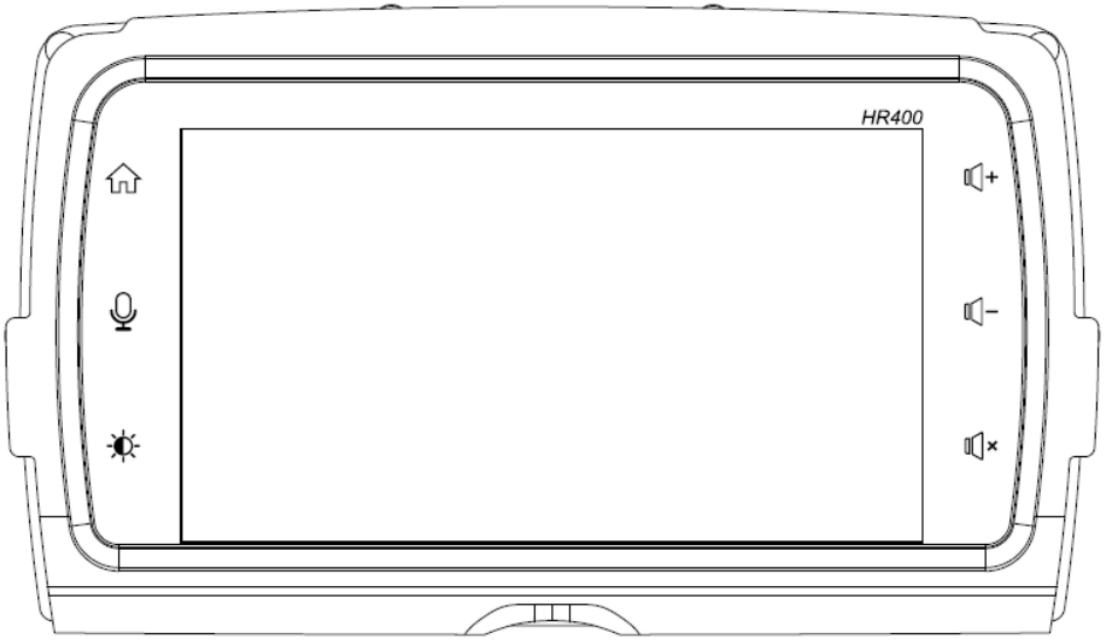
USER MANUAL

HR400



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SAFETY INFORMATION

Use This Product Safely

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit protect you if you observe the following procedures for installation, use and servicing. This unit doesn't contain any parts that can be repaired by the user.

When Driving

Keep the volume level low enough to be aware of road and traffic conditions.

When Car Washing

Do not expose the product to water or excessive moisture. This could cause electrical shorts, fire or other damage.

When Parked

Parking in direct sunlight can produce very high temperatures inside your vehicle. Give the interior a chance to cool down before starting playback.

Use the Proper Power Supply

This product is designed to operate with a 12Volt DC

Use Authorized Service Centers

Do not attempt to disassemble or adjust this precision product. Please refer to the Service Center list included with this product for service assistance.

For Installation

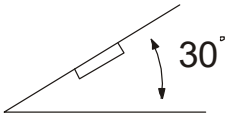
The unit should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30^0.

Notes:

- Choose the mounting location where the unit will not interfere with the normal driving function of the driver.
- Before finally installing the unit, connect the wiring temporarily and make

sure it is all connected up properly and the unit and the system work properly.

- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- Install the unit where it does not get in the driver's way and cannot injure the passenger if there is an emergency stop.
- If installation angel exceeds 30°from horizontal, the unit might not give its optimum performance.



- Avoid installing the unit where it would be subject to high temperature, such as from direct sunlight, or from hot air, from the heater, or where it would be subject to dust, dirt or excessive vibration.

Installation Method

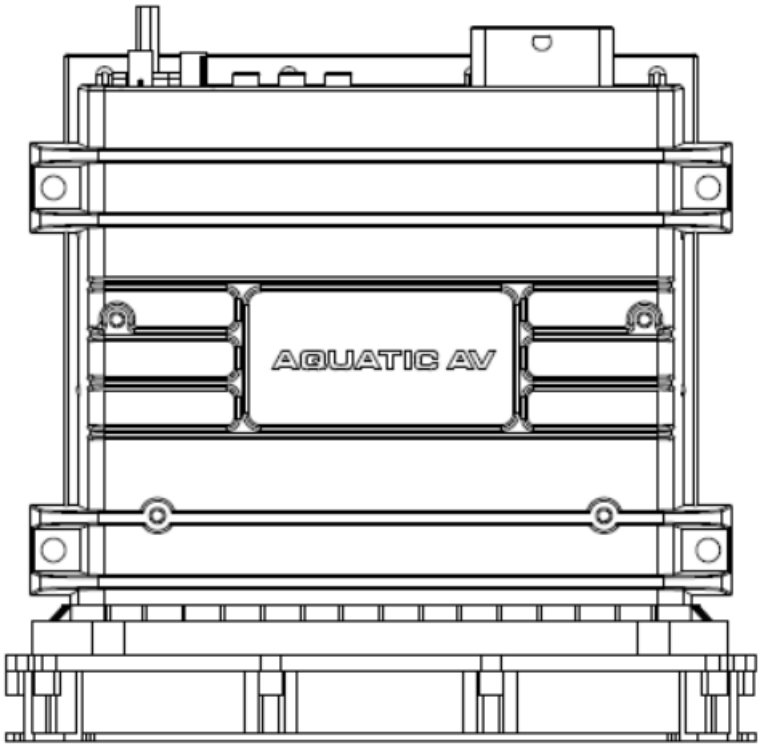
1.Take out the outer trim frame, insert the keys supplied on both sides to remove the mounting sleeve.

2.Bend the TABS outward, if necessary. (two places above and below are appropriate)Then insert the mounting sleeve into the dashboard.

3.Insert the unit into the mounting sleeve,and then insert outer trim frame to the unit.

4.Install the nozzle part into the unit on the dashboard.

INSTALLATION



ATTENTIONS OF INSTALLATION

1.This player should be installed by professional technician.

2. please read the instruction and operation of equipment carefully before installing.

