

HB

HARMONY BLUE NOTE

HB MS Q9P1

HIGH-END CAR MULTIMEDIA STATION

HIGH-END 512 AUDIO/VIDEO DSD PLAYER
HIGH-END 8CH DSP WITH ESS DAC
QUALCOMM SNAPDRAGON PROCESSOR
CAN BUS CONNECTION
4G INTERNET CONNECTION



Quick Guide



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EN General Instructions

The multimedia system is equipped with different functions and allows you to view different screens, from multimedia contents to driving assistance, such as parking cameras and GPS navigation. If you are driving the vehicle, only look at the screen when it is completely safe. It is therefore recommended to plan the navigation route before moving the vehicle, respecting the rules.

The installation of the product must be done by professional technicians. Always contact a ZAPCO Authorized Dealer.

Before you start your installation

ZAPCO highly recommends that a fuse or circuit breaker be placed within 18" of the battery. The protection device should be placed where it can be accessed easily and all wiring should be routed safely and correctly according to the following guidelines:

- Do not run wiring close to hot or spinning objects
- Always use wire grommets when routing wire through the firewall or any other metal panels
- Make sure that the potential for pinched wiring is avoided by routing all wires away from moving objects, including brake, gas and clutch pedals, etc.

Planning your power connections

- The +12V B is the main power input. This must be connected to the vehicle battery's positive (+) terminal
- The GND is the main ground or negative connection. This must be securely attached to bare metal at the vehicle frame

Protecting the LCD panel

Do not expose the LCD screen to direct sunlight when the product is not used. This may result in LCD malfunction due to the high temperatures. Be sure to touch the panel gently and only with your finger. Using sharp objects may cause scratches and malfunctions.

IT Istruzioni Generali

Il sistema multimediale è dotato di diverse funzioni e permette di visualizzare diverse schermate, da contenuti multimediali ad assistenza alla guida, come le videocamere di parcheggio e la navigazione GPS. Se si è alla guida del veicolo, guardare lo schermo solo in condizioni di totale sicurezza. Si raccomanda pertanto di pianificare prima ed esaminare il percorso di navigazione prima di muovere il veicolo, rispettando le regole.

L'installazione del prodotto deve essere effettuata da tecnici professionisti. Rivolgersi ad un Rivenditore Autorizzato ZAPCO.

Prima di iniziare l'installazione

ZAPCO consiglia vivamente di posizionare un fusibile entro 18" dalla batteria. Il dispositivo di protezione deve essere posizionato in un punto di facile accesso e tutti i cablaggi devono essere instradati in modo sicuro e corretto secondo le seguenti linee guida:

- Non eseguire il cablaggio vicino ad oggetti caldi o taglienti
- Utilizzare sempre i passacavi quando si instrada il cavo attraverso pannelli metallici
- Assicurarsi che venga evitato il rischio di schiacciamento dei cavi allontanando tutti i cavi da oggetti in movimento, inclusi i pedali del freno, dell'acceleratore e della frizione

Pianificare l'alimentazione

- Il +12V B è l'ingresso di alimentazione principale. Questo deve essere collegato al terminale positivo (+) della batteria dell'auto
- Il GND è la massa principale o il collegamento negativo. Questo deve essere fissato saldamente al metallo del telaio del veicolo

Proteggere lo schermo LCD

Non esporre lo schermo LCD alla luce solare diretta quando il prodotto non è in uso. Ciò può causare malfunzionamenti del display LCD a causa delle alte temperature. Assicurarsi di toccare il pannello delicatamente e solo con le dita. Usare oggetti appuntiti può causare graffi e malfunzionamenti.

DE Allgemeine Anweisungen

Das Multimediasystem bietet verschiedene Funktionen und ermöglicht die Anzeige verschiedener Bildschirme, von Multimedia-Inhalten bis hin zu Fahrassistenzsystemen wie Parkkameras und GPS-Navigation. Schauen Sie während der Fahrt nur dann auf den Bildschirm, wenn dies völlig sicher ist. Es wird daher empfohlen, die Navigationsroute vor Fahrtantritt unter Beachtung der Vorschriften zu planen.

Die Produktinstallation sollte von professionellen Technikern durchgeführt werden. Wenden Sie sich immer an einen Autorisierten ZAPCO-Händler.

Bevor Sie mit der Installation beginnen

ZAPCO empfiehlt dringend, eine Sicherung innerhalb von 18 Zoll von der Batterie zu platzieren. Der Schutz muss an einer leicht zugänglichen Stelle angebracht werden und die gesamte Verkabelung muss gemäß den folgenden Richtlinien sicher und korrekt verlegt werden:

- Verkabeln Sie das Gerät nicht in der Nähe von heißen oder scharfen Gegenständen
- Bei der Kabeldurchführung immer Kabelverschraubungen verwenden Metallplatten
- Stellen Sie sicher, dass die Gefahr eines Einklemmens des Kabels vermieden wird, indem Sie alle Kabel von sich bewegenden Objekten fernhalten, einschließlich Brems-, Gas- und Kupplungspedale usw

Planen Sie die Stromversorgung

- +12V B ist der Hauptstromeingang. Dieser muss an den Pluspol (+) der Autobatterie angeschlossen werden
- Der GND ist die Hauptmasse oder negative Verbindung. Dieser muss sicher am Metall des Fahrzeugchassis befestigt sein

Schutz des LCD-Bildschirms

Setzen Sie den LCD-Bildschirm nicht direkter Sonneneinstrahlung aus, wenn das Produkt nicht verwendet wird. Dies kann aufgrund der hohen Temperaturen zu Fehlfunktionen des LCD-Bildschirms führen. Berühren Sie den Bildschirm vorsichtig und nur mit den Fingern. Die Verwendung scharfer Gegenstände kann Kratzer und Fehlfunktionen verursachen.

FR Instructions Générales

Le système multimédia est équipé de différentes fonctions et vous permet d'accéder à différents écrans, allant des contenus multimédias aux aides à la conduite, comme les caméras de stationnement et la navigation GPS. Si vous conduisez, ne regardez l'écran que lorsque vous êtes en sécurité. Il est donc recommandé de planifier l'itinéraire de navigation avant de déplacer le véhicule, en respectant les règles. L'installation du produit doit être effectuée par des techniciens professionnels. Contactez toujours un Revendeur agréé ZAPCO.

Avant de commencer votre installation

ZAPCO recommande fortement qu'un fusible ou un disjoncteur soit placé à moins de 18 pouces (moins de 45 centimètres) de la batterie. Le dispositif de protection doit être placé là où il est facilement accessible et tout le câblage doit être acheminé en toute sécurité et correctement selon les directives suivantes:

- Ne faites pas passer le câblage à proximité d'objets chauds ou en rotation
- Utilisez toujours des passe-fils lorsque vous faites passer le fil à travers le pare-feu ou tout autre panneau métallique
- Assurez-vous que tout risque de pincement des câbles soit évité en acheminant tous les fils loin des objets en mouvement, y compris les pédales de frein, d'accélérateur, d'embrayage, etc.

Planification de vos connexions électriques

- Le +12V B est l'entrée d'alimentation principale. Celui-ci doit être connecté à la borne positive (+) de la batterie du véhicule
- Le GND est la masse principale ou connexion négative. Celui-ci doit être solidement fixé au métal nu sur le châssis du véhicule

Protection de l'écran LCD

N'exposez pas l'écran LCD à la lumière directe du soleil lorsque le produit n'est pas utilisé. Cela pourrait entraîner un dysfonctionnement de l'écran LCD en raison des températures élevées. Veillez à toucher l'écran délicatement et uniquement avec les doigts. L'utilisation d'objets pointus peut provoquer des rayures et des dysfonctionnements.

ES Instrucciones Generales

El sistema multimedia está equipado con diferentes funciones y permite visualizar distintas pantallas, desde contenido multimedia hasta asistencia a la conducción, como cámaras de aparcamiento y navegación GPS. Si conduce el vehículo, mire la pantalla solo cuando sea completamente seguro. Por lo tanto, se recomienda planificar la ruta de navegación antes de mover el vehículo, respetando las normas.

La instalación del producto debe ser realizada por técnicos profesionales. Comuníquese siempre con un Distribuidor Autorizado ZAPCO.

Antes de comenzar su instalación

ZAPCO recomienda encarecidamente colocar un fusible o disyuntor a 18 pulgadas (menos de 45 cm) de la batería. El dispositivo de protección debe colocarse en un lugar de fácil acceso y todo el cableado debe tenderse de forma segura y correcta de acuerdo con las siguientes pautas:

- No tienda cables cerca de objetos calientes o giratorios
- Utilice siempre pasacables cuando pase el cable a través del cortafuegos o cualquier otro panel metálico
- Asegúrese de evitar la posibilidad de que los cables queden atrapados colocando todos los cables lejos de objetos en movimiento, incluidos los pedales de freno, acelerador, embrague, etc.

Planificación de sus conexiones eléctricas

- El +12V B es la entrada de alimentación principal. Este debe conectarse al terminal positivo (+) de la batería
- El GND es la conexión a tierra principal o negativa. Este debe estar firmemente sujeto al metal desnudo en el marco del vehículo

Protección del panel LCD

No exponga la pantalla LCD a la luz solar directa cuando no utilice el producto. Esto podría provocar un mal funcionamiento debido a las altas temperaturas. Asegúrese de tocar el panel con cuidado y solo con los dedos. El uso de objetos afilados puede rayarlo y causar fallos de funcionamiento.

