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## FCC Compliance 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 interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.
- This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.
- The Bluetooth antenna cannot be removed (or replaced) by user.
- This equipment complies with FCC/ IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules.
- This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE).
- But it is desirable that it should be installed and operated keeping the radiator at least 20 cm or more away from person's body(excluding extremities: hands, wrists, feet and ankles).
- Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

### NOTE:

- 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, 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 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:
  - Relocate or reorient 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.

## Safety Information

### Safety Tips

- Please drive according to driving regulations and obey traffic laws;
- Please pay attention to the warning in the manual and avoid the operations that mentioned during the installation and use. The ignoring of any warning would lead to danger;
- Please do not use any function that would disperse your attention in driving. These functions should be used in the parking state. If you need the function, please park the vehicle in the security zone and use handbrake to avoid the occurrence of safety accidents;
- During driving, please keep the volume of music in the state that does not affect any security alert and make sure that the driver could be able to hear the noise out of the window. Driver may not hear the emergency alert or road warning signal because of high volume in vehicle and it may lead to traffic accident;
- For security considerations, driver in the vehicle should not watch the video, please enable the "handbrake test" function in system settings;
- Please do not insert your finger, a foreign matter or conductive material into the gap or slot;
- Please do not wear headset in driving;
- Please do not use the product for any other function except for navigation and multimedia;
- Any accessories should be matched with the parameters of the product during the replacing; Unsuitable accessories might damage the product and cause serious safety accidents, which will lead to personal injury;

### Safety Statement

- This product is the auxiliary equipment for increasing driving experience, please keep the safety in the first place and never be careless or lack of judgment. Please avoid using any function that may affect your safety during driving, otherwise the safety accidents caused by improper operation has nothing to do with our company; Please take the actual situation as the basis for the processing; Such as map navigation, it works only as a reference, please consider the actual road conditions;
- The navigation map provider is responsible for navigation map data;
- Please follow the manual steps. Any serious injury, death or goods damage that caused by the operation that does not be mentioned in the manual has nothing to do with our company;

### Warning

- Please do not disassemble, install or repair the product by yourself. Please contact the manufacturer specified service personnel first if it is necessary. The operation that conduct by the person who has not electronic equipment, vehicle modification or other related training may cause accidents, fire, electric shock, or other dangers;
- Please do not arbitrarily change the system;
- Please do not make products near the fire, contact liquid and avoid the damage to the product that may lead to electric shock, fire and other accidents;
- Please do not install and use this product in the environment that does not meet the installation conditions. Otherwise it may cause the damage to the machine or injury to user;
- Please do not arbitrarily change the emission frequency, increase the transmission power (including add RF power amplifier), add external antenna or use other transmit antennas;

- Please do not make interference to legitimate radio communication services during the using of product. Once the interference occurs, user should immediately stop using the product and the product should not be used unless the interference is disappeared;