3. Make sure to connect other wires before power connection.

4. To avoid short circuit. Please make sure all the exposed wire are insulating.

INSTALLATION

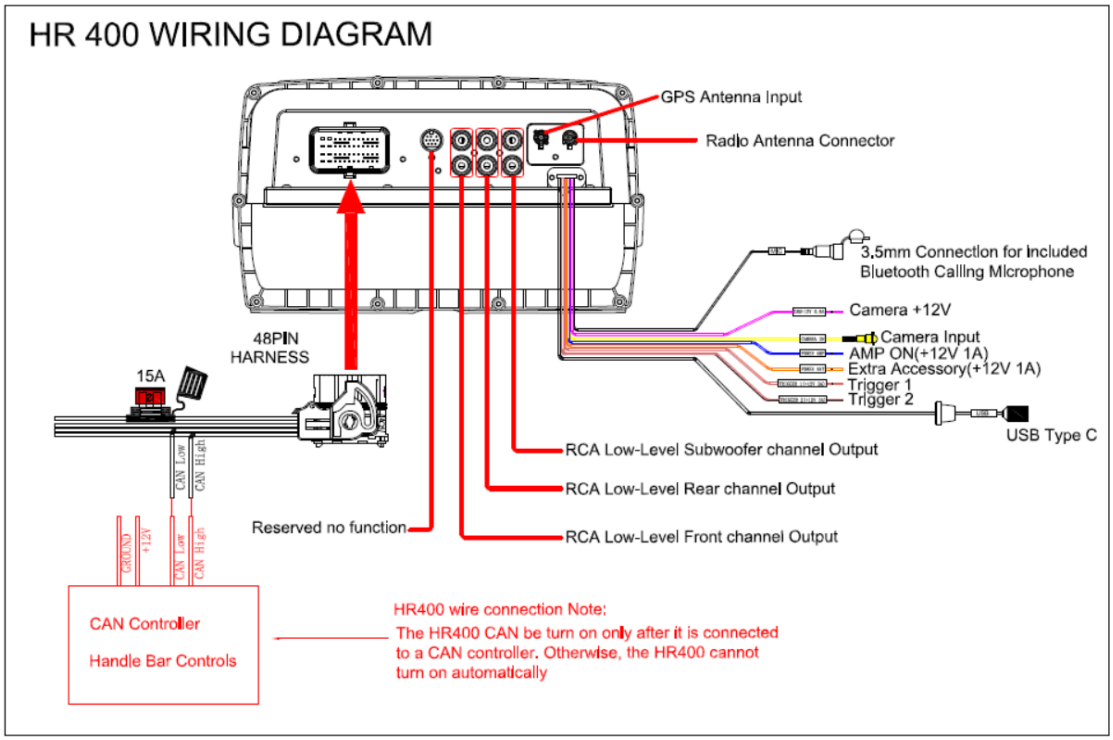
5. Please fix all the wires after installation.

6. Please make connection to the player accordingly to this instruction manual. Wrong connection may cause damage.

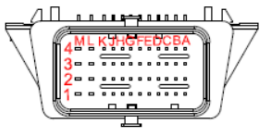
7. This player only fit for 12V DC device and please make sure your car belongs to this kind of cathode grounding electrical system.

8. Please connect the wires rightly. Wrong connection will cause malfunction or damage the electrical system.

WIRING CONNECTON



MOLEX 48PIN
P/N 500762-0481



MOLEX 48PIN CONNECTOR-PCB MOUNTED

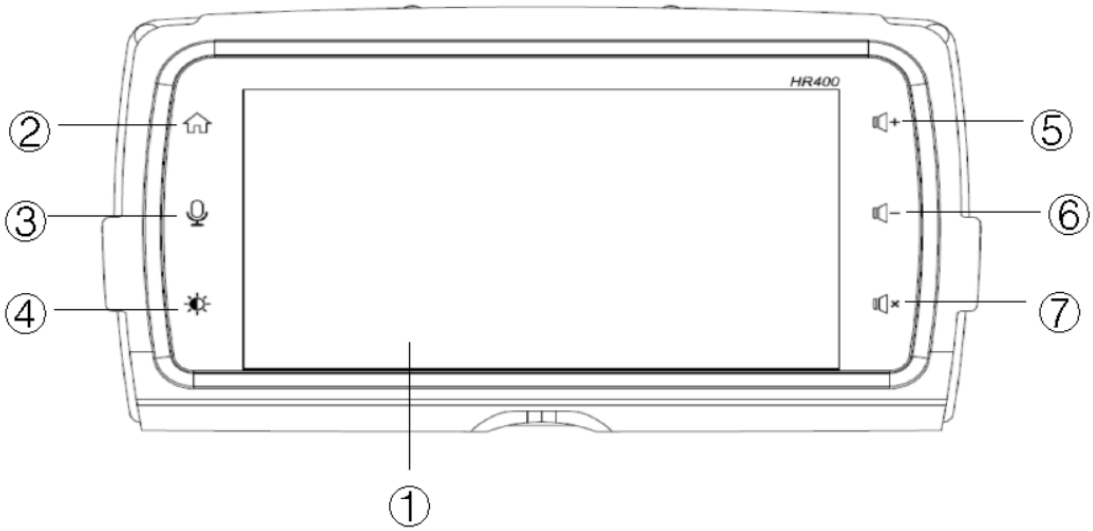
Position	Color	Discription
A1	White/Red	CAN High
A2	White/Black	CAN Low
A3		Open
A4		Open
B1	Black	CAN Ground
B2		Open
B3		Open
B4		Open
C1		Open
C2		Open
C3		Open
C4		Open
D1		Open
D2		Open
D3		Open
D4		Open
E1		Open
E2		Open
E3		Open
E4		Open
F1		Open
F2		Open
F3		Open
F4		Open

Position	Color	Discription
G1		Open
G2		Open
G3		Open
G4		Open
H1	Green/White	LEFT REAR SPEAKER(-)
H2		Open
H3		Open
H4		Open
J1	Green	LEFT REAR SPEAKER(+)
J2		Open
J3		Open
J4		Open
K1	Purple	RIGHT REAR SPEAKER(+)
K2	Purple/Black	RIGHT REAR SPEAKER(-)
K3		Open
K4		Open
L1	White/Black	LEFT FRONT SPEAKER(-)
L2	White	LEFT FRONT SPEAKER(+)
L3	Black	GROUND
L4	Black	GROUND
M1	Gray	RIGHT FRONT SPEAKER(+)
M2	Gray/Black	RIGHT FRONT SPEAKER(-)
M3	Yellow	BATTERY(+)
M4	Yellow	BATTERY(+)

Attention:

1. Please make sure "Battery +"and "ground" pin location are correct before making connection
2. The CAN High and CAN Low wires must be properly connected to the CAN Controller, otherwise the machine cannot be turn on
3. This player can only be used by the 12V DC cathode grounding electrical system.
4. Don't connect the terminals of the car battery until the player is absolutely with well erection joint.
5. Please make sure to connect the yellow wire to the positive of the battery (+).
6. When change the fuse. Please make sure the specifications are same.

