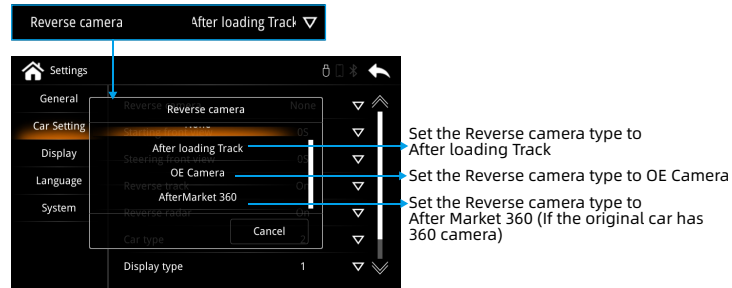


3.3 Set Up "Car Setting"

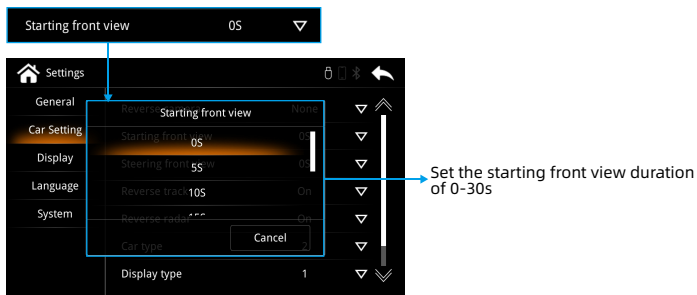
Car Setting - Set sound effects and original car reversing image, etc.



3.3.1 Set reverse camera type



3.3.2 Set the starting front view duration

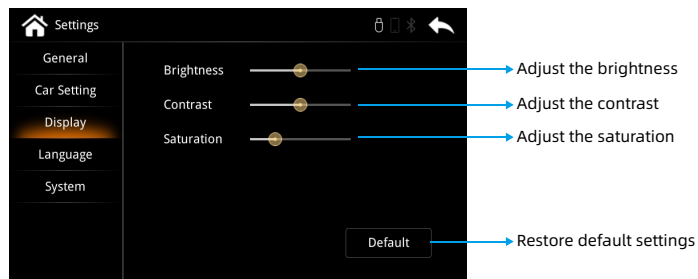


3.3.3 Set sound type



3.4 Display setting

Display - The Backlight and contrast of the system can be adjusted on the interface



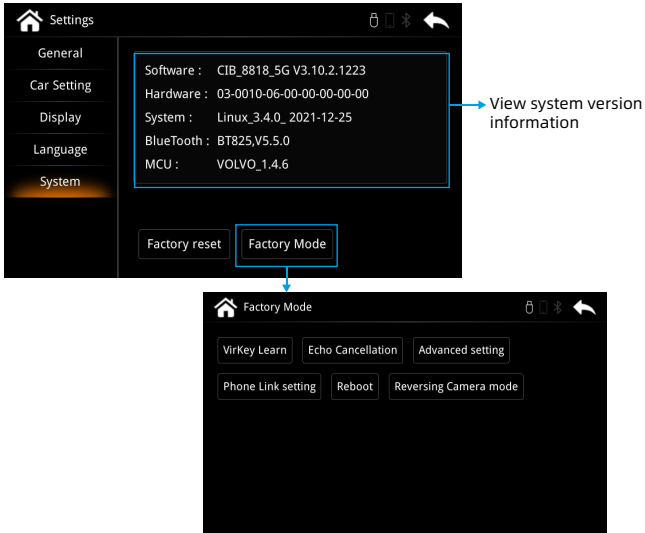
3.5 Language Setting

Language - Set the system language ; support multiple language options

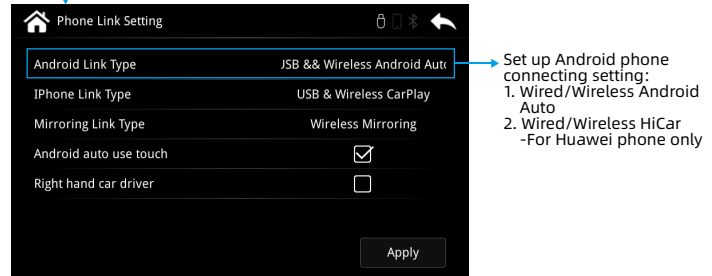
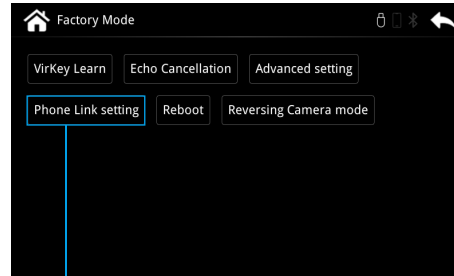