CH 常规安装指引

此多媒体系统配备多种功能,能够显示不同的画面,包括多媒体内容、驾驶辅助信息(如倒车影像和GPS导航)。如果您正在驾驶,请仅在确保完全安全的情况下查看屏幕。因此,建议在启动车辆前,提前规划好导航路线,并遵守相关法规。

产品的安装必须由熟练的技术人员完成,请始终联系 ZAPCO 授权经销商。

开始安装前

ZAPCO 强烈建议在电池附近的 18 英寸 (约 45.7 厘米) 内放置一个保险丝或断路器。保护装置应放置在易于触及的位置,所有布线应根据以下准则安全正确地布置:

- 不要将电线靠近热源或旋转物体
- 在将电线引导穿越防火墙或任何其他金属面板时,务必使用电线防护套
- 确保所有电线远离汽车可以移动的部件,包括刹车,油门和离合踏板等,以避免电线被夹

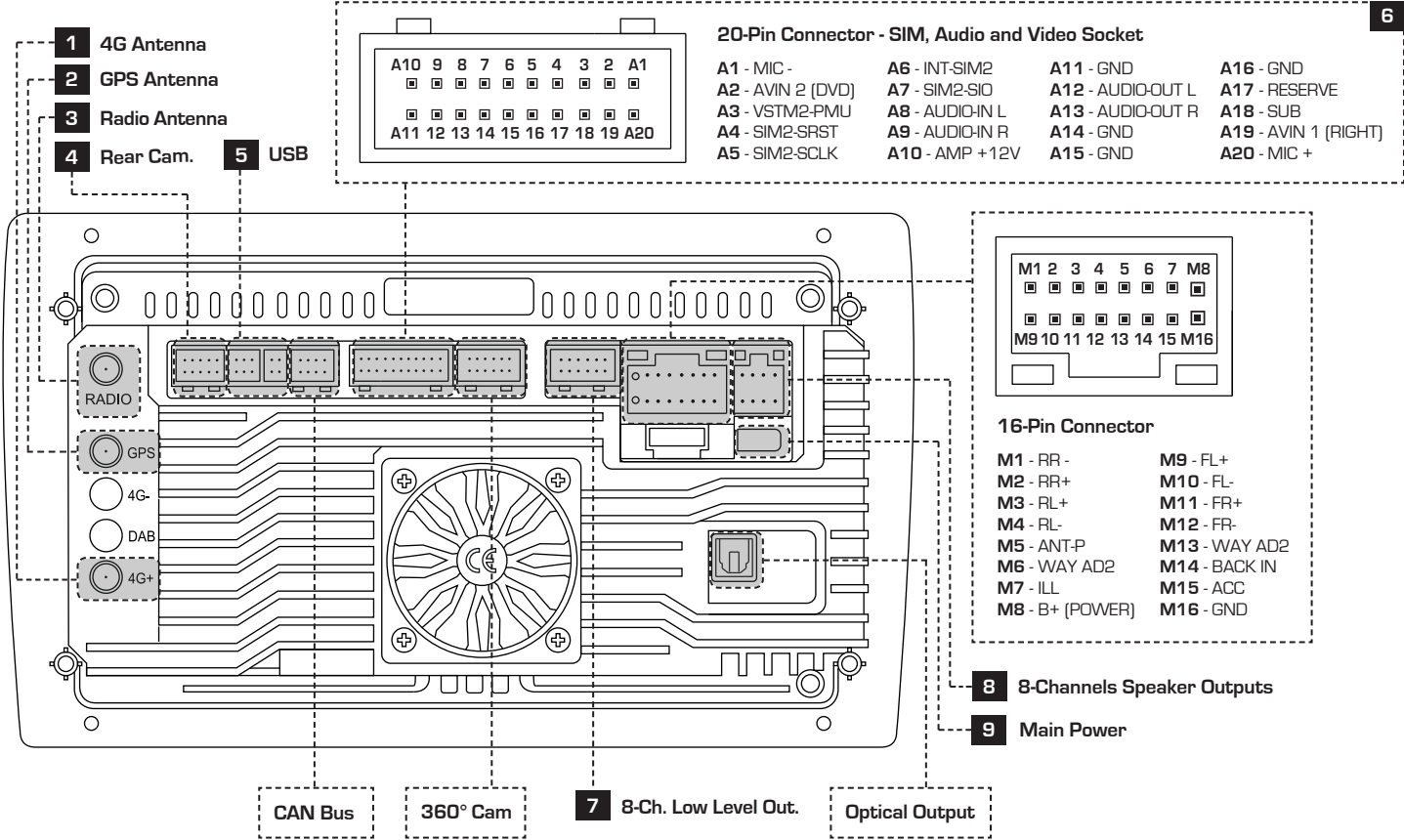
电源连接的准备工

- +12V B 是主要的电源输入,必须连接到车辆电池的正极 (+) 端
- GND 是主要的接地或负极连接,必须牢固地连接到车辆车架上的裸露金属部位

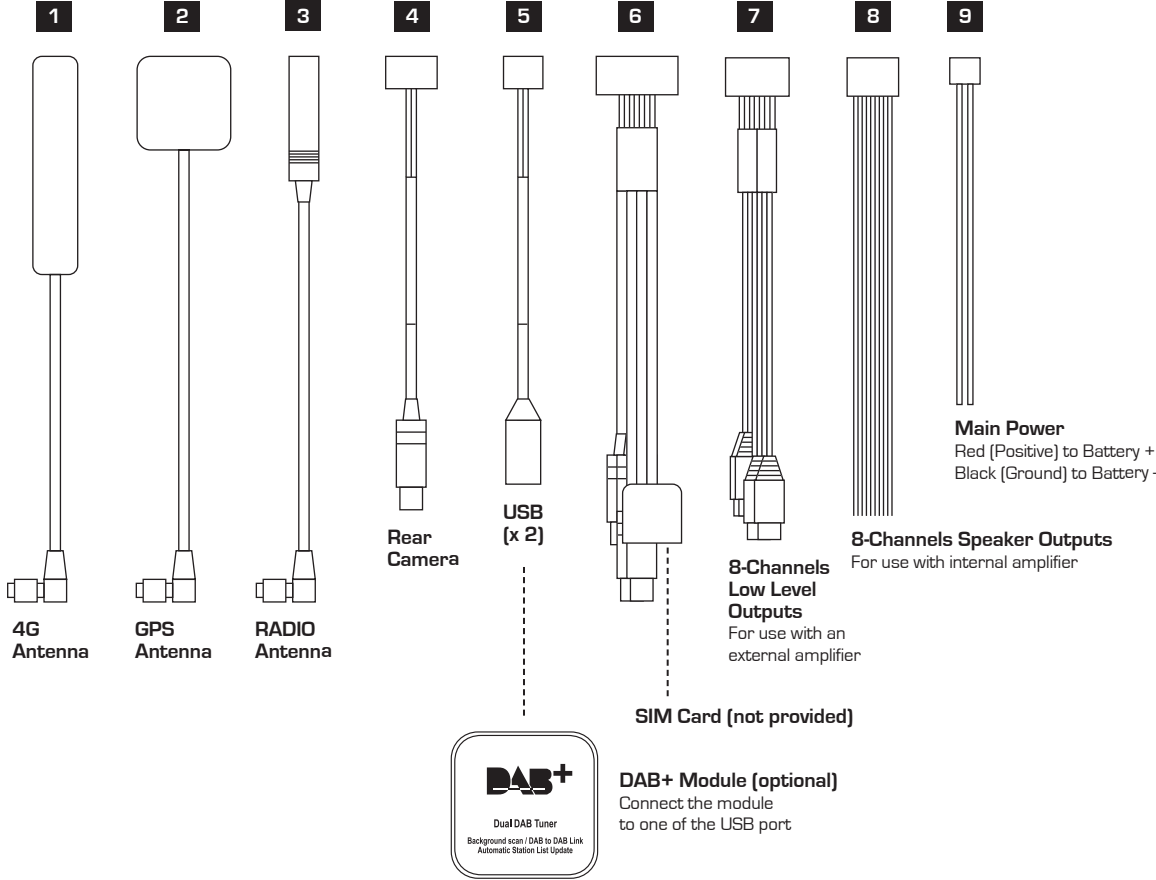
显示屏使用注意事项

请勿将屏幕长时间暴露在阳光直射下,高温可能导致显示异常或损坏。操作时请仅用手指轻触,避免使用尖锐物品,以免划伤屏幕或影响触控功能。

Back Panel and Connections



Cables and Accessories



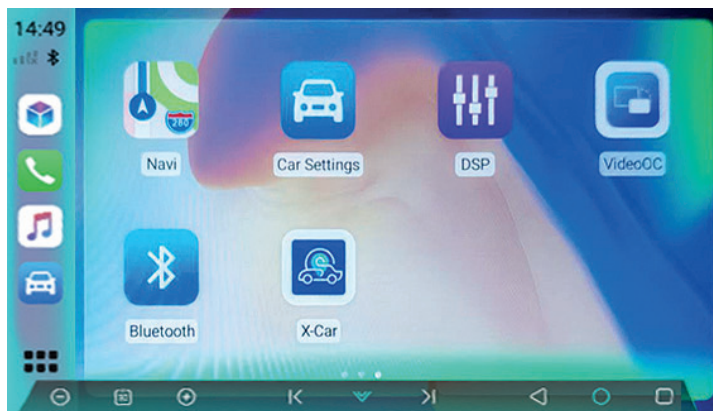
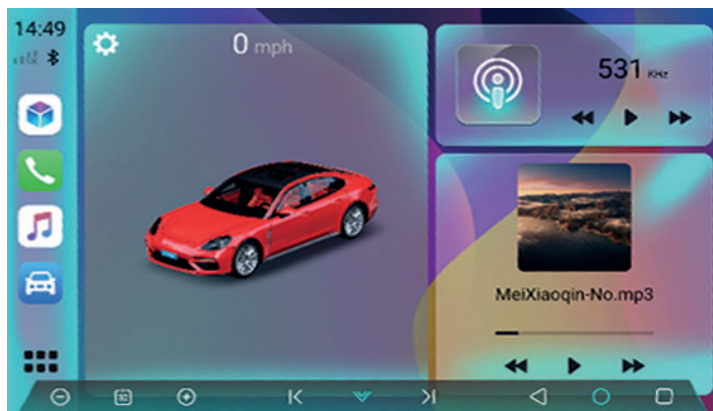
Main Screen

Main page:

- Press  to browse all apps
- Long press the app on the main interface to move or delete
- Long press the date and time to set it

Applications on the bottom bar:

-  **Vol-**
-  **Volume display.** Click to mute, Press and Hold the breath screen to enter the screensaver display
-  **Vol+**
-  **Previous song**
-  **Hide the bottom icon** and click again to restore it
-  **Next song**
-  **Step back**
-  **Return to the main page**
-  **Select or close** a running app



Drop-Down Menu

Tap the top of the screen and swipe down to access the drop-down menu:

WiFi: Press to turn on/off, press and hold to enter the WiFi

Bluetooth: Press to turn on/off, press and hold to enter the BT

Screenshot: Save the picture to the file manager

Car Amplifier: Press to turn on/off the integrated amplifier

Screen off: Press to turn off the screen

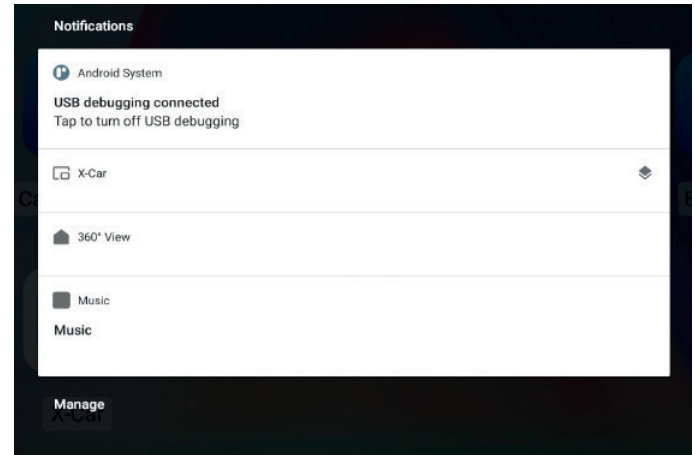
Car settings: Press to enter car settings

Clean-up: Press to clear the device garbage

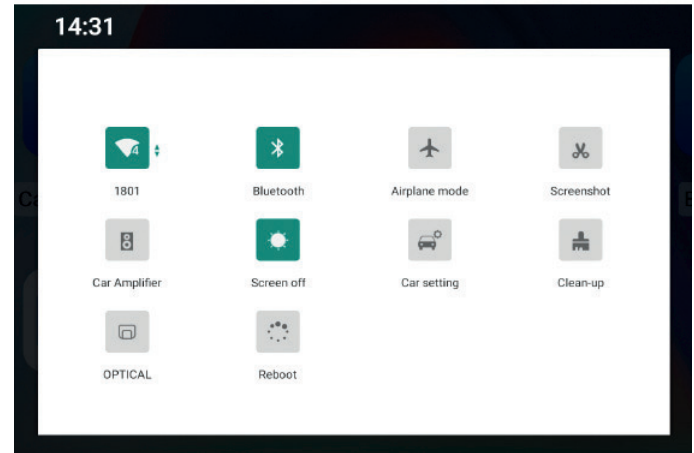
Optical: Press to turn on/off the optical output

Reboot: Press to restart the device

Left sliding notification bar



Right sliding function buttons