THE PLAYER

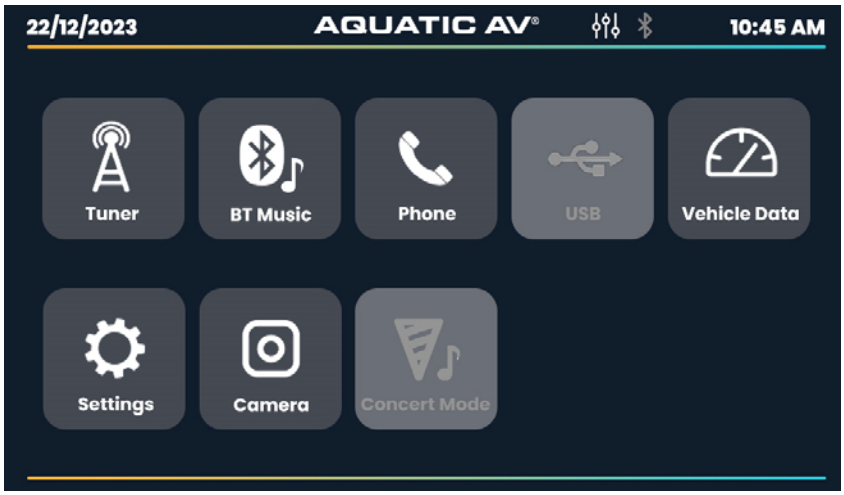


1. Touch screen user interface
2. Main menu button
3. Voice button.
4. Dimmer button.
5. Volume up button.
6. Volume down button.
7. Mute button.

Main screen

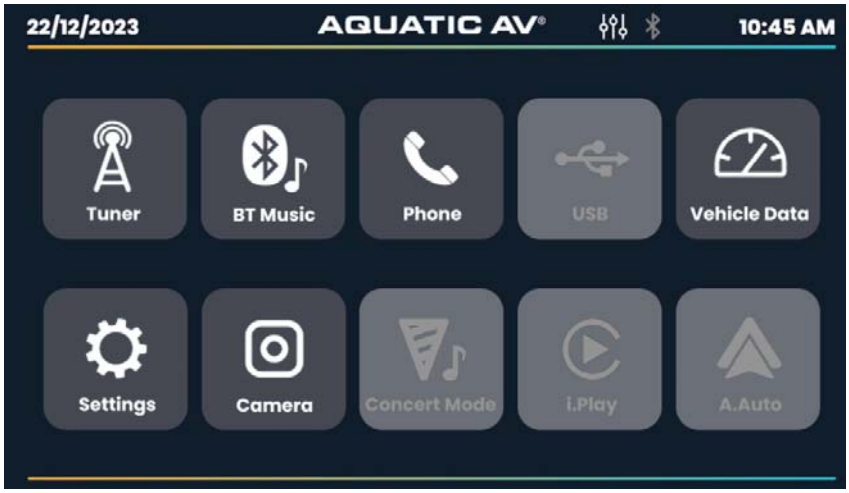
The initial default home screen

CarPlay and Android Auto are disabled



Full feature home screen

The CarPlay and Android Auto functions are set on, the user can set the Advance Settings in the Settings menu



Touch [ ] to show equalizer setting screen, where users can adjust the EQ Settings

Touch [ ] to show device list, The user can see a list of connected or previously connected device name and can choose to disconnect or reconnect the device. You can delete the device

Main Screen

Radio: Listen to FM or AM radio program

BT Music: Play audio streaming through Bluetooth

Phone: Make a hands-free phone call

USB: Play music/video/image in USB device, note to users: When no USB flash drive is inserted, the USB icon is gray. When a USB flash drive is inserted, the USB icon is lit up when the USB flash drive is detected

Vehicle Data: Monitor Vehicle speed

Settings: Set the parameters of the product

Camera: View camera video signal

Concert Mode: Users can listen to music from the host machine and perform concerts, When Audio Rally is set to Primary, the Concert Mode icon is gray, which disables this function. When Audio Rally is set to Secondary, the Concert Mode icon is lit up. You can use this feature by going to the Settings menu Audio menu to set up Audio Rally

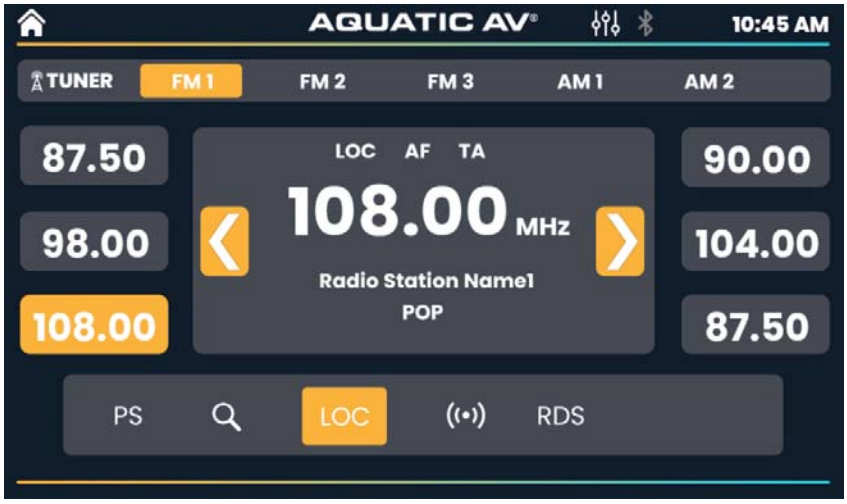
i.Play: Connect to iPhone. When CarPLay is not connected, the icon is gray, and when CarPlay is connected, the icon is lit

A.Auto: Connect to Android phone. When Android Auto is not connected, the icon is gray. When Android Auto is connected, the icon is lit

OPERATION

Radio mode

In the main menu, press the [Radio] icon. The radio page menu is displayed.