## Installation Instructions

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- The vehicle must meet the voltage, current and power that required, please check the conditions before installation;
- The installation should be done while the battery of the vehicle is disconnected;
- To ensure that the product has been fitted with a fuse;
- The installation of the product should not affect the safety of the operation and function of the vehicle;
- The installation position should not block the driver's sight and should not be on the place that the brake, steering wheel, seat belts, airbags and other vehicle safety equipment should be;
- Please confirm the matching condition of the vehicle interface before install this product, use the appropriate patch plug if the interface is not matched;
- Please be familiar with the connection of the vehicle before installation, confirm the position of the piping, electrical wiring, fuel tank and other vehicle system components. Do not touch or damage these components and avoid the exposure of wires that may cause corrosion, leakage, etc.;
- Please do not conduct the installation in place of condensation, drench water sites, high humidity, containing dust and oil smoke. If water, moisture, dust and oil smoke enter the product, it may cause smoke, fire or failure;
- Please do not move or disassembled the existing screws, nuts, bolts, clips, connecting fixed appliances, accessories and so on, do not change or remove vehicle incidental contact system and wire clip, otherwise it may impair the function of automobile safety;
- In order to avoid the occurrence of fire damage to the product or vehicle, please do not allow the existing power supply circuit overload when power the product; Please be sure that the power wires have insulation treatment and install with fuses, circuit breakers and relays;
- Please use nonconductive tape in insulation treatment, wrap the ends of the wire and unused wire; correct insulating treatment can avoid the occurrence of electric arc, electric shock or fire. In order not to impede the brake pedal, gearbox and steering wheel, plastic belt could be used to fix the wires. Please do not make the wires contact high temperature surface, the heat can easily cause damage to the wires and lead to short circuit, arc or fire;
- Please fix the wire on the electric chair or other parts of vehicle where will not lead to the scratch or damage of wire. In addition, the wire should be fixed in the hidden place as far as possible, it will make the environment inside the vehicle beautiful;
- Please do not block the airflow vents, otherwise it may cause internal overheat and fire;
- After the installation is completed, please check the wire connection of the vehicle, then run all functions, including lights, speakers, stereo, reversing operation and other electrical systems and ensure that the vehicle function is normal and can be used safely.

## Usage Notes

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- Please use this product in 9~16V DC voltage range. Mismatched voltage(too high or too low) will cause damage to the product and the battery of the vehicle;
- Please use the 15A fuse;
- Please operate the product at the temperature of -20°C to +70 °C;
- Use the soft wet cloth to wipe the stain gently;
- It is recommended to not use the product in excessive wet environment. If the function is failed, please shut down the product and restart after the moisture dispersed;
- When OS is crashed and affects driving, please park the vehicle in the safety zone and restart the machine;
- When it is in cold start process, it may not be able to accurately display the current time and location, user could use GPS positioning function to correct it;
- The product may not run normally because of bumpy road. Users could reuse this product when the road conditions improve;
- When playing HD video, it is suggested to close navigation system to avoid the stuttering;
- Foreign objects or water into the machine may cause the smoke or smell. When it occurs, please immediately shut down the machine and contact the service center;
- If the product has any fault or any serious damage, stop using and contact customer service center immediately;
- It is not in the scope of warranty that the products cannot run normally, data is corrupted or lost because of operation without manual instruction or artificial damage to the product;

## Statements

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- This manual mainly introduces the function and operation method of the product, it is only used as user's operating guidelines, not as a basis for other criteria and maintenance services;
- When there is improvement of products, specifications and design are subject to change without notice, please consult the supplier for details;
- Without our authorization, the contents of this manual shall not be used for other commercial purposes;
- The final interpretation of this manual shall be owned by manufacturer.

## Front Panel



- ① **Microphone**
- ② **Return to home screen**
- ③ **Enter voice page**
- ④ **Increase volume**
- ⑤ **Decrease volume**
- ⑥ **MUTE off/on**

## Home Menu







- FM/AM** Listen to FM / AM radio broadcasting;
- Phone** Hands-free phoning;
- Bluetooth** Play Bluetooth audio music;
- Android Auto** Connect to Android phone;
- USB** Play music/video in USB stick drive;
- Apple CarPlay** Connect to iPhone;
- iPod** Connect to iPhone/iPod;
- AUX** Listen to External audio;
- Video In** Watch External video;
- Settings** Set the parameters of the product;





## Radio







### FM/AM Switching

Touch  to alternate switch between FM and AM ; Or touch  and then choose   to switch;

### Automatic Search and Storage Station




1. Touch  to automatic search and save station; When search is completed, the first radio station is automatically played and the radio list is displayed;
2. Touch   or  to select the station in the list to play.

