ONKYO®

INSTRUCTION MANUAL
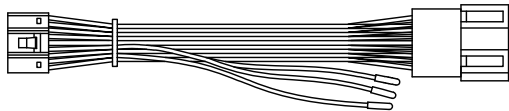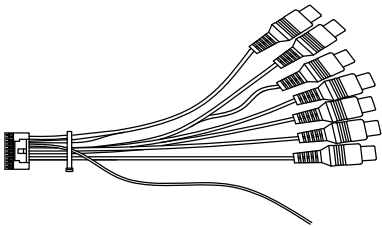# ZA901

CONTENTS

ACCESSORY LIST

Please check the following accessories after opening the package.

Power Cable x1	20P RCA Cable x1

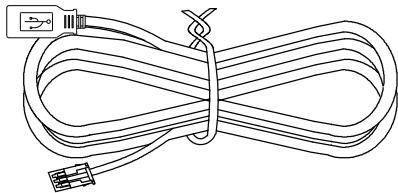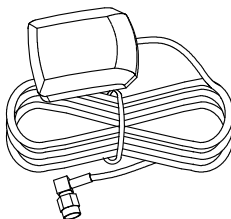| WIFI/BT Creama Cable x1	4P-USB Cable x1
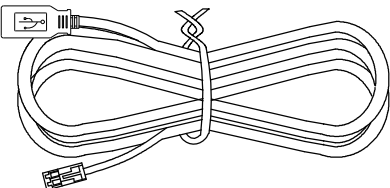
6P-USB Cable x1	GPS Antenna x1

Installation Screw x5	User Manual x1
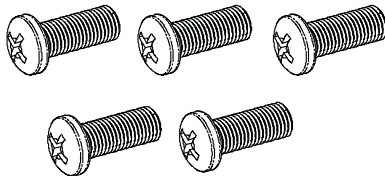
Microphone x1
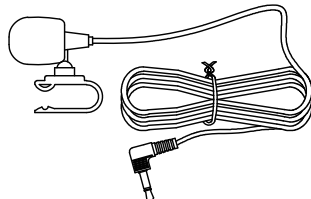
WIRING CONNECTION

A   B   C D E   F
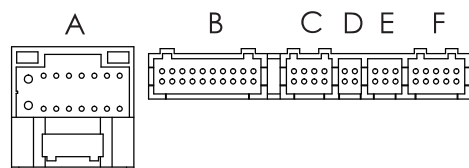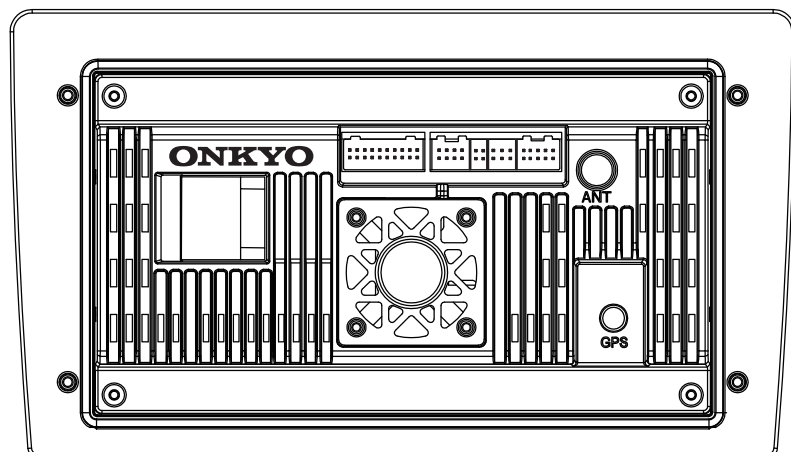
A--Power   D--4P USB
B--AV   E--6P USB
C--Can bus F--Camera

A:Power

Label	Color	Name
	Black	Ground Wire
	Yellow	Battery Wire
	Red	Lgnition Wire
	Orange	Lamp Control Wire
	Pink	Reverse Wire
BACK	Orange/Black	Steering Wheel Control Wire 1
KEY1	Brown/Black	Steering Wheel Control Wire 2
KEY2	Blue	Automatic Antenna
ANT	Gray/Black	Front Right Speaker-
	Gray	Front Right Speaker+
	Green/Black	Rear Left Speaker-
	Green	Rear Left Speaker+
	White/Black	Front Left Speaker-
	White	Front Left Speaker+
	Purple/Black	Rear Right Speaker-
	Purple	Rear Right Speaker+

B:Input/Output

Label	Color	Name
CVBS-IN-1	Yellow	Video Input
AUX IN_L	White	Audio Left Input
AUX IN_R	Red	Audio Right Input
AUDIO OUT L	White	Audio Front Left Output
AUDIO OUT R	Red	Audio Front Right Output
SUB WOOFER	Blue	Audio Subwoofer Output
MIC	Black	External Microphone Port
AMP_POW	Blue	Amplifier Control wire

D:4P USB

Pin	Name	Pin	Name
1	USB_5V	3	USB_DP0
2	GND	4	USB_DM0

C:Can bus-no wire rod

Pin	Name	Pin	Name
1	GND	5	PWR_CON
2	NC	6	AUX AUDIO_IN
3	NC	7	NC
4	CAN_TX	8	CAN_RX