Select FM / AM band

Up to 30 stations can be stored under the FM band and AM band.

☛ Touch FM1, FM2, FM3, AM1, and AM2 to select the FM or AM band you want to listen to

Tuning into a station

Tuning into stations manually

☛ Long press the [ ] or [ ] to search previous or next by step.

Station seek tuning

Touch the [ ] or [ ] to search for the previous or next available radio station. If the station is searched, the process will stop and play the station searched.

Storing stations manually

☛ Touch FM1, FM2, FM3, AM1, and AM2 to select the FM or AM band you want to listen to

☛ Received the desired station.

☛ Press one of the preset[1]-[6] button for approx. 2 seconds to store the current station at the button. The station is stored.

Automatic Search and Storage Station

Long press [ ] to automatic search and save station; When search is completed, the first radio station searched will be automatically played and the stations will stored in the preset [1] ~FM3(or AM1/AM2).

OPERATION

Scanning stations

☛ Touch the [PS] to listen the preset stations [1] to [6] FM1~FM3(or AM1/AM2) for few seconds.

Adjusting the seek tuning sensitivity

The seek tuning sensitivity decides whether the automatic station seek tuning finds only strong stations or also weaker stations that may be noisy.

☛ Touch [LOC] to adjust the sensitivity of station seek tuning.

If **LOC** is displayed, only stations with a strong signal are found during seek tuning.

If **DX** is displayed, stations with a strong and weak signal are found during seek tuning.

Stereo/Mono switching

Change FM stereo to monochrome. It can reduce the noise when the signal is weak.

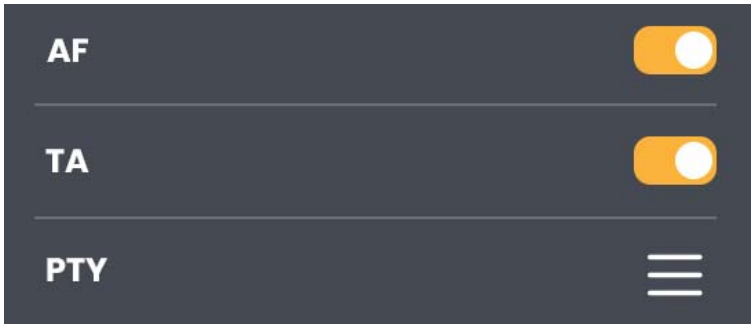
☛ Touch [((•))] to switch Stereo/Mono.

☛ In Stereo mode, The ST is displayed in white.

☛ In Mono mode, The ST is not displayed.

RDS function

Many FM stations broadcast an RDS (Radio Data System) signal in addition to their programme in the Europe reception area that allows additional functions, such as the display of the station name.



Switching AF(Alternate frequencies) function on/off

If the AF function is activated, the car audio system automatically tunes into the best receivable frequency for the station that is currently set.

Switching the TA (Travel Announcement) function on/off

If the TA function is activated, the car audio system automatically receive travel announcement.

Selecting the program type and starting seek tuning

You can select a program type with the PTY function to search for stations of a particular genre for PTY List.

OPERATION

USB media player

Insert USB Flash Drive with media files.

Supporting Format

Music: MP3, WMA, FLAC, WAV.

Video: MP4, WMV, MKV, AVI, MPEG.

Picture: JPG, PNG, BMP.

Connecting a USB data carrier

- Insert the data carrier to the USB socket.
- The device automatically switches to USB mode. The data is read, and playback starts with the first media file recognized by the device.

Play Music

Touch [ ], Display the folder/file list.

Touch [►I] to play the next track.

Touch [I◄] to play the previous track.

Touch [II] or [►] to pause current playing track or replay the paused track.

[ ] Repeat All files.

[ ] Repeat the same files.

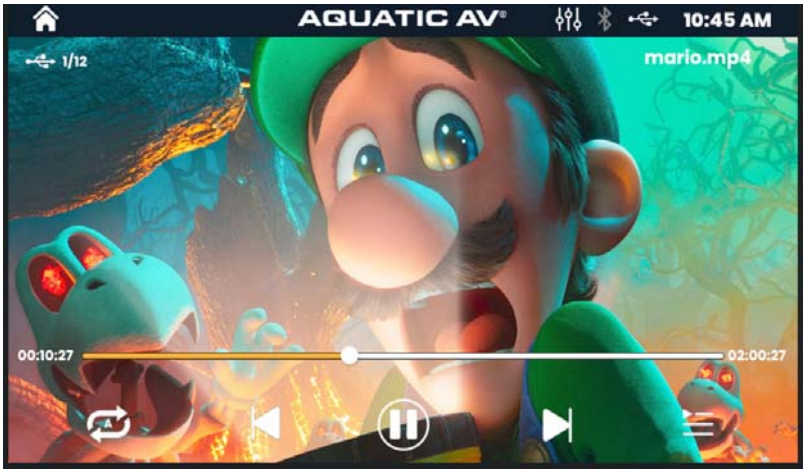
[ ] Repeat all files of current folder.

[all] Playback in random.

Drag the [ ] for fixed-point playback.

OPERATION

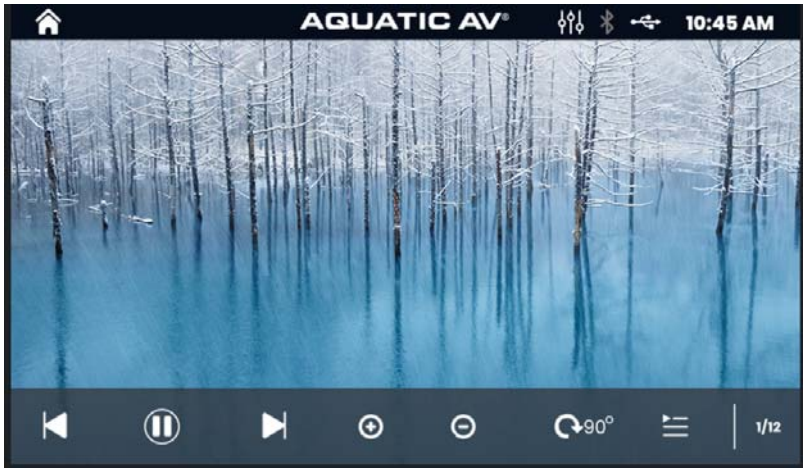
Video playback from USB



Touch [ ] ,select [VIDEO] to show the video list then select the video track to play.