Music Player (DSD512)

Only valid when the device has media files.

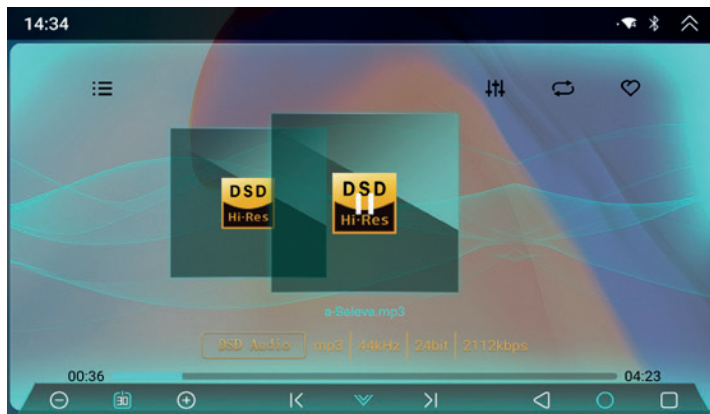
☰ **Playlist:** directory, song, singer, favorites, search

⬆⬆ **Sound effect:** rock, classic, jazz, pop and other modes, can also be customized

↺ **Playback mode:** single loop, listing loop, random play

♥ **Favorites**

How to play U disk audio: Insert the U disk and the music will be played directly in the local music.



Video Player

Only valid when the device has video files.

↺ **Loop play** mode

|| **Pause** ▷ **Play**

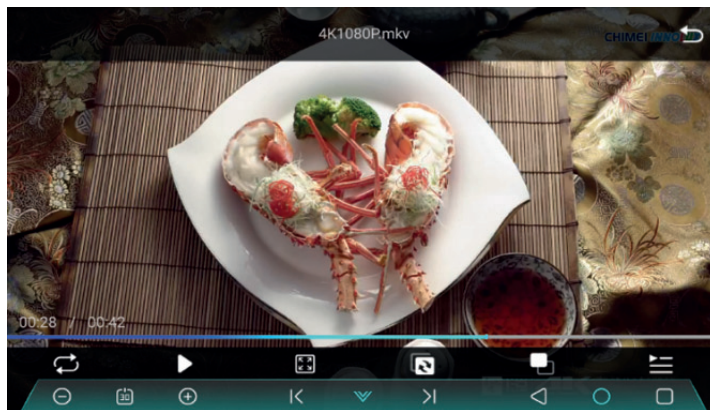
📺 **Screen ratio:** full screen, 4:3, 16:9

🔧 **Decoder mode**

📺 **Dual-screen display:** Background audio playback.

📺 **Picture-in-picture:** Pressing the Home button will bring up a picture-in-picture window. Press the top left corner of the picture-in-picture window and it's restored to full screen

☰ **Video list:** The corresponding playlist is displayed



Radio

The FM/AM bands can store 48 active stations each.

🏠 **Return to main screen**

🔊 **Sound effect settings:** Rock, Classical, Jazz Various modes such as popular and customizable

⏮ **Press to **Switch TO the Previous** radio frequency**
Press and hold to search up for the radio frequency

FM **FM/AM:** FM: 64.0 MHz - 108.0 MHz,
AM: 522 KHz - 1629 KHz

⏭ **Press to **Switch to the Next** radio frequency and hold down to search for the radio frequency**
Auto search: Press Search to perform the automatic search function, and automatically save the searched stations

loc **DX/LOC:** 1) DX: A station that can receive a weak or distant signal 2) LOC: Suitable for listening to stations with strong signals

↶ **Return to previous layer**

ST: Stereo switch during FM radio **TA:** Automatically search for other transmission

AF: Automatic station search **PTY:**Type of broadcast program **TP:** Mandatory traffic information