### Manual Search Station

1. Touch or hold  or  to automatic search the radio station. If the station is searched, the process will stop and play the current station, and then touch the button to search again;
2. Touch  or  to fine adjust radio frequency;

## Collect Station



1. The area below the currently playing radio station is the radio station collection area; Touch  to collect current station, touch  to play the station;
2. Touch and hold  to replace with current station;

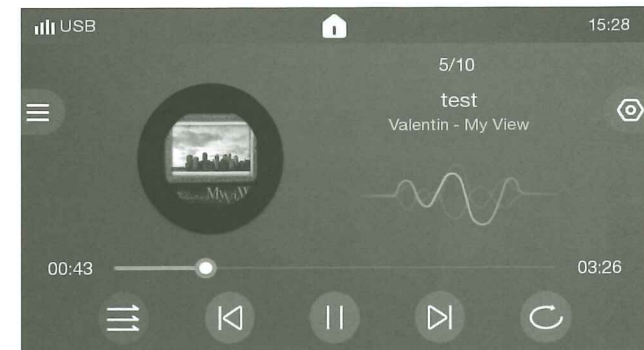
## Media Player

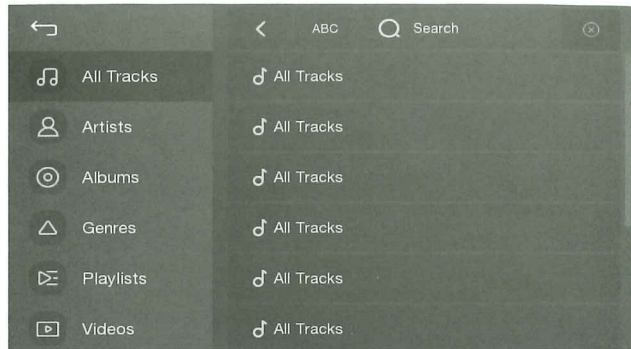
Insert USB Flash Drive with media files.








### Supporting Format

1. Music: APE, FLAC, MP3, OGG ,etc.;
2. Video: 3GP, AVI, MKV, MOV,VOB, DAT, APE, RV, TP, etc.;
3. Picture: JPG, PNG,BMP;

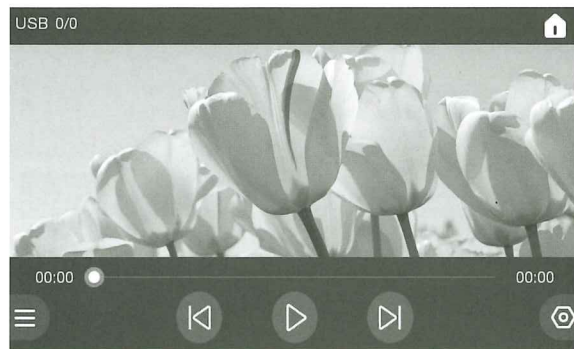
### Play Music







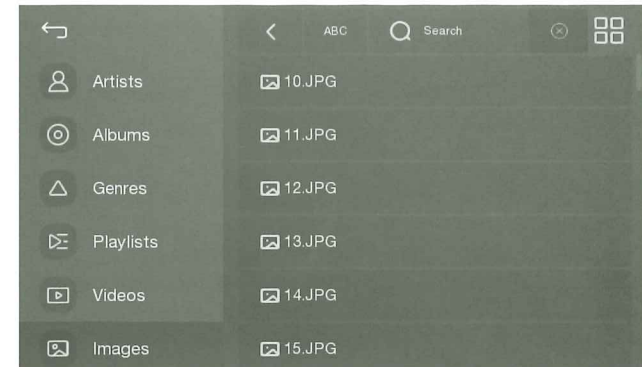
Touch , select  to show the All Music Tracks list, select  to show the Artists list, select  to show the Albums list, select  to show the Genres list or select  to show the Playlists list. Drag up and down the list, touch the selected song to play and adjust the play progress in the progress bar; Touch  to return to the player interface;







### Play Video



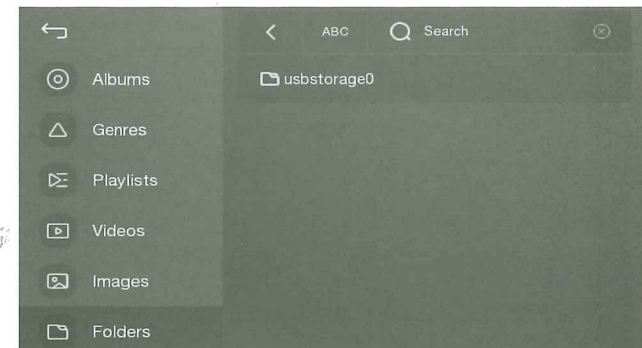
Touch , select  to show the video list. Drag up and down the list, touch the selected video to play. Touch the screen to exit full screen mode;



### View Picture



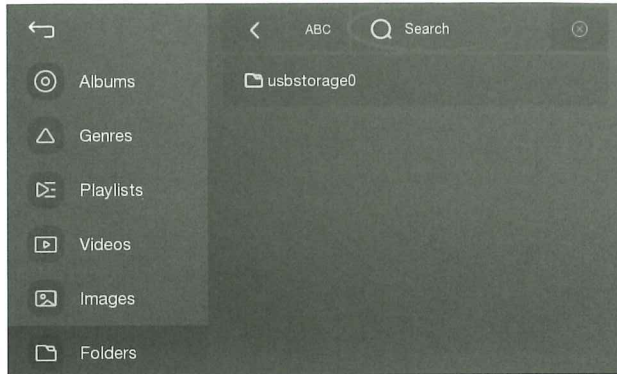
When playing music or video, touch , then touch  to show the list of picture. Drag up and down the list, touch the selected picture to view; Touch  or  to view previous or next picture; Touch  to preview all pictures; Touch  to return to the list.

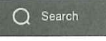

### Play Folder Contents



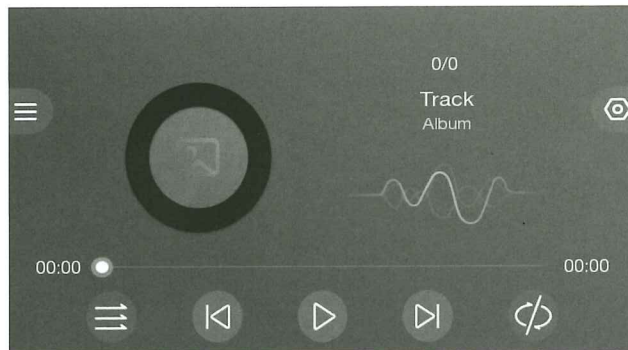
When playing music or video, touch , then touch  to browse folders;



## Content Search





1. Touch  and enter characters to find what you want;
2. Touch  to fast search the file by the first letter;

## Switch Tracks





Touch  or , switch to previous or next music;


## Play/Pause


Touch  to play, touch  to pause;


## Playing Modes

 Order mode; (Play the songs in the list in order)

 Shuffle mode; (Shuffle songs in the playlist)

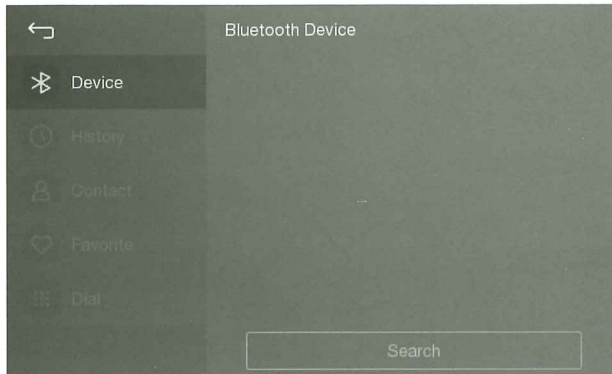
 Non-repeat mode; (If the current is in "Order mode", it will stop playing until the last song is played)

 All repeat; (If the current is in "Order mode", it will start playing from the beginning after the last song is played)

 Repeat once; (The player will keep playing the currently playing song again and again)

## Hands-free