Touch the screen to enter full screen mode. If current state is full screen mode, touch the screen again to exit full screen mode.

Image playback from USB



Touch [ ] ,select [PICTURE] to show the picture list then select the picture to play.

Touch [90°] to rotate current playing pictures.

Touch [ ] or [ ] to zoom in or zoom out current playing pictures. When the image is enlarged, it can be moved up, down, left and right

Touch the screen to enter full screen mode. If current state is full screen mode, touch the screen again to exit full screen mode.

OPERATION

Bluetooth mode

The Bluetooth connection is not available when Apple CarPlay is on.
The Bluetooth® function allows pairing cell phones & BT equipped media playback devices with the car audio system.

Once you pair a cell phone with the car audio system, you can make phone calls with the built-in handsfree function. You can access the list of dialed numbers and the phone book of the registered cell phone after selecting "Sync" option.

If the connected Bluetooth® device supports the functions like A2DP and AVRCP, you can play music via the car audio system and control playback. During a call, music playback is interrupted and resumes again after the call.

If a cell phone is paired via Bluetooth® and a call is received during playback, the source playback is interrupted and the call menu is displayed.

Bluetooth pairing

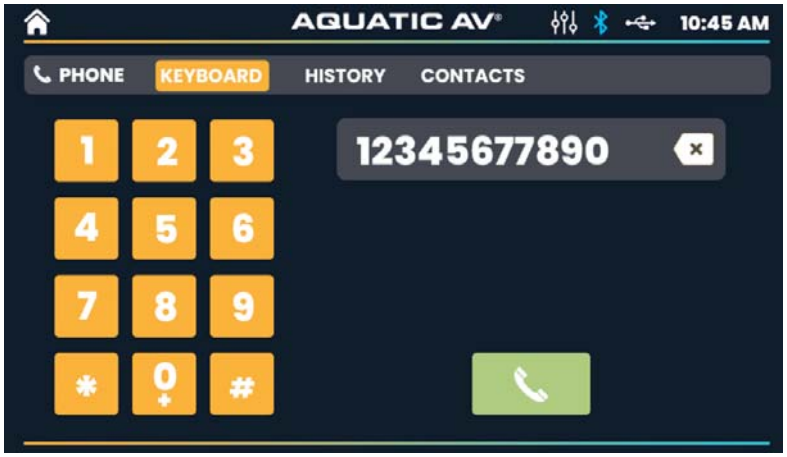
Select the Bluetooth item and search the Bluetooth device on your phone.
Select "HR400" and confirm that this code is shown on "HR400". Do not enter this code on any accessory. The BT blue icon will be displayed when successful paired.

Connection status

If a mobile phone/device is connected with the car audio system, the blue Bluetooth® icon is displayed at the top right corner of the display in all audio/video sources.

Bluetooth PHONE mode

Select In the main menu, press [Phone], the following menu appears.

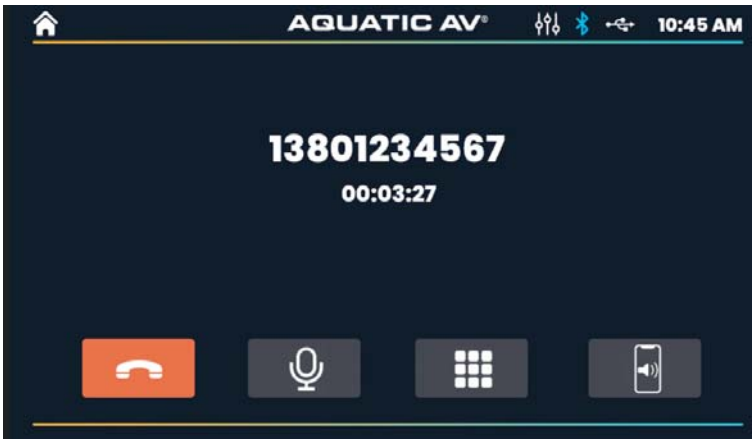


1. Touch [KEYBOARD] to select the digital numbers on the dial keyboard, touch the [ ] to make a phone call.

2.Touch [HISTORY] to enter history record list then choose a record number for calling.

3.Touch [CONTACTS] to enter contacts list then select a name from the phone book to call.

Hands-free Mode and Private Mode



During a call, touch [ ] to switch between Hands-free mode and private mode; Touch [ ] to mute microphone so that the receiver hear from your side; Touch [ ] to select the digital numbers on the dial keyboard.

[ ] Answer/dial out a call.

[ ] Reject/cancel a call.

Bluetooth playback mode

Select In the main menu, press [BT Music], the following menu appears.

[ ] Select repeat one/repeat all/repeat off.

[►I] to switch next track.

[I◄] to switch previous track.

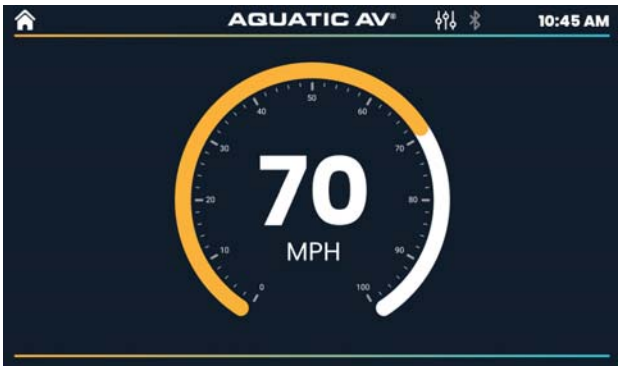
Touch [II] to pause playback, touch [►] to play.

Camera Input

This device features a video input at the rear of the device for connecting a view camera that is available as an option (sold separately). If a view camera is connected, the image is displayed on the screen, when select camera as the source.

Vehicle Data

In the main menu, press the [Vehicle Data] icon. The Vehicle Data page menu is displayed.



Concert Mode Music Sharing

In the main menu, press the [Concert Mode] icon. The Concert Mode page menu is displayed.

When Audio Rally is set to Primary, the Concert Mode icon is gray, which disables this function. When Audio Rally is set to Secondary, the user can select the Concert Mode function, you can go to the AUDIO Settings GENERAL screen to set. Concert Mode Music Shoring allows you to broadcast your playlists to group riders, you can pair with riders who have audio rally to set primary HR400 unit, an unlimited number users can pair with a principal broadcaster's stream.