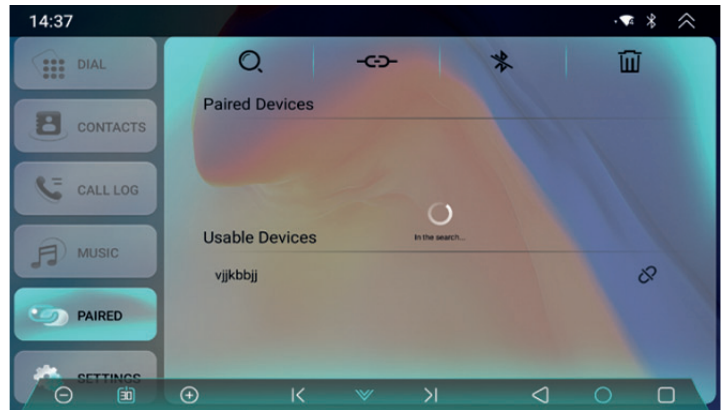
Bluetooth

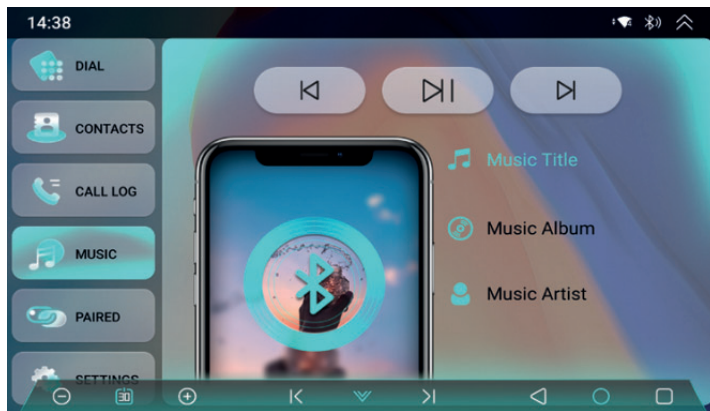
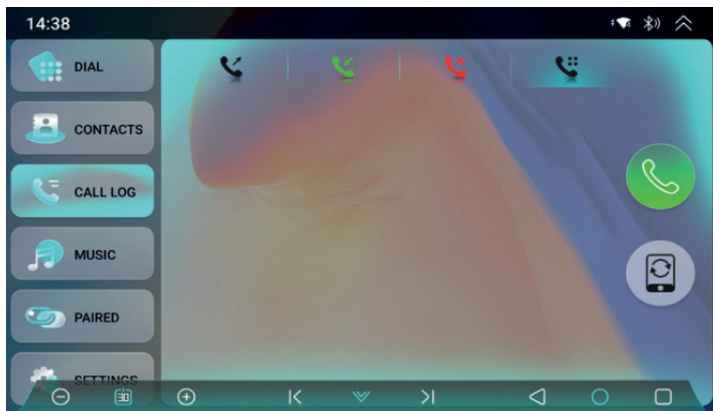
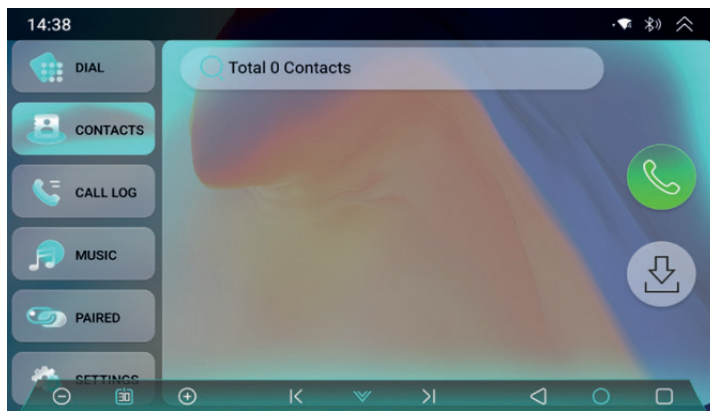
Pairing steps:

- Turn on the Bluetooth on the mobile phone
- Press  to enter the connection interface
- Press 
- Press the device you want to pair
- Enter the PIN code on the mobile phone and the connection is complete

Functions:

- Press  — The phone pops up "Whether to allow access to contact information", and the device will sync the contacts after confirmation (do not operate at will during this process).
- Dialing: Press  to **Dial** or  to **Redial**
- Contacts: Press  to **Sync contacts**  **Call the selected contact**  **Update the contact**, press again to pause
- Call log:  **Call**  **Outgoing call**  **Missed call**  **Update** the call history, tap Stop. Update again  Press to **Switch between the car terminal/mobile terminal**
- Music: When playing Bluetooth music, you should open the mobile music app (Bluetooth music is available after A2DP and AVRCP connection)
- Paired: Search for Bluetooth devices, connect Bluetooth devices, disconnect, delete pairing records
- Settings: View device name and PIN code, as well as other Bluetooth data service, functions. A yellow light indicates that it is selected





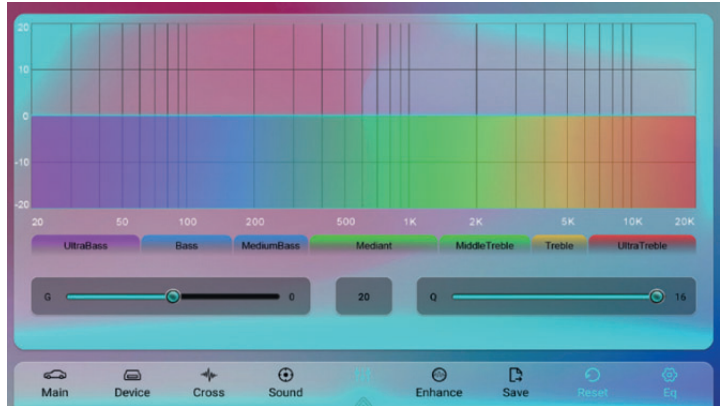
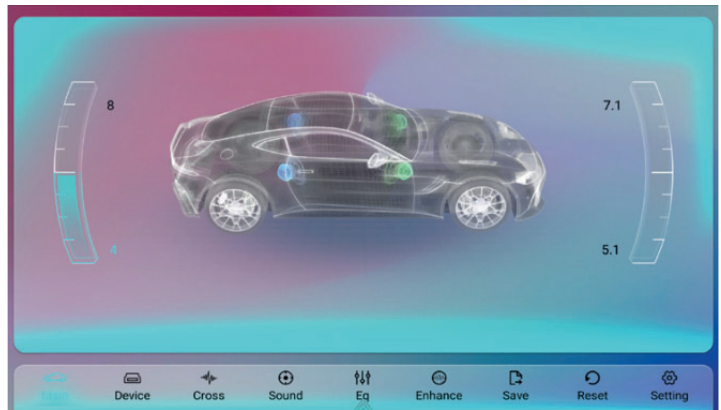
DSP

Main

Speaker Channel: From the basic 4-channel surround, to the 5.1 powerful bass, to the 7.1 stereo surround, to the 8-channel ultimate sound quality enjoyment. Different configurations to meet different hearing needs to create an immersive audio and video experience for you.

Equalization

EQ adjustment, the audio equalizer control. Free adjustment of each frequency band Gain and Q value. Whether it's enhancing the bass shock or improving the pitch sharpness, one-click operation will make the music to your ears.

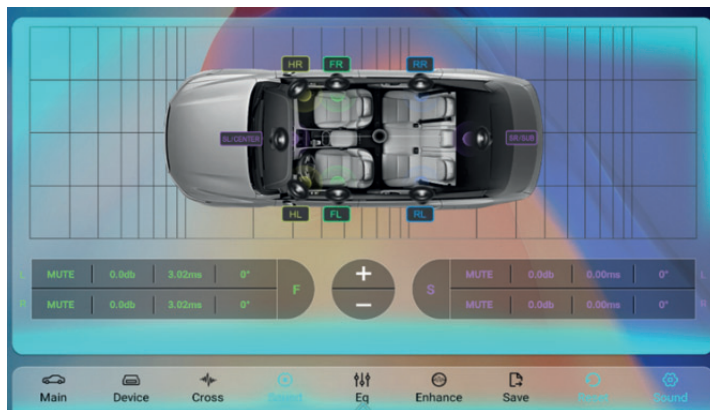
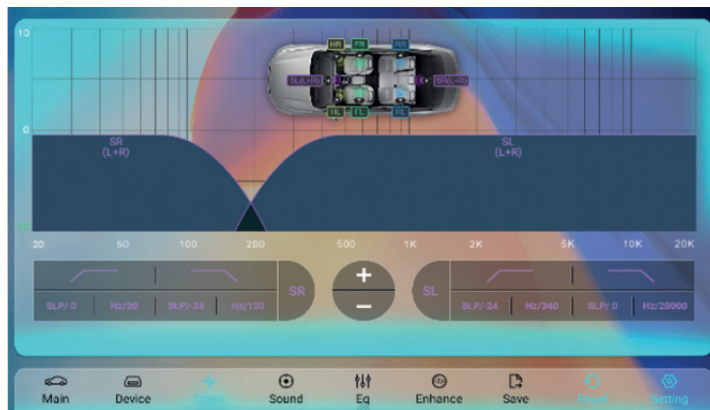


Crossover

Audio crossover technology: Through precise parameter control, the refined adjustment and output optimization of audio signals can be realized. From deep bass to clear highs, each frequency band can be adjusted independently to ensure a balanced and harmonious sound. With our audio crossover control system, it's easy to personalise your audio and make every listening experience an unparalleled listening experience.

Sound

Listening scale adjustment: customize your auditory enjoyment. By fine tuning, optimize the sound direction and distribution, you can enjoy the best sound wherever you are. Easy to create an exclusive music space, so that each listening is more immersive.