3.6 System setting

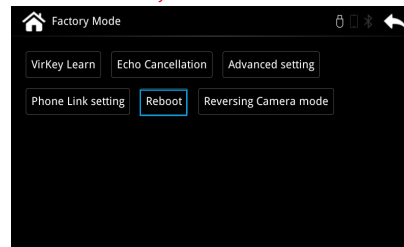
System - You can view the system version information and enter the factory mode.



3.6.1 Android phone connection setting



Note that after the setting is completed, you need to return to the previous menu and click to restart the system



4 Parameter

Operating voltage: 9-16V, 14.4V (rated)	Storage temperature: -30~+85°C
Operating temperature: -30~+75°C	Ambient humidity: ≤98%(at45°C), 65±5%(rated)
Resolution: 1024*600 ultra-clear resolution	Wifi transmission: 5G
Power consumption current: 1A(rated),3A(Max)	Shutdown current: Current: 300mA(Clock is on)
Quiescent current: less than 3mA	
Charging current: ≤1.5A, when the USB charging current >3A, the host machine should activate the circuit protect function to control the current within 1.5A and avoid products burning	

5 AUX Connection Instructions

5.1 Connect Car Original Aux

If the car has original AUX, select AUX in original media menu



5.2 Connect AUX-USB Adapter

Connect the Aux-USB adapter by following photo below. After connected, please back to original media menu and select ipod/USB option.
(Generally use to Volvo V40, Mercedes-Benz NTG5.0)



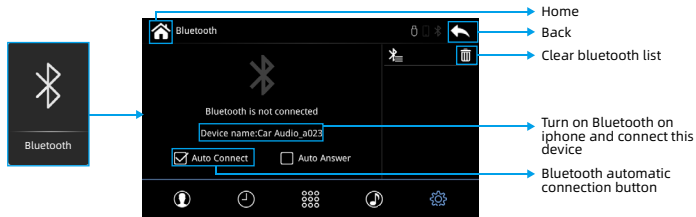
AUX-USB



* USB Audio Box connection

6 CarPlay - Operation Instructions

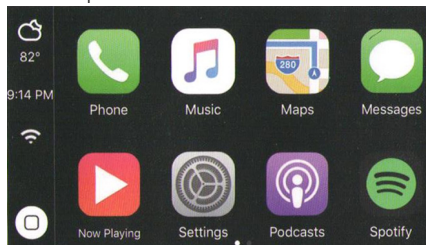
Click the [Bluetooth] icon in the system main interface to enter the Bluetooth connection interface



1. Turn on the phone WiFi and keep it on
2. Enter the phone Bluetooth setting, click kSmart bluetooth and connect
3. Allow pairing devices



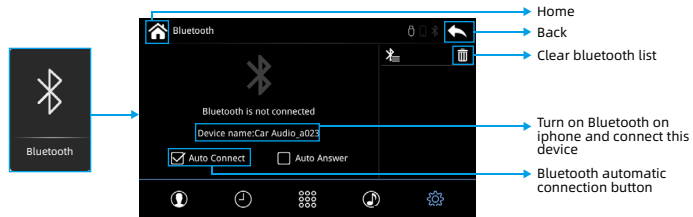
4. Allow to use carplay



5. After carplay successfully connected, you can enjoy wireless carplay function. Wired carplay use Lightning cables and plug to car usb port. no need to connect bluetooth

7 Android Auto-Operation instructions

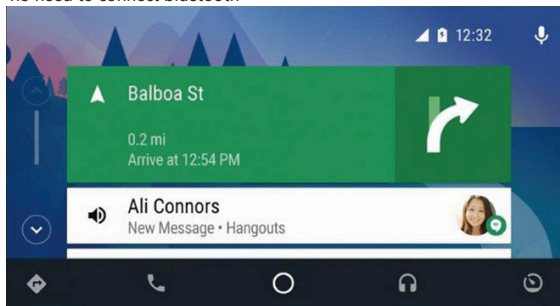
Click the [Bluetooth] icon in the system main interface to enter the Bluetooth connection interface