OPERATION

Apple CarPlay (Wired and Wireless)

Connection

1. Connect iPhone to product USB port via lightning cable, the product screen will automatically show the CarPlay interface. User can operate the common functions of iPhone on the product. iPhone support: minimum iPhone5; Required iOS: minimum iOS 7.1.

2. User can also go to Select Device list and then initiate wireless connection via Bluetooth pairing.

Call Out / Receive Call

Touch the phone button on the main interface of CarPlay for Calling.

Play Music

Touch the music button on the main interface of CarPlay to play all of contents from iTunes.

Use Map

Touch the navigation button on the main interface of CarPlay to show the maps.

Siri

1. Touch and hold Apple Home key on the iPhone device for using Siri voice assistant, such as making a call, playing music, opening the map and other voice commands;
2. Touch the voice key [ ] on the front panel;
3. When iPhone is connected, enable Siri by steering wheel (some cars);
4. Control with " Hey, Siri".

OPERATION

Android Auto (Wired and Wireless)

1. Connect Android Auto compatible phone to product USB port via standard USB cable. Drivers can enjoy music from their phone, show the way with Google map or other map App and make or receive a call. User need to enable Bluetooth on both phones and the product at the same time. Required Android OS:6.0.
   (Android Auto App must be installed on the phone before connecting)

2.User can also go to Select Device list and then initiate wireless connection via Bluetooth pairing.

Settings

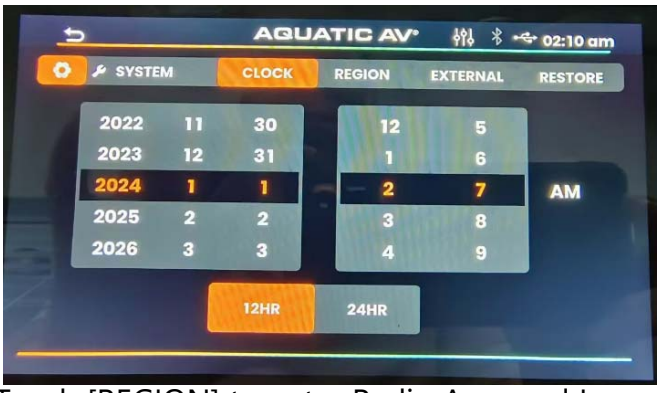
In the main menu, press the [Settings] icon. The settings page menu is displayed.

Users can select the System, Audio, Display, Bluetooth and Advance menu Settings, as well as select GPS Connection Statusform to view the number of satellites received by the GPS and select About to view information about the product

OPERATION

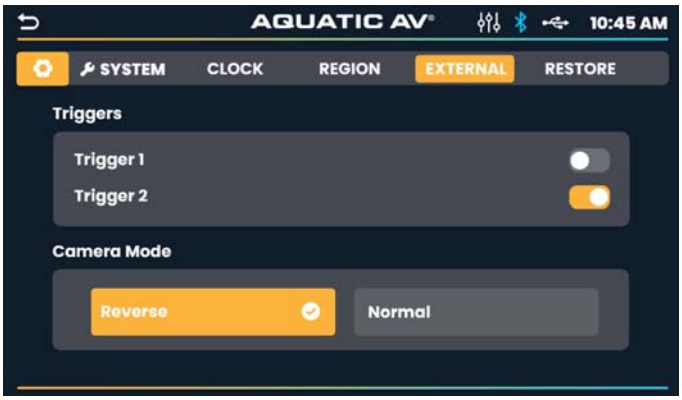
System Settings

Touch [CLOCK] to enter the time and date setting screen. You can adjust the time and date Settings, Use 24hour format or 12hour format.



Touch [REGION] to enter Radio Area and Language setting screen. You can set the radio area and language Settings

Touch [EXTERNAL] to enter Triggers and Camera Mode setting screen



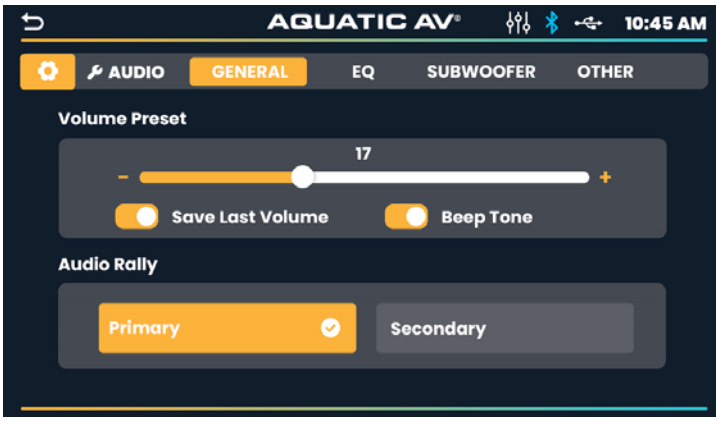
Trigger1 and Trigger2 set to on/off, and when they are set to on, Trigger1 and Trigger2 wire output +12V 3A
When the camera view is set to normal, the video is in normal view. When the camera view is set to reverse, the video is in reverse View.

Touch [RESTORE] to enter RESTORE setting screen, select Restore Factory Settings, all the memories will be lost!

OPERATION

Audio Settings

Touch [GENERAL] to enter general setting screen

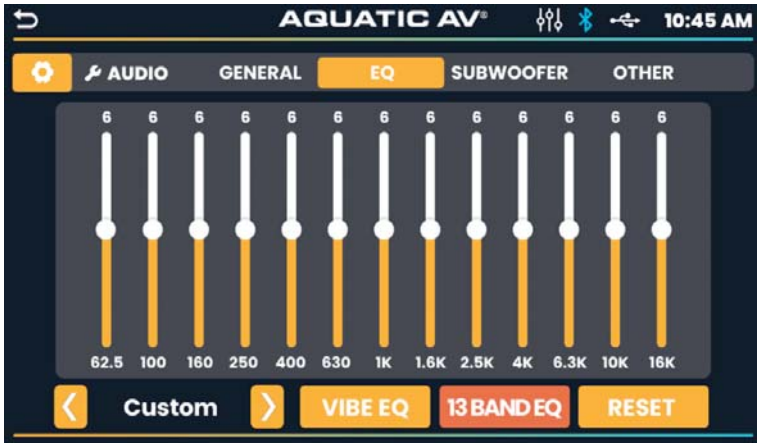


Volume Preset: When Save Last Volume is set to off, the volume is set by default each time the user turns on the Unit

Beep Tone: Beep Tone on/off

Audio Rally: When the Primary is set, the Concert Mode is disabled; otherwise, the Secondary is set to allow the Concert Mode function

EQ Settings



13 BAND EQ:

Select EQ Custom to set the levels of the available frequency bands according to your preferences.