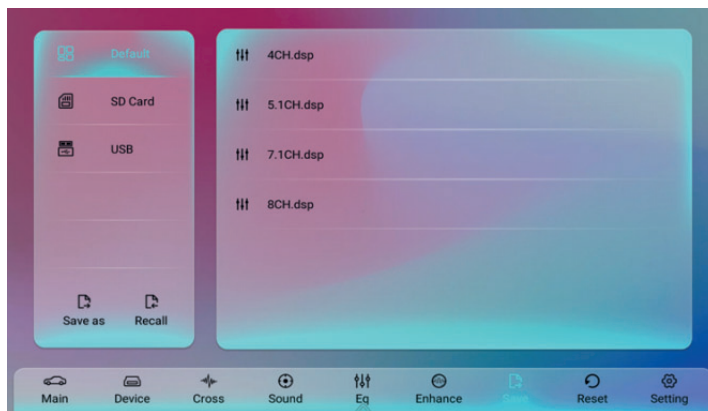
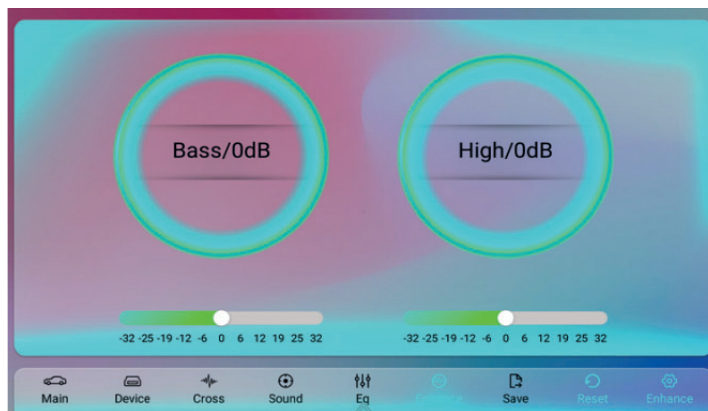


Enhance

Enhance Adjustment: lead a new realm of audio experience. This function intelligently adjusts the high and low sounds according to the volume level to achieve the dynamic enhancement effect. At low volume, improve the pitch and bass to restore the music details; at high volume, strengthen the bass shock and pitch clarity to ensure that the sound quality is not distorted. Whether it is soft jazz or hard rock music, Enhance adjustment can make each melody more vivid and full, bringing you unprecedented auditory enjoyment.

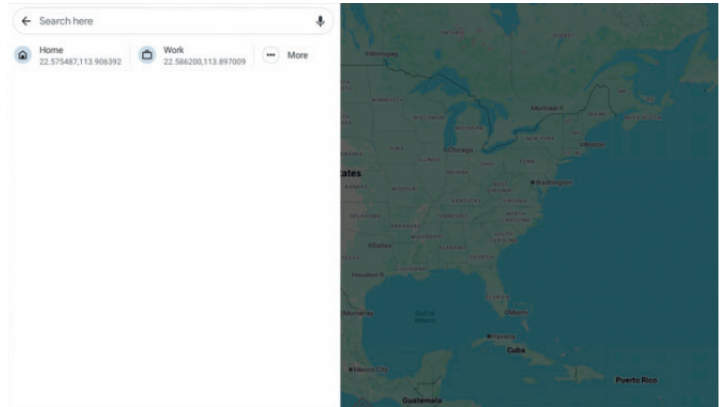
Save

Personalized tuning: you can easily save your exclusive tone, tone parameters, support import and export, and share or migrate your audio preferences anytime, anywhere. Whether professional creation or daily entertainment, can enjoy tailored sound quality enjoyment.



Maps

You need to add an account when you log in for the first time.
Press **Sign In** and enter account information (If you don't have an account, you need to register one).
Press the search box to enter the search interface.



Settings

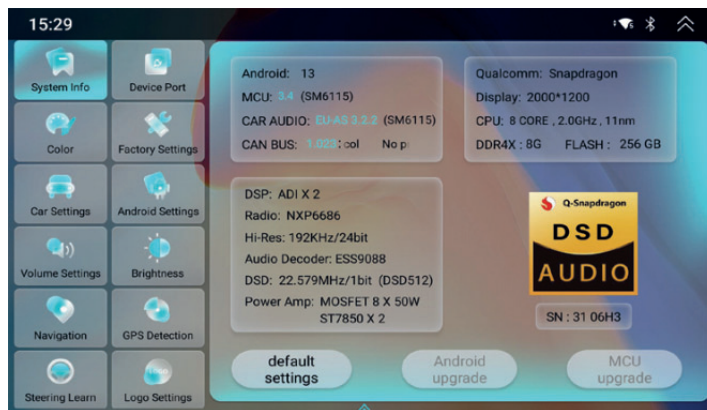
System Info

Contains information such as DDR, FLASH, CPU, etc.

- Press **System Info** to view the SN code of the IVI System
- Press **Default settings** to restore to the factory settings
- Android upgrade/MCU upgrade: Upgrade the Android system version/MCU software to the latest version.

Device Port

Press to view the information corresponding to each port.



Color

Support color personalized Settings, you can choose dark, light or automatic mode, and set automatic switching time.

Key introduction:

- ☀ **Daytime pattern**
- 🌙 **Night mode**
- ⌚ **Light detection**
- 🕒 **Customize the time mode**

Factory Settings

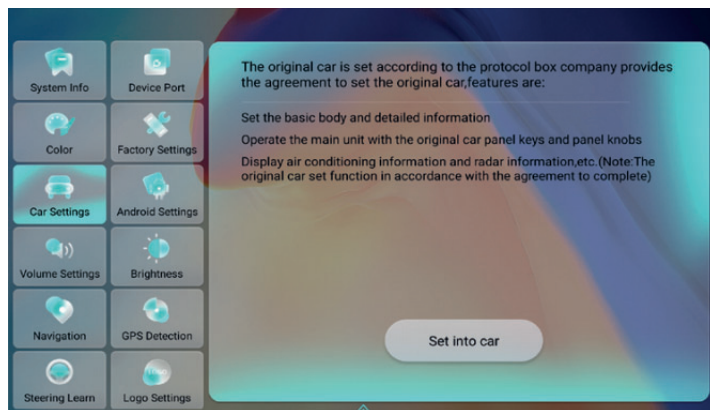
Entering factory settings requires a password (for factory use only).

Car Settings

Set up the original car according to the protocol provided by the protocol box company, the functions are as follows:

- Set the basic information and detailed information of the car
- Operate the car infotainment system through the original car panel buttons and panel knobs
- Display air conditioning and radar information, etc.

(Note: its function is done in accordance with the protocol)



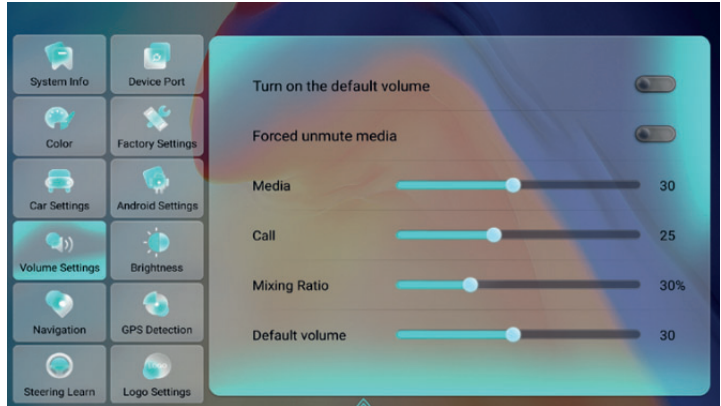
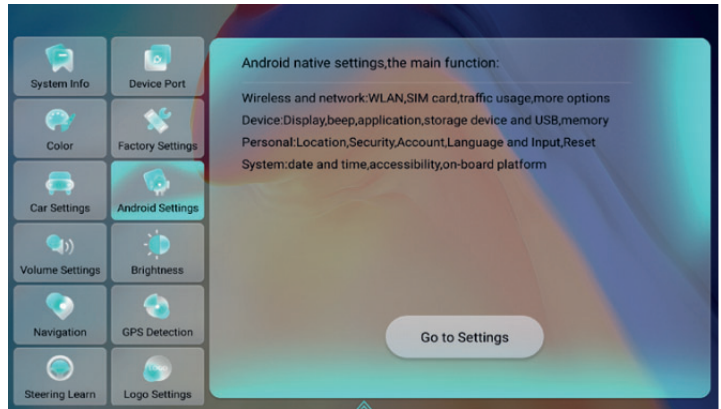
Android Settings

- Wireless and network: WLAN, SIM card, traffic usage, more options
- Device: display, tone, application, storage device and USB, memory
- Personal: location information, safety, account, language and inputting method, reset
- System: date and time, barrier-free, about the car platform

Volume Settings

You can choose whether to use the default media volume.