1. Turn on the phone WiFi and keep it on, then enter the phone Bluetooth setting, click kSmart bluetooth and connect
2. Confirm use of connection



3. After bluetooth successfully connected, the menu will switch to android auto automatically. Wired android auto use Lightning cables and plug to car usb port. no need to connect bluetooth

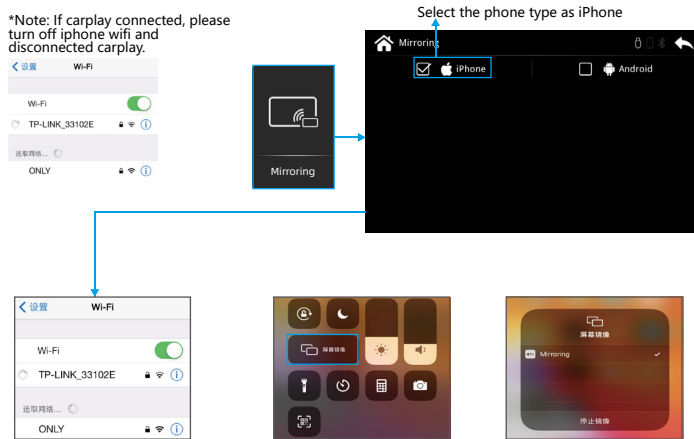


8 Mirroring - Operation Instructions

8.1 AirPlay Connection

Click the [Mirroring] icon in the system main interface to enter the Mirroring connection interface

*Note: If carplay connected, please turn off iphone wifi and disconnected carplay.



1. Turn on the phone WLAN and connect the current device WLAN;

2. Enter the iPhone shortcut page, click airplay

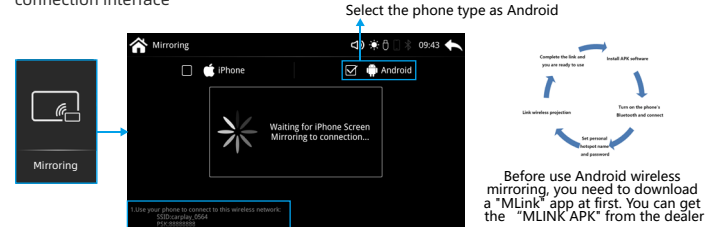
3. Select Mirroring



Connection Successful

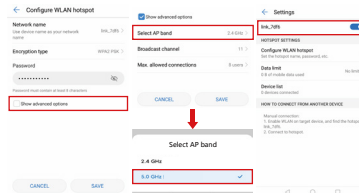
8.2 Mirror link connection

Click the [Mirroring] icon in the system main interface to enter the Mirroring connection interface

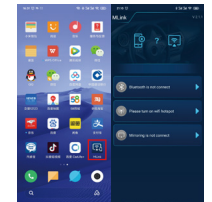


1. Turn on the phone bluetooth, connect ksmart module bluetooth and confirm the connection.

2. Enter the phone settings function and find "Personal Hotspot"; Set the name and password of "Personal Hotspot" to be consistent with the name and password prompted on the "Mirroring" interface.



3. Select "5.0 GHz" for the hotspot AP band; (If there is no such option, select "Show advanced options" first). Then save the setting and turn on the "Personal Hotspot"

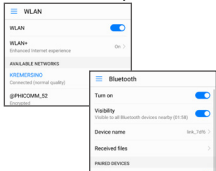


4. Return to the main interface of the phone and open "MLink" to use wireless mirroring. And wired connection plug and play, without the above operations

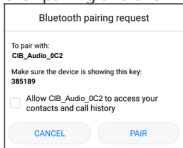
9 HiCar - Instructions Use

*Note: Before using, you need to set the connection method of the Android phone to Huawei HiCar. (Please refer to: 3.6.1)

1. Turn on the phone WiFi and Bluetooth, keep it on
2. Click the [HiCar] icon in the system main interface to enter the HiCar connection interface



3. When the mobile phone is close to the central control, it will automatically connect to the Bluetooth of the device, click pairing and allow



4. After HiCar successfully connected, you can enjoy wireless HiCar function



10 USB Video - Instructions Use

Click the [Video] icon in the system main interface to enter the Video interface



Play Local U Disk Video, Support FAT32 U disk format

11 FAQ

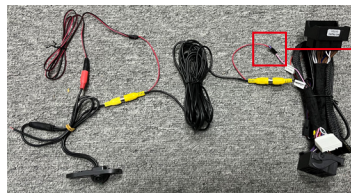
1: Why there is no sound in carplay?