F:Camera Input

Label	Color	Name
BRAKE	Blue	Wifi Antenna
B.CAMERA	Pink	Brake Detection wire
	Yellow	Back Camera Input
	Blue	Bluetooth Antenna

E:6P USB

Pin	Name	Pin	Name
1	USB_5V	4	USB_DP1
2	GND	5	USB_DM1
3	NC	6	NC

PANEL OPERATION

Function	Operations & Controls
1. MIC	Invalid, please use external microphone.
2. RST	Press with a pointed object (such as a ball point) to reset the unit to its initial setting by the factory (default stage).
3. Power ⏻	In the power-on state: Press to Mute. Press and hold for more than 5 seconds to turn off the screen.
4. Home ▢	Press to enter main menu.
5. Return ⤺	Press to back to previous.
6. Volume ∧	Short press to increase volume.
7. Volume ∨	Short press to decrease volume.

HOME MENU

Upon booting, the unit will enter to home menu, as shown below.

THE FUNCTIONS ARE AS FOLLOWS:

Click to enter music interface.

Click to enter Radio interface.

Click to enter AplePlay / Airplay.

Click to enter Android Auto / Android Link,

Click to enter EQ adjustment.

Click to enter car settings interface.

Click to enter add app interface.

Click to enter maps interface.

Click to enter Bluetooth interface.

Click to enter AplePlay / Android Auto / Airplay / Android Link.

Click to enter menu interface.

Click to enter Shutdown interface.

HOME

Back   Task

Home   Screen off   Status Bar

Navigation

Bluetooth

Phone connection

Music

Menu

Shutdown

Radio

AplePlay

Setting

EQ   Add app

Android Auto

DROPDOWN MENU

Slide your finger down the top edge to trigger the drop-down menu page;
Swipe downagain on the drop-down menu page to pull up the brightness
adjustment.

WLAN:Tap to turn on/off Wlan,
long press to enter the
WLAN settings

Clean   Screen brightness

Reset and restart

Notifications

Settings:Tap to enter settings

Bluetooth:Tap to turn on/offBluetooth,
long press to enter Bluetooth
settings
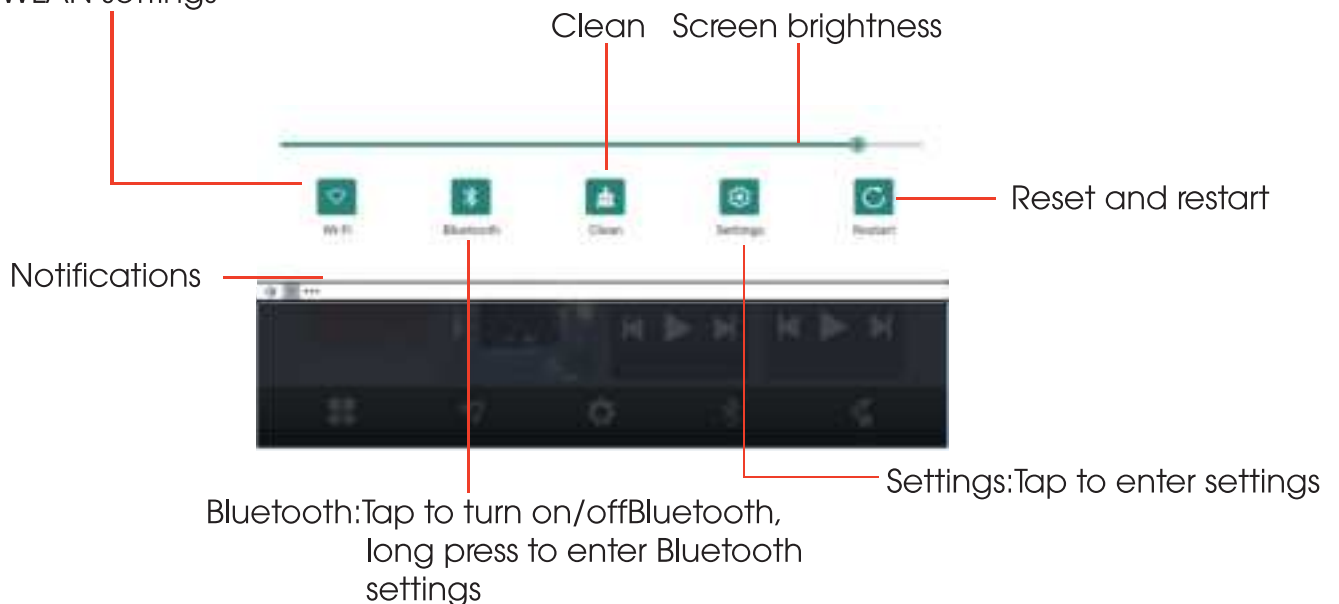
①   Available stations list.

②   Tap it to enter RDS feature settings.

③ ④ Tap it to step manually up and down the frequency.

        Tap and hold it to automatically scan to the next available station.

⑤   Radio function status display.

⑥   Tap to switch bands (FM/AM).

⑦   Auto scan the available radio station.

⑧   Auto browse the available radio station.

⑨   To turn on local function.

⑩   Tap it to set up sound effects.

⚠ CAUTION

If your radio is not RDS enabled, the RDS icon ② and the AF, TP, and TA ICONS ⑤ will not appear on your interface.

MUSIC

Function description
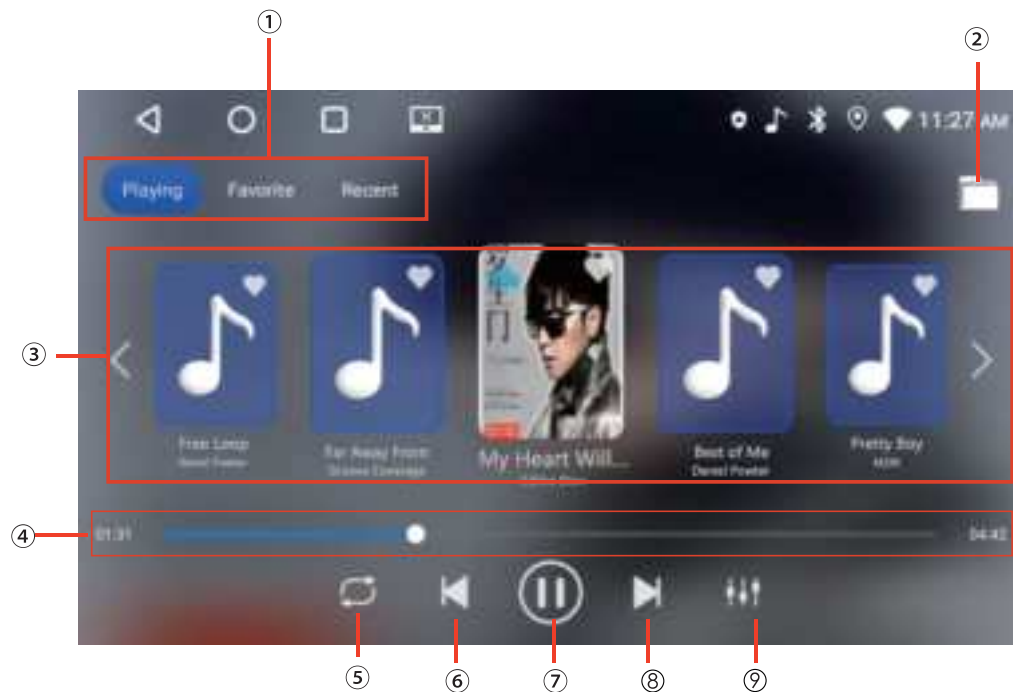
① Tap to select the playing/favorites/recent playlist.

② List music files in folders.

③ Playing/Favorites/Recent playlist.

④ Tap to play forward or backward.

⑤ Tap to active shuffle/repeating.

⑥ Tap to play last.

⑦ Tap to play or pause.

⑧ Tap to play next.

⑨ Tap it to go to the sound effect setup.

Lyrics

Tap to the album cover of the song to view the lyrics.

EQ

Preset EQ : Custom / Normal / Pop / Rock Classic /J azz.
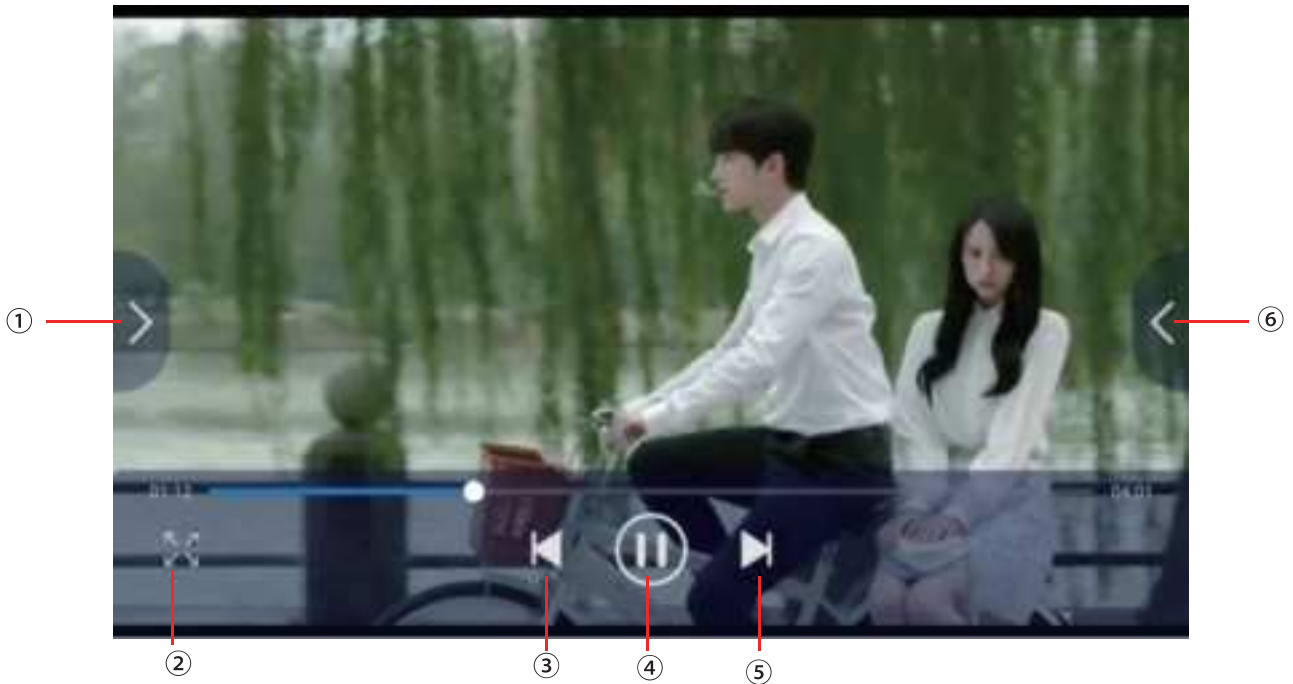
VIDEO

① List video files in folders.

② Fullscreen.

③ Tap to play last.

④ Tap to play or pause.

⑤ Tap to play next.

⑥ Tap to access the playlist.

⚠ CAUTION
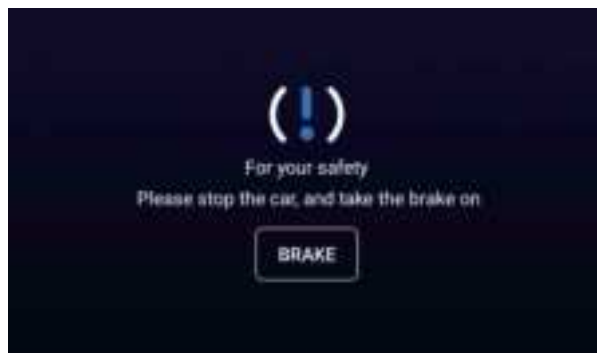
For safety reasons, video images cannot be viewed while your vehicle is in motion.

To view video images, stop in a safe place and apply the parking brake.

AUX
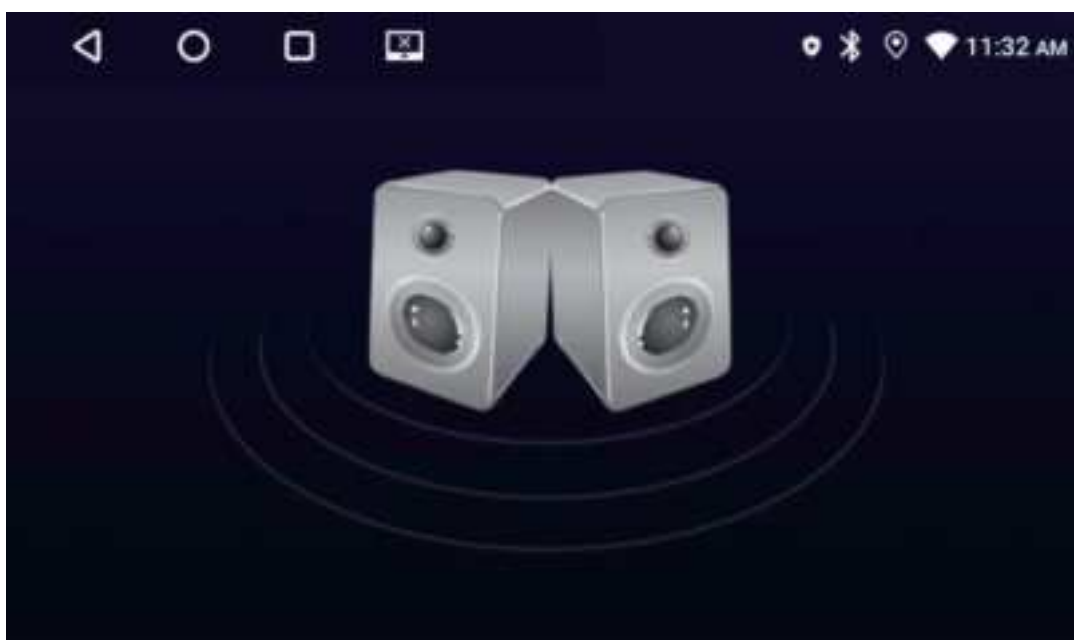
You can play the audio from external portable audio player connected to this unit.

AV-IN

You can display the video image output by the device connected to this unit.

⚠ CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion.

To view video images, stop in a safe place and apply the parking brake.

BLUETOOTH PHONE

First-time Bluetooth connection steps

Step 1: Enter (Settings) - (Bluetooth),then tap (ON) to turn on the Bluetooth switch.

Step 2: Turn on Bluetooth on your mobile phone to allow the car system to detect your mobile device. Click on the name of your mobile device to start the connection.

Bluetooth Pairing Request

"X-QD1120" would like to pair with your iPhone. Confirm that this code is shown on "X-QD1120". Do not enter this code on any accessory.

263743

Cancel   Pair

Step 3: On the mobile phone, tap to (PAIR) to confirm the pairing.

Step 4: After successful pairing, connect the Bluetooth.

Dial pad

Enter the phone number using the ①
dial pad.Tap ② to erase a wrong number.
Tap and hold it to erase the entire number.
After entering phone number, tap. ③

⚠ ATTENTION

For your safety, it is prohibited to make phone calls while driving

BLUETOOTH MUSIC
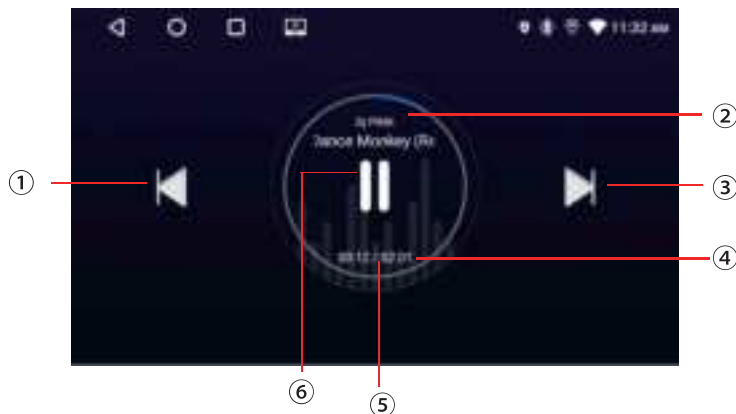
① Tap to play last.

② Song/Album/Singer.

③ Tap to play next.

④ Play progress bar

⑤ Tap to play forward or backward

⑥ Tap to play or pause.

FILE EXPLORER
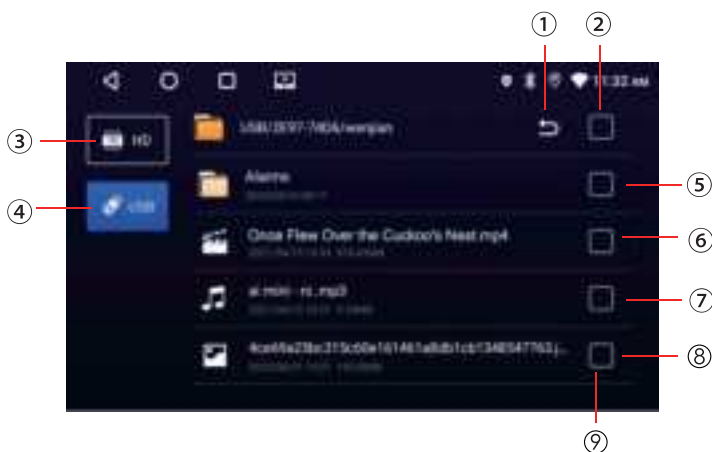
① Back
② Select All/Deselect All
③ HD device file
④ USB device file
⑤ Folder
⑥ Video file
⑦ Music file
⑧ Photo file
⑨ Select /Deselect

SWC
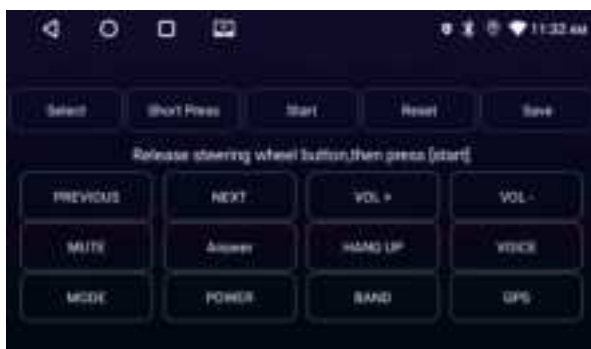
a. Connect SWC1/SWC2/GND wires of the unit to your vehicle SWC wires.
b. Tap to "Reset" and then Tap to "Start".
c. Select the key you want to set up.

d. Press and hold the corresponding key that needs to be set on the steering wheel. It's setup successfully when a green tick appears.
e. Repeat 3~4 times to complete the settings of all keys.
f. Tap to "Save".

THIRD PARTY APPLICATIONS

YouTube

YouTube is one of the most popular video platforms globally, where users can freely upload, watch, and share various types of video content.

Google Chorme

Chrome browser is a free web browser developed by Google. It is known for its fast, lightweight, and secure characteristics, and is widely used for internet browsing, searching for information, watching videos, accessing web applications, and more.

Google Play
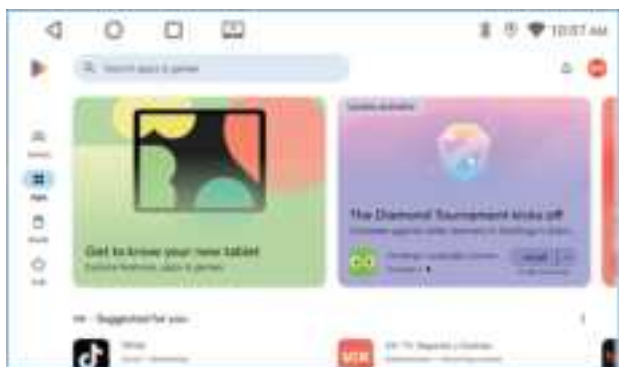
Google Play is one of the most commonly used app stores on Android devices, providing users with a wide variety of digital entertainment and utility applications.

Netflix

Netflix offers a service for streaming movies, TV shows, and other types of programs online. Netflix has a vast library of films, encompassing various genres, TV series, documentaries, and some exclusive original content.

PHONE CONNECT

Apple CarPlay (Wireless Connection)

When connected to CarPlay in a driving vehicle, you can intelligently and safely use various iPhone functions, including navigation, making calls, sending and receiving messages, playing music, and viewing the calendar, among others.

1. The car's infotainment system enters the CarPlay connection interface.
2. The mobile device connects to the car's Bluetooth.
3. On the mobile device, select "Use CarPlay" in the pop-up window to start using wireless CarPlay functionality.

Android Auto (Wireless Connection)

Android Auto is an application framework developed by Google that allows users to wirelessly connect their Android smart phones to the vehicle's entertainment system. It presents the applications, music, navigation, communication, and other features from the phone on the vehicle's touch screen.
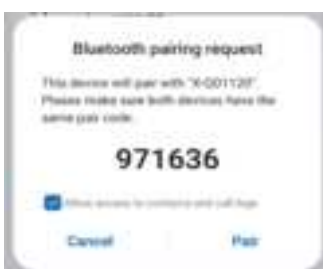

1. The car's infotainment system enters the Android Auto connection interface.

2. The mobile device connects to the car's Bluetooth.

3. On the mobile device, tap to (PAIR) in the pop-up window to start using wireless Android Auto functionality.

PHONE CONNECT

Screen Cast

Mobile connectivity is a technologyand product that connects mobile devices with vehicle displays to achieve a more convenient and enriching operating anduser experience
Wireless screen projection function: link via mobile phone hotspot

1. Click the question mark in the upper right corner to pop up the screen projection QR code
2. Scan the QR code to download the Internet application (Android phone)
3. After opening this Internet application, follow the instructions to connect

SPLIT SCREEN DISPLAY
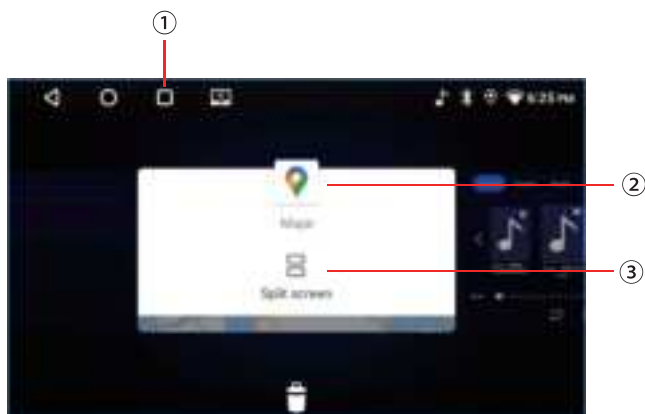
You can display two applications on one screen at the same time.
Tap ① to enter the task menu interface, tap ② to display the split screen button, and finally tap ③ to open the split screen display.
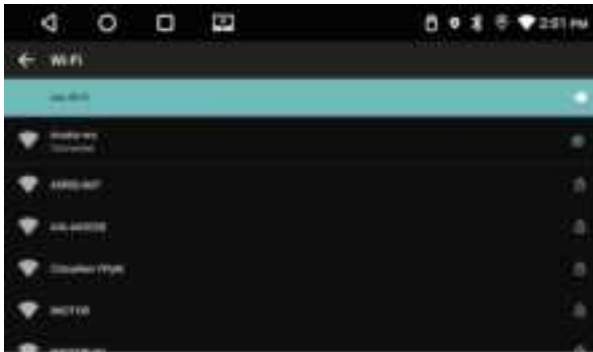

⚠️ ATTENTION

Support split screen applications: Radio, Music, Navigation, Bluetooth,music,Setting.Unsupported applications cannot enable split screen display.

SETTING

WLAN

WLAN

Turn on the WLAN switch, start scanning for nearby WLAN networks, and list the available networks.

Wi-Fi hotspot

Turn on the Wi-Fi hotspot switch, nearby devices can connect to the system via WiFi, enabling shared network access and interconnectivity.

Bluetooth

Turn on the Bluetooth switch and start s canning for nearby Bluetooth devices. If there are matched Bluetooth devices nearby and the "Auto connect" option is enabled, the system will automatically connect to those devices.
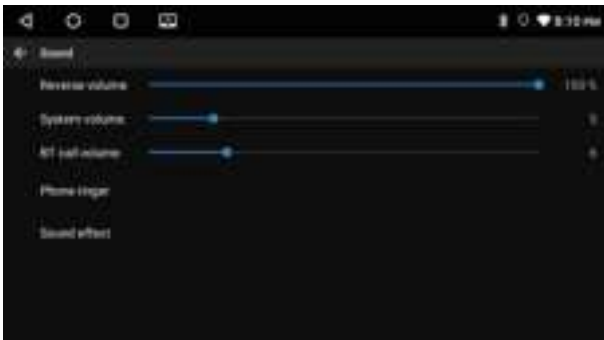
If it is the first time pairing, a Bluetooth connection request pop-up will appear on the mobile device. Tap to "Pair" to establish the connection.

Tap to the "Device Name" and a pop-up keyboard will appear， allowing you to rename the device.
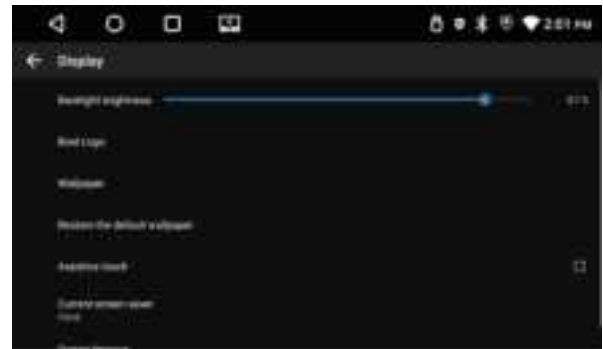
SETTING

Sound

You can to set the： Media volume ratio、System volume、BT HFP、Phone ringer , etc.You can set your favorite phone ringer andkeypad tone.

Display

You can to set the： Backlight brightness、Boot Logo、Wallpaper、Assistive touch , etc.You can set your favorite picture as wallpaper.

Vehicle setting
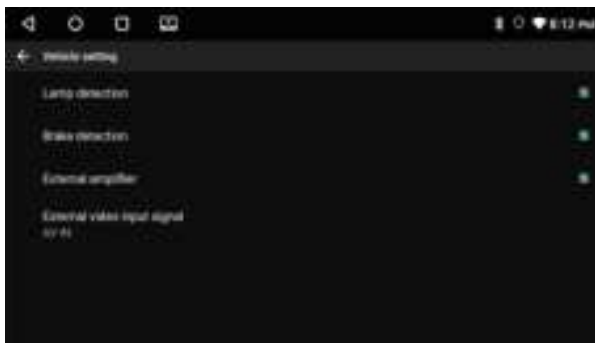
After enabling the lamp detection, when the vehicle's lamp are detected to be turned on, the touchscreen buttons increase the brightness.Upon enabling the brake detection, when the vehicle's brake is detected to be disengaged, the system prohibits video playback.

Navigation
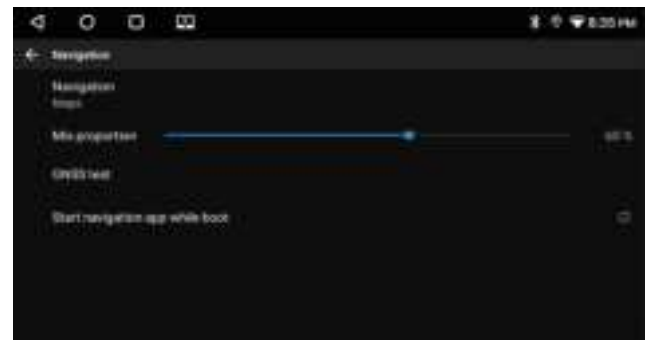
You can to set the： Mix proportion、Gps test、Start navigation app while boot ,etc.

Languages and input

You can to set the： Languages and Keyboards.You can add a language and arrange preferred language order by dragging them.The default keyboard is Android Keyboard (AOSP). You can manage the installed keyboards.

Date and time

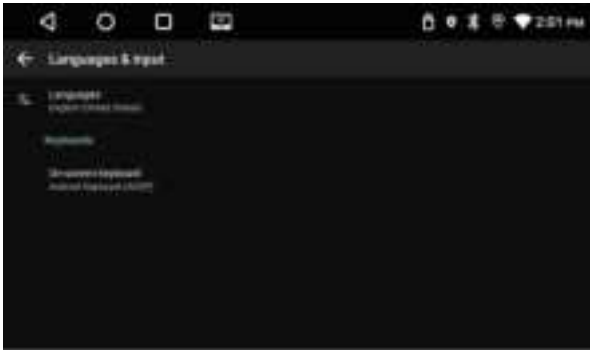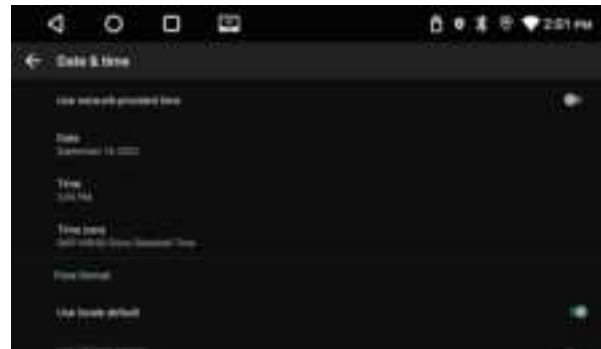You can to set the： Date、Time、Time z one、Time format,etc.You can select to set date, time and time zone using this sub-menu.Use Automatic unless you need to override the network values.Use 24-hour format: Select to set 24-hour formats on or off.

Accounts
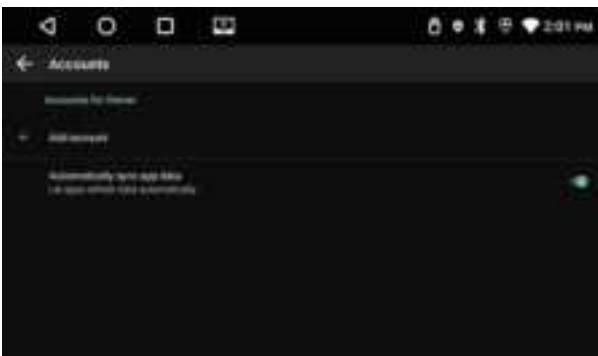
You can tap to "Add Account" to sign in to your Google account.
You can enable automatic sync app data, which will sync the related app data logged in with your Google account to the cloud.

System
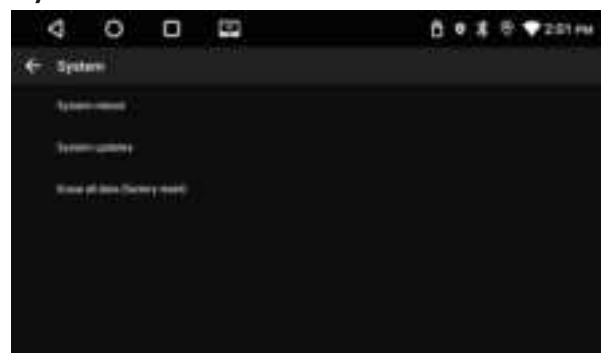
You can tap to "System Restart" to perform a system shutdown and restart.
You can tap to "System Upgrade" to check for upgrade packages and proceed with the upgrade if any are found.
Note: This item requires a password, password: 888888

SETTING

Factory reset: Erases all data from the internal storage of the device, including Google accounts, system and app data and settings, and other user data.

System
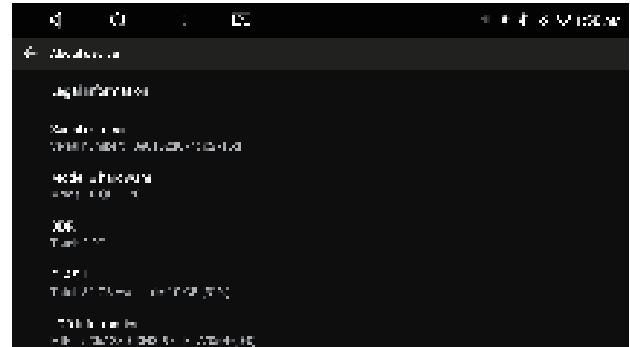
Display the device information，such as：Serial number、Model & hardware、DDR、FLASH、LCD Information，etc.

REARVIEW CAMERA

After the vehicle is put into R gear, the system interface displays a reverse camera screen. The trajectory line is divided into three sections: 0.5m, 2m, and 3m, with colors of red, yellow, and green respectively.

⚠ ATTENTION

Support split screen applications: Radio, Music, Navigation, Bluetooth music，Setting. Unsupported applications cannot enable split screen display.

SPECIFICATION

General

Operation Voltage: 14.4V(10.5-16V)

Installation Size: Thickness: 42mm

Operating Temperature: -10C- +60℃

Storage Temperature: -20°C - +70°℃

Net Weight: 9".748g / 10",851g

System

Operating system: OY12.0

DDR:2GB

Flash : 32GB (Optional: 64GB)

Radio

FM Frequency Range: 87.5-108.0MHZ

MW Frequency Range: 522-1620KHZ

◇T series: Radio: Without AM

Bluetooth

Communication System: BT4.2+EDR

Output: BT Standard Power 2 Class

Max Communication Range: 5m

Frequency Band: 2.4GHz

USB Interface

USB: Readable/ Chargeable

(5±0.25V/1A)

Audio

Max Power: 4X50W

Front Output(V): 1V/10KΩ

Pre-output impedance: ≤600Ω

Speakers impedance: 4-8Ω

TFT Screen Item

Size: 9.0"/ 10.1"

Display Resolution: 1280x720

Contrast ratio: 500

Brightness:500nit

Video

External Video Input System:
NTSC/PAL/SECAM

External Video Input: 1VP-P/75Ω

Video Format

H264/MP4/ AVI/ MKV/ FLV

Audio Format

MP3/APE/AAC/FLAC

NOTE

Specification and design; functions and features; unit illumination; colour anddisplay segment are subject to change without prior notice.Photos and drawings on gift box or operation manual might be varied from the exact unit.Depends on the input devices operation might be varied from the operationmanual described.

COMMON TROUBLESHOOTING GUIDELINES

Problem	Cause	Correct action
Can not power on	Check fuse	Change fuse same as the old one Maximum current of fuse: 15A
	Some factors cause MPU wrong operation	Press RESET button on the panel by penpoint, then, power on
After ignition swith off, setting information all lose	Change battery or fuse	Reset information and save
Poor performance of radio station	Weak signal	Move the car to another location, then research

PRECAUTIONS ON POWER SUPPLY AND SPEAKER CONNECTIONS:

Do not connect the speaker cables of the power cord to the car battery; otherwise, the unit will be seriously damaged.

BEFORE connecting the speaker cables of the power cord to the speakers, check the speaker wiring in your car.
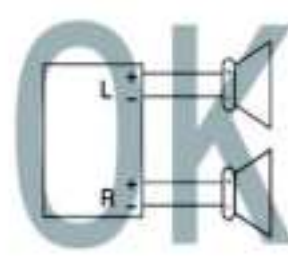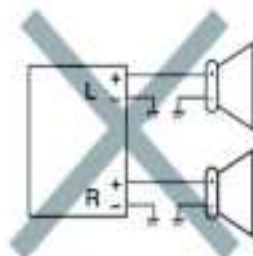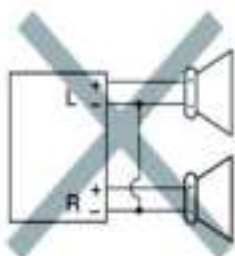
FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. This equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

-- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions.(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body