- Set the **Media volume**
- Set the **Call volume**
- Set the **Mixing ratio**
- Set the **Default media volume**

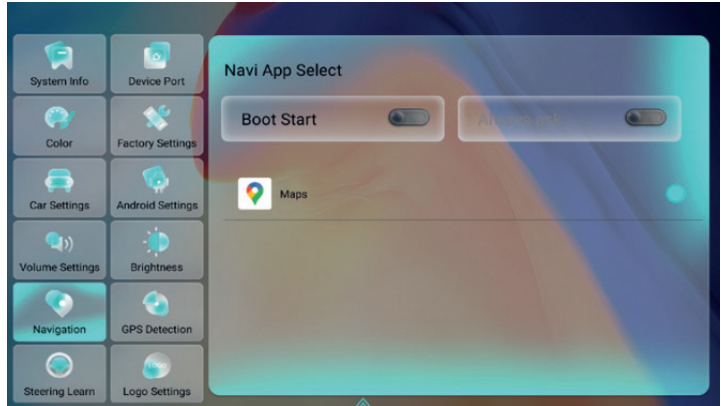


Brightness

- Set the backlight level when the lights are off/on
 - Set eye protection mode when the lights are off/on
- (Note: Press "+ , - " to complete the adjustment)

Navigation

- Select the navigation application
- Settings: Start when booting/always ask



GPS Detection

View the relevant information of the GPS, press ↻ to **Restart the GPS**

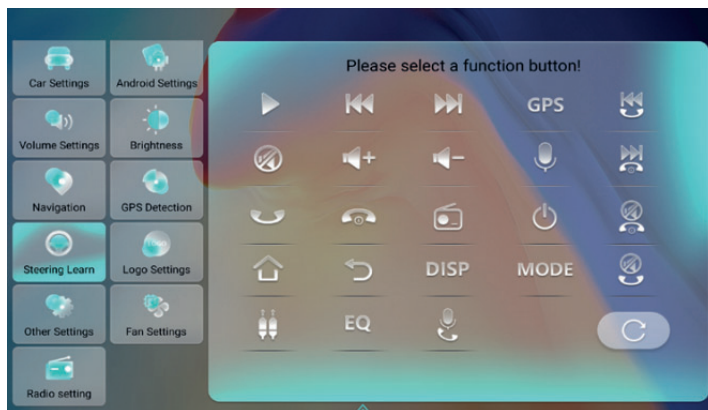
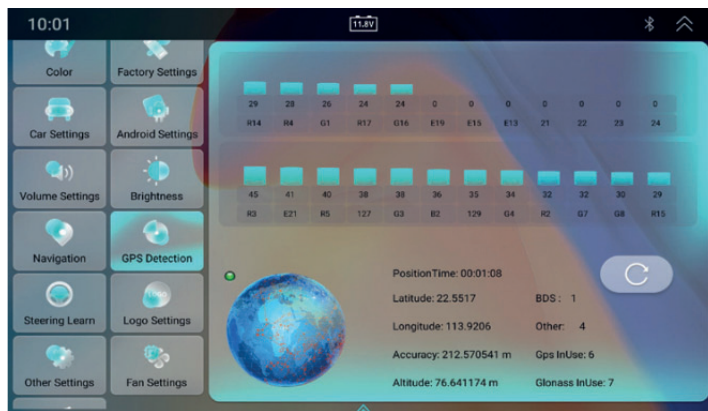
Steering Learn

Learning steps:

- Press the function button you want to learn on the device ("Please select a function button" will be prompted on the screen)
- Press and hold the corresponding button on the steering wheel (The operation times out and needs to be relearned). Repeat steps 1-2 until the required buttons on the steering wheel are fully learned.

Note: Pressing ↻ will **Clear the learning**

- Suitable for the steering wheel of the original car with non-bus control mode.
- The steering wheel buttons of the original car must be controlled by voltage input method.

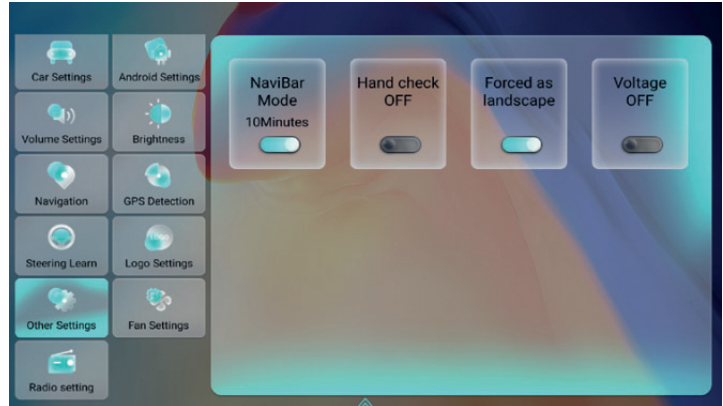
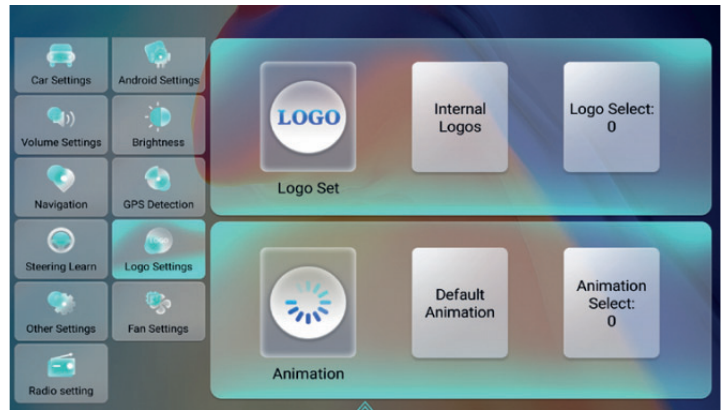


Logo Setting

- Select the logo file to set
- Animation settings: Select the animation file to set

Other Setting

- Hover navigation bar on/off
- Hand Brake on/off
- Forced mode on/off
- Reverse silent on/off



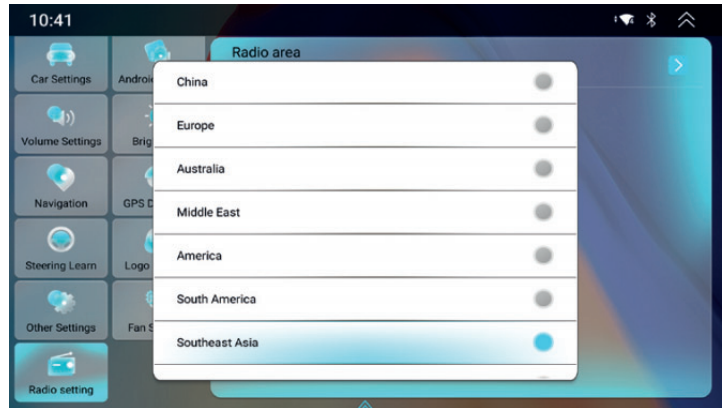
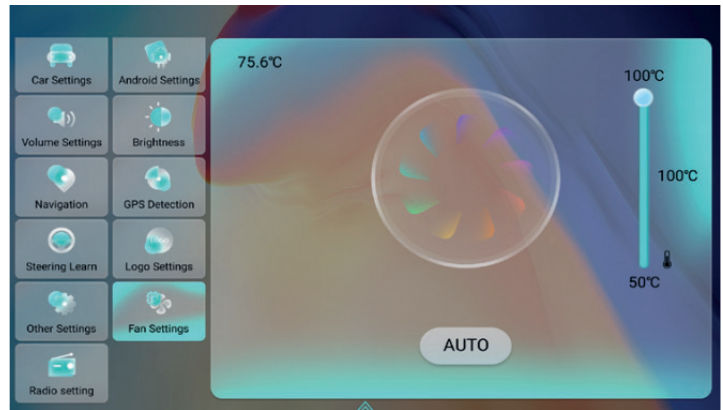
Fan Setting

Fan start mode:

- Normally open mode
- Automatic open mode

Radio Setting

Radio setting: Switchable radio region.



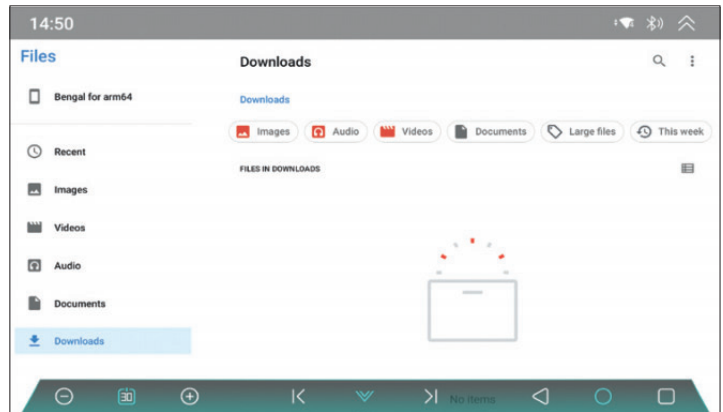
Others

Avin

- Press  in the lower right corner to **Enter**
 - Press  to return to the **Previous operation**
- After accessing the signal, the IVI System displays the video screen.