- 1: We are using car original aux as sound channel, it is important to select "aux" in car original audio menu
- 2: Make sure mobile bluetooth didnt connect to car bluetooth or other external device. Otherwise it will occupy the audio and cause carplay/ android auto no sound
- 3: If the car has fiber cable, need to move the fiber cable to our 48pin harness cable.
for Benz, there are two AUX in original engineer mode- audio aux and video aux. Make sure turn on Audio aux.

2: Why the car centre screen is black in the reversing mode after installing the carplay module?

This is because the module has reversing menu. Black screen means switch to retrofit reversing menu. If get original reverse camera, please go to setting menu- camera setting- reverse camera- select OEM camera. If get aftermarket reverse camera and connected camera to the module, please go to setting menu-camera setting- reverse camera- select aftermarket camera. At same time, please make sure the camera is power supplied. If the car is manual, it is important to add a extra 12V cable from reversing light to module BACK wire-brown wire in 48pin harness cable

How to connect aftermarket reverse camera to the module (Automatic car)



Important Notice: DON'T MAKE ANY CABLE TOUCH ANY METAL PLACE AFTER REMOVE THE PROTECTIVE CAP. After connection, please tape all cables immediately.

3: After installation complete, switch to carplay/android auto menu but get black screen/ incomplete display/flashing screen.

Please set the switches by following the information imprint in the module. Each screen size has different switches. H means high, L means low

4: Why can not listen original FM in carplay/android auto menu.

Carplay and original FM are use different sound channel. If want to use FM while using carplay/android auto, you can download FM app in the mobile and then use it in carplay/android auto menu.

5: Why can not connect to carplay / android auto and keep stuck on the connection interface ?

1: Before use wireless function, please make sure wireless function has been turn on in Retrofit Factory setting menu
iPhone: 1) The phone are requested to recognize the carplay wireless network and connect automatically. Based on this logic, please do not turn off wifi in shortcut menu as it will cause "the wireless network cannot be automatically recognized before tomorrow" . If need to turn off wifi, please turn off the wifi in the phone setting menu.
2) Carplay request turn on "Siri " function in the phone setting and then use the function.

2: Android phone: 1) Please turn on wireless android auto in retrofit factory setting menu and turn off other function like Hi-Car. 2) download android auto apps in the phone and it is important to allow all permissions.3) For wireless connection, some android phones do not support wireless, please check the details information in specific phone official website.

12 About Network Usage

The network and traffic used by the retrofit system come from mobile phones. In the first time connection to carplay, you need to manually connect the car's Bluetooth to the mobile phone's Bluetooth, and keep the mobile phone's Bluetooth turned on in all the time. After CarPlay is successfully connected, the Bluetooth of the mobile phone and the retrofit system will be automatically disconnected, and then enter the WIFI authentication channel. The retrofit system actively identifies the dedicated hotspot and transmits a pop-up to the display. For iPhone wired connection, just need to plug lightning cable to retrofit usb cable and complete the connection.

13 About Driving Safety

Drivers Should Not Operate The Machine During Driving, So As Not to Affect Safe Driving And Cause Traffic Accidents. Safety First, Smart Entertainment Second, Please Strictly Abide By The National Traffic Regulations!

14 Postscript

So far, You Have Learned About The Comprehensive And Easy-To-Use In-Vehicle System. You Can Now Operate The Car Machine To Experience The Convenience Brought By The Kit To Your Driving Life, And Enjoy The Fun Brought By Technology! I Wish You a Smooth And Safe Journey! Due To The Continuous Upgrade Of The Software Version, The Screenshots In This Manual May different with The menu You Actually Use.

CERTIFICATE

Product Name:

Model:

Leave Factory Date:

Inspector:

Manufacture:



CarPlay



CarLife



HUAWEI HiCar



AndroidAuto



Front/Rear/360



Mirroring

AHD

AHD HD video protocol



USB video



DSP Power amplifier chip



Super Fast Charging