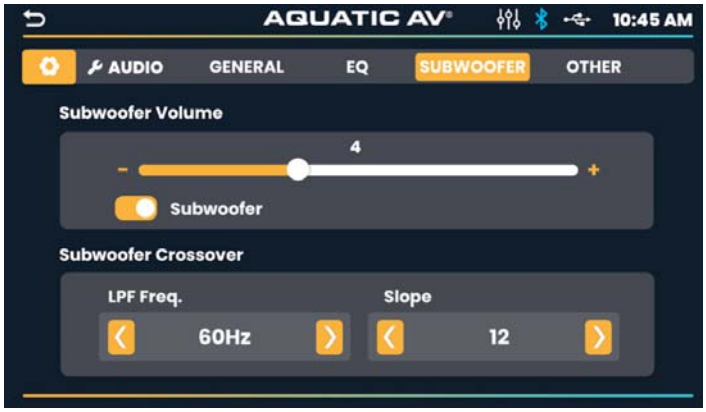
Touch [ ] or [ ] to select Custom, Standard, Classic, Rock, Jazz, Electric, Pop, Soft

VIBE EQ:

The user selects VIBE EQ to set the simple EQ, set the Treble, Mid and Bass

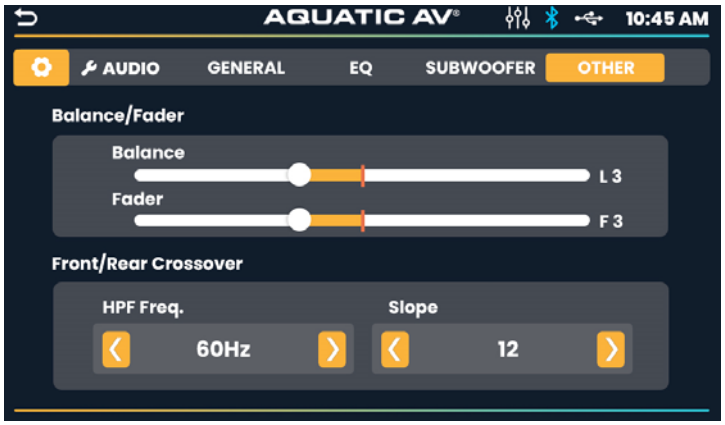
OPERATION

SUBWOOFER Settings



Subwoofer Volume:
Drag the [adjust subwoofer level 0 to +12.
Subwoofer on/off: When the Subwoofer is set to off, the output of the Subwoofer audio signal is disabled
Subwoofer Crossover:
Low Pass Filter adjustment, Touch and to select frequency 60Hz, 80Hz, 120Hz and OFF, if you select off, SUB out is set to all pass output.
Slope adjustment, Touch and to set a crossover slope 6dB, 12dB, 18dB and 24dB

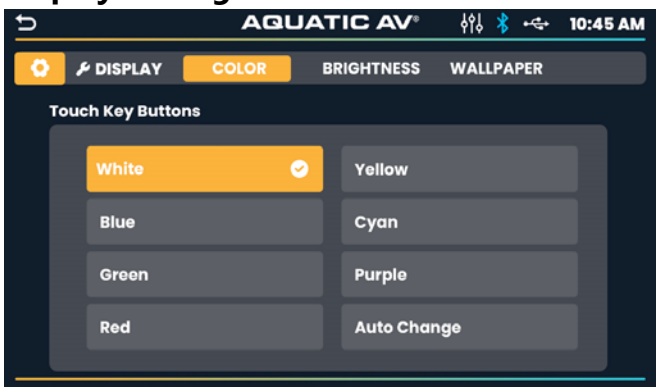
Other:



Adjust Balance/Fader, drag the [ ] to adjust balance or fader.
Front/Rear Crossover:
High Pass Filter adjustment, Touch and to select frequency 60Hz, 80Hz, 120Hz and OFF, if you select off, SUB out is set to all pass output.
Slope adjustment, Touch and to set a crossover slope 6dB, 12dB, 18dB and 24dB

OPERATION

Display Settings



Color:

Touch [COLOR] to enter backlit keys color settings interface, you can select your favorite color. When selecting Auto Change, backlit keys in automatic cycle display White/Red/Yellow/Blue/Green/Cyan/Purple, you can also choose a monochrome backlight.

Brightness settings:

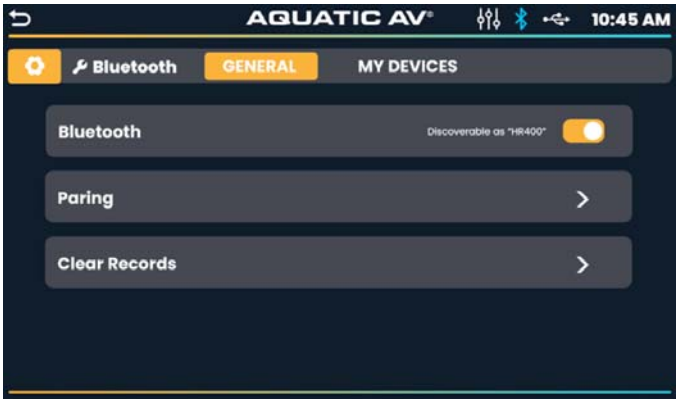
Drag the [ ] to adjust brightness,contrast or saturation.

Wallpaper settings:

Touch [Wallpaper] to enter wallpaper interface，you can select your favorite wallpaper in the background.