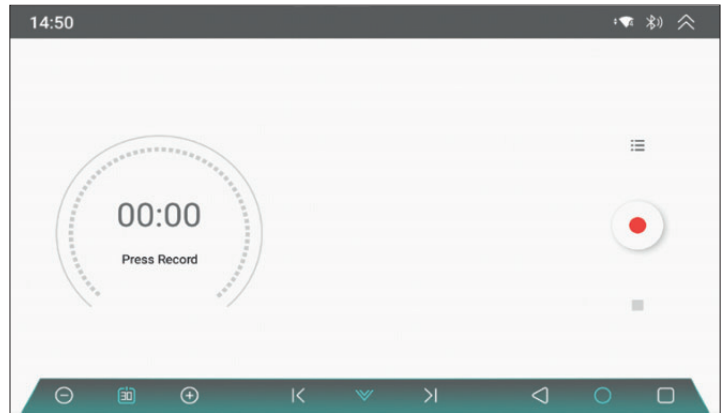
File Manager

- A powerful and easy-to-operate resource management software. Categorize and manage music, videos, picture libraries, applications, documents, etc.
- Efficiently find target resources, install applications, copy, delete, create, view information, cut and other functions of files are readily available
- Real-time memory reminder to avoid lowering user experience caused by system lag. At the same time, it also supports the operation of external devices such as U disk and SD card



Sound Recorder

- Press ●/|| to **Start/Pause** recording
- After recording, press ■ to choose to **Abandon/Save**
- Press ≡ to **Select** the recording file



Connections

Introduction

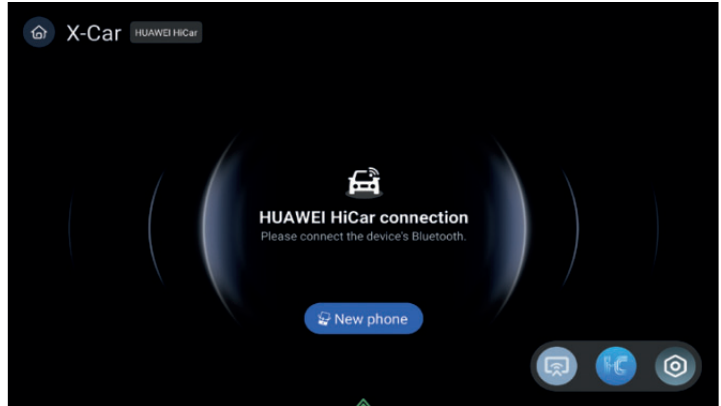
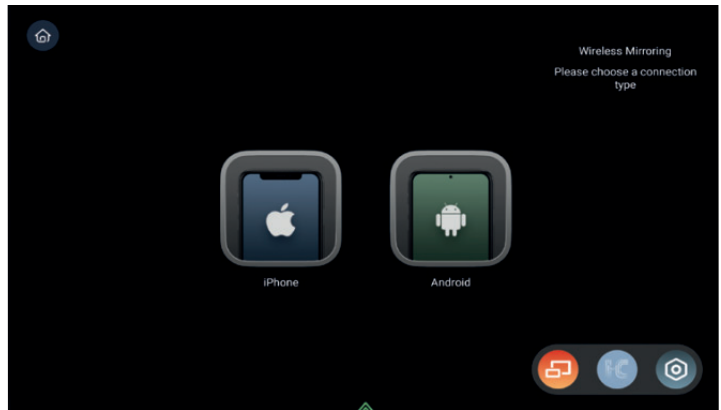
X-Car is an intelligent car mobile interconnection software. Controlling navigation, music, and answering phone calls on the in car display screen enhances the driving experience and sense of security for car owners. Internet activation is required before using X-Car.



App Introduction

Supports wireless CarPlay, wireless Android Auto, wireless HiCar, and screen mirroring functions

- Press  to **Switch** and  to **Enter screen mirroring mode** and click again to switch back to mobile internet mode.
- Press  to **Switch HiCar mode**.

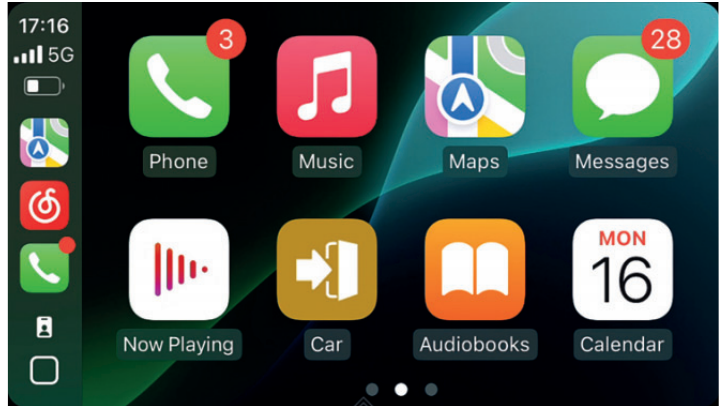
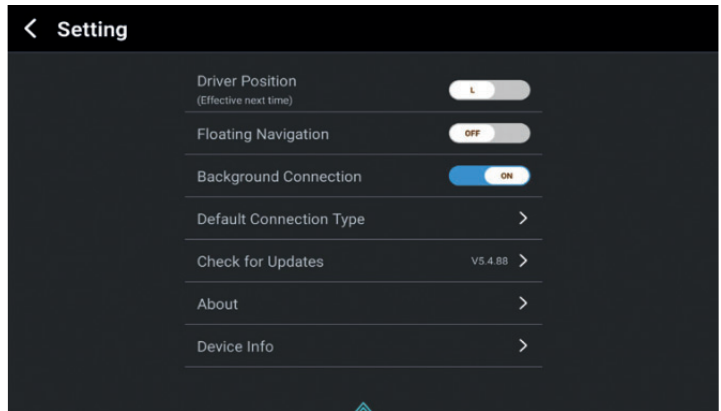


Wireless CarPlay Connection

- Connect the iPhone to the USB OTG interface of the IVI System
- Successful Bluetooth connection will automatically redirect to the CarPlay interface for connection
- After the connection is successful, the IVI System will display the application, iPhone's Bluetooth is automatically disconnected
- Meanwhile, the phone's WiFi will automatically connect to the hotspot of the IVI System
- Disconnect mode: Turn off WiFi and Bluetooth (if Bluetooth is not turned off, Carplay will be connected automatically)

Wireless CarPlay Connection Steps

- Connect iPhone to the vehicle's Bluetooth.
- After successful Bluetooth pairing, Automatic go to the CarPlay interface (Ensure you accept the CarPlay pop-up confirmation on your iPhone during pairing)
- The iPhone will automatically connect to the vehicle's Wi-Fi hotspot
- Connection completion (The Bluetooth connection will automatically disconnect)
- Disconnection method: Turn off Wi-Fi and Bluetooth on your iPhone (if Bluetooth remains enabled, CarPlay may auto-reconnect)



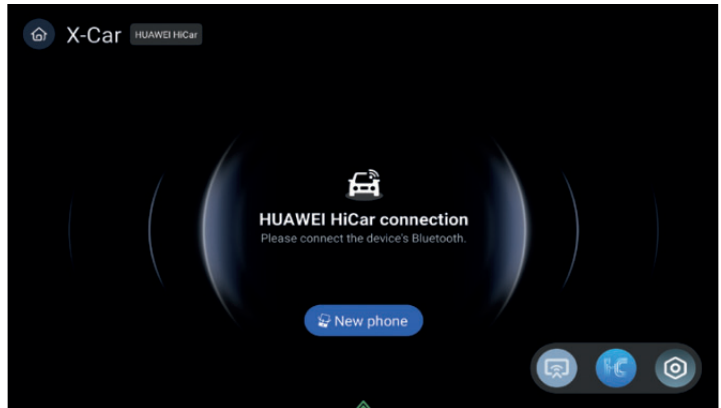
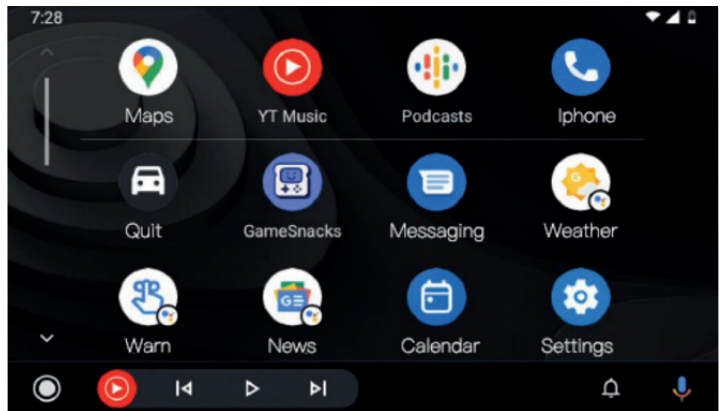
Wireless Android Auto Connection Steps

- Connect the mobile phone to Bluetooth of the IVI System
- After the connection is successful, the IVI System will display the app page (Meanwhile, the phone's WiFi will automatically connect to the hotspot of the IVI System.)
- Android Auto calls are made through Bluetooth phones.

Wireless Huawei HiCar Connection Steps

Huawei mobile phone connected to car's Bluetooth.

- Press  to **Enter** the HUAWEI HiCar connection page
- Press the new phone connection button on the car's infotainment system to generate a connection code
- At this moment, the HiCar interconnection interface automatically pops up on the phone
- Press the **Connection button**
- Pop up the box and enter the connection code generated by the car machine. The connection is successful.
- Disconnecting method: Turn off the shortcut button displayed on the top of the phone, click on disconnect and turn off Bluetooth.

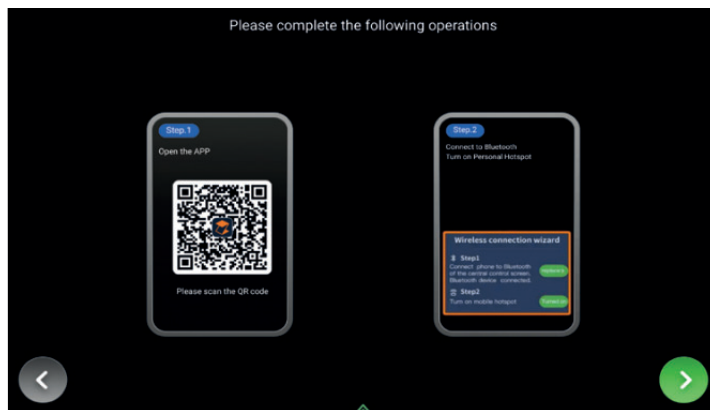
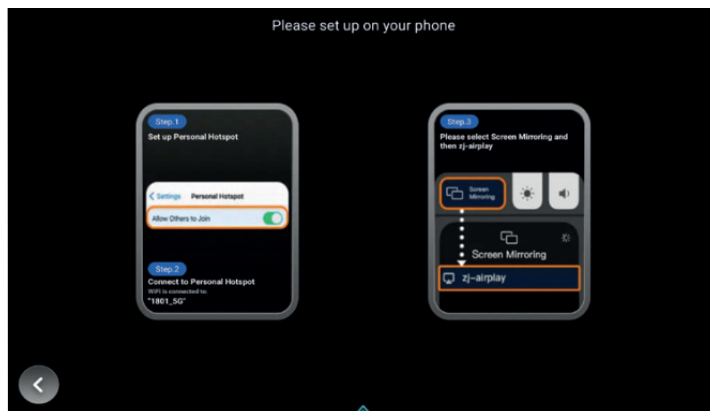


iPhone Wireless Screen Mirroring

- Press the **iPhone Icon** on the car's infotainment system to open the phone's hotspot, and connect the infotainment system to the phone's hotspot
- Select **Screen mirroring** in the mobile control center, then choose zj air play, and the screen mirroring operation is successful

Android Wireless Projection

- Press the **Android Icon**, scan the QR code, and download Step 1 to the Add App.
- According to Step 2, turn on your phone's Bluetooth.
- After the Bluetooth connection is successful, turn off your phone's WIFI and turn on your phone's hotspot
- According to Step 3, connect the car phone to the hotspot and select wireless connection. Enter the wireless connection wizard and refer to the image on the right
- Click on the mobile app **Start screen casting** Screen casting operation successful



360° View

Camera

Support 360° panoramic view.

 **Front view** and  **Rear view**

 **Left view** and  **Right view**

 **Left and right front view**

 **Left and right rear view**

 **3D Look Around.** You can view the environment around the car from different angles.

 **Car Model Store.** After connecting to the Internet, you can browse and purchase car models.

 **Basic.** Including Starting engine to rotate, Record status, Default rear, Turning delay, Reversing delay, etc. Turning signal trigger on, Record device, Record quality, etc.

 **Car model.** Browse car models from 3D perspective. You can choose model color, brightness, shiiness, logo and set personalized license plate.

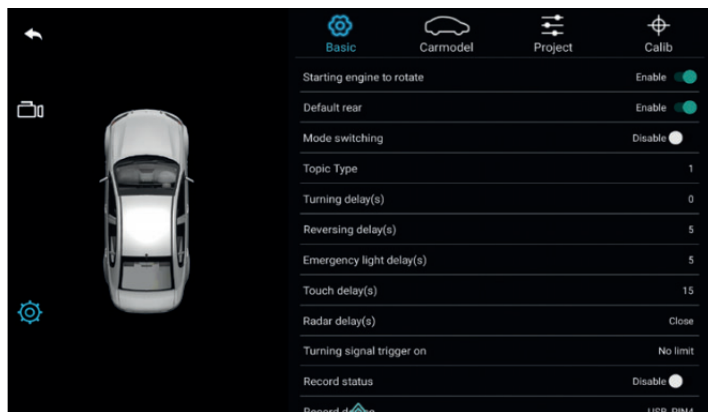
 **Project.** Need to enter a password: 4321

Including: Radar display, Front track, Rear track, Rear aux, Perspective follow, Shadow switch, etc.

 **Calib.** Need to enter a password: 4321

Contains calibration parameters: Lens, Sensor, Front offset, Marking line, Car model, Car length, Car width, etc.

It can be automatic calibration, manual calibration



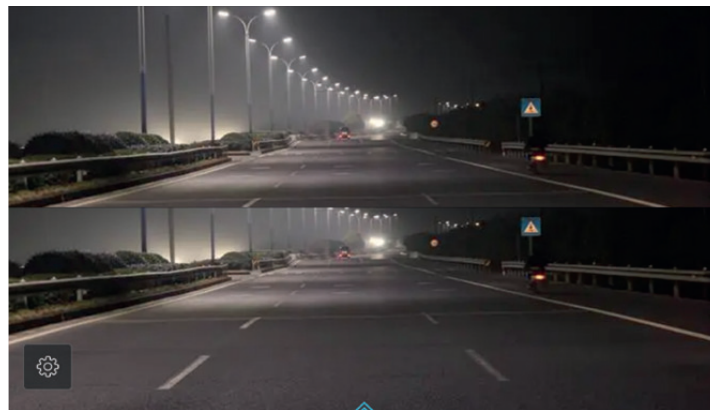
DVR (optional)

Double Camera Streaming

- **Front view**  Check the track ahead
- **Rear view**  Check the rear track

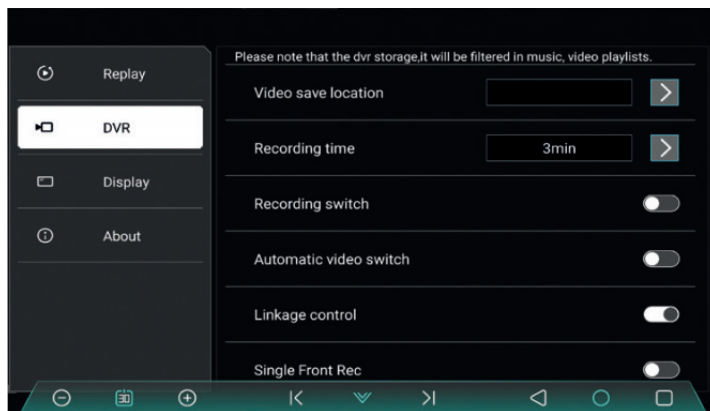
Function Introduction

- **Video recording:** Click to start recording and click again to stop recording
- 🔒 **Lock:** After a video is locked, the video will not be automatically deleted, but the memory usage will be affected
- 🔄 **Toggle:** Switch the current screen display front or rear view
- ⚙️ **Display effect adjustment:** brightness, contrast, saturation



Settings

- ▶ **Playback:** Video playback function, easy to view the video
- ▶ **Video Settings:** Flexible configuration of video parameters, supporting video storage location, duration and other modes, to ensure that important scenes are not missed, safe and reliable
- ▶ **Display Settings:** You can set the display time, front view, and reverse camera system (such as AHD1080P/25fps, AHD720P/25fps, etc.)
- ▶ **About:** System version



Technical Specifications

HB MS 98256

System	Android 13
CPU	Qualcomm 8 Core, Clock Speed: 6115/2.0 GHz/11 nm
DDR Memory	8 GB High-Speed DDR4/3600 MHz
Flash Storage	256 GB/UFS 2.0
Connectivity	HD/Hi-Res WiFi 6 Wireless, CarPlay, Android Auto, HiCar, 4G
WiFi	Qualcomm WCN3950, Frequency: WiFi 6/2.4 GHz, 5 GHz, Supports IEEE802.11 B/g/n compatible WLAN
DSD	DSD512, 22.579 MHz/1-bit
DSP	ST/ADI (4/5.1/6/7.1/8-Channel) Active Crossover
Audio Decoder	ESS9088 HD Audio Decoder/ADI Audio Decoder
Camera	Supports AHD, TYI, CVBS Progressive (Customizable Options: 720P/1080P/360, Front and Rear Record , Single Reverse)
Display Resolution	2000*1200 Pixel
TFT Driver Chip	Qualcomm HD MIPI/LVDS
GPS	Qualcomm WTR2965 GPS + Glonass + Beidou, GPS + Glonass + Galileo
Bluetooth	Qualcomm WCN3950 Bluetooth 5.1, LDAC Hi-Res Audio
Power Amplifier	ST7850 Mosfet 8 x 50W
Radio	AM/FM RDS (8035/OE-Specific NXP6686), FM: 76.0 MHz-108.0 MHz
USB Type	USB 2.0 x 3 Ports, Sockets: USB 1, USB 2, Expansion: 2 TB Hard Drive
SD Card Interface	Customizable FPC Socket
DVR	Supports H264, H265, MP4
Video Input	Supports 2 Channels of CVBS/AHD
Video Output	Optional Video Output via USB/HDMI or CVBS Daughterboard
Video Formats	MPEG-1/2/4, H264, H263, VC1, RV, RMVB, DivX, Sorenson Spark, Spark, VP8, AVS Stream, MKV
Audio Inputs	AUX-L, AUX-R, iPod-L/R
Audio Outputs	L+R Audio Output, Subwoofer Output, Digital Optical Output, 8-ch. 3V/6V Low-Level Analog Output
Audio Formats	MP3, WMA, AAC, RM, FALC, WAV (192KHz/Hi-Res, 512DSD ultra-high-definition audio)
Photo Formats	JPG/BMP/JPEG/GIF/PNG
Operating Temperature	-30° - +80° (Max +/- 5°)

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