OPERATION

Bluetooth Settings

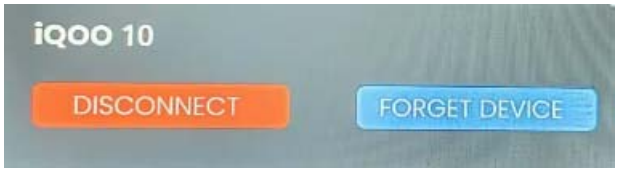


GENERAL Settings

1. Bluetooth: Open/Close Bluetooth connection.
2. Paring: Pairing mode from Bluetooth device connection.
3. Clear Records: The user can clear connected or paired devices

MY DEVICES:

Touch [MY DEVICES] to enter my devices interface, you can view the device connection status, The user can check the device connection status, touch the device to select the device to disconnect or connect the device, or choose to forget the device, for example, select iQOO 10 device, as shown in the following figure:



The user can choose to disconnect or connect the device or forget the device.

OPERATION

Advance Settings:

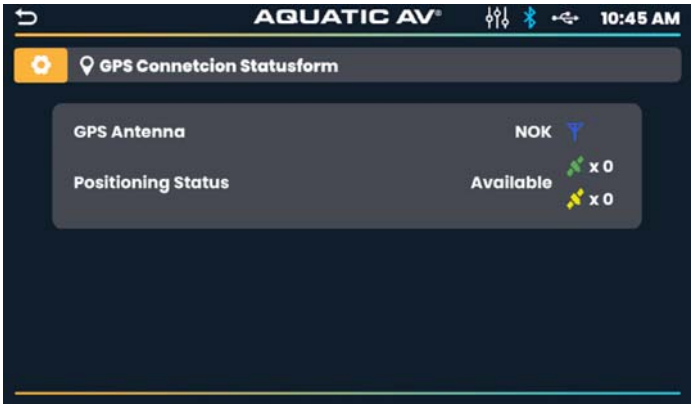
Touch [Advance] to enter password setting screen:

Enter the password 1012 to enter the Settings screen of CarPlay and Android Auto

To set CarPlay to ON, you need to enter the password 2306

To set Android Auto to ON, you need to enter the password 2810

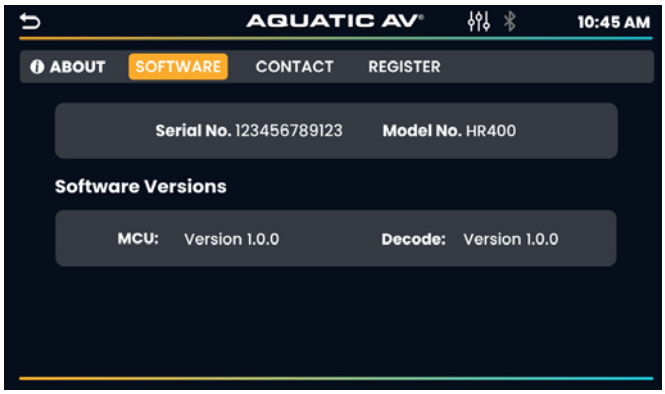
GPS Connection Statusform



Touch to select GPS Connection Statusform, View GPS position status. Users can view the number of GPS satellites received and the number of active satellites, GPS mainly assists wireless CarPlay and wireless Android Auto map navigation for accurate positioning

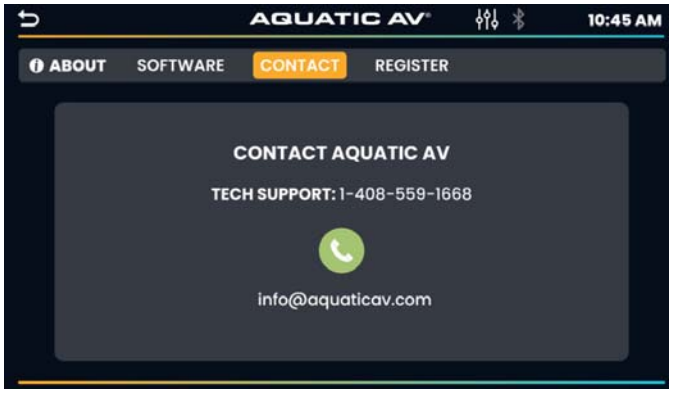
OPERATION

About:



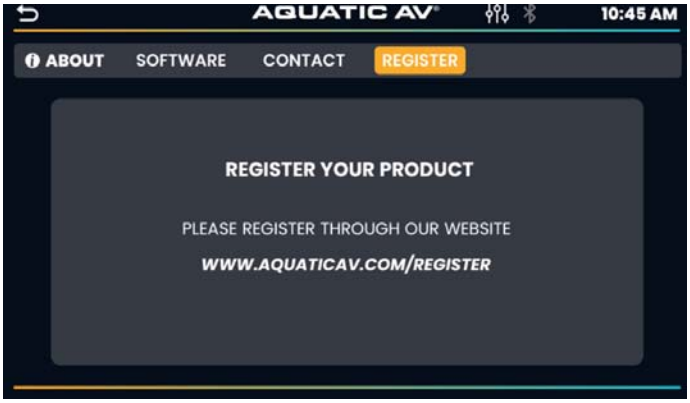
Touch [SOFTWARE] to enter software interface, Users can view the software version, product information model and serial number

Contact:



Users can contact AQUATIC AV if they encounter any problems during the use of the product.

Register:



Product registration information.

COMMON PROBLEMS AND SOLUTIONS

When there is a problem with the machine

1. Recovery to factory settings or reset;
2. Try reigniting;
3. Please check the phenomena that described in the table below and try to use the solutions;
4. Contact Service Center;

Machine/ function	Phenomena	Solutions
Machine	Cannot power on/off	Check the connection, if it is broken, try to reconnect it; Check the main fuse, if it is damaged, replace it; Press reset key.
	No sound	Adjust the volume; Confirm whether the music and video is supported or not; confirm whether the connection of the power amplifier is lost.
Camera	Abnormal picture	Check whether the camera is covered by foreign matters; Check whether the type of reverse camera is matched or not.
Radio	Noisy; Con not search the station	Ensure there is no metal products around the machine; Driving the vehicle to the place where the radio signal is good and search the station; If the solutions above are invalid, please check whether the antenna is disconnected, damaged, etc.;
Bluetooth	Connecting fail	Please make sure that the Bluetooth of mobile device is turned on, the machine is not connected.
USB playing	Playing fail	Ensure the U disk is not damaged; Please make sure that the format of content is supported.

FCC Statement

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.
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.If thise quipment 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.
Caution: 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 transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
This equipment should be installed and operated with minimum distance 20cm between the radiator&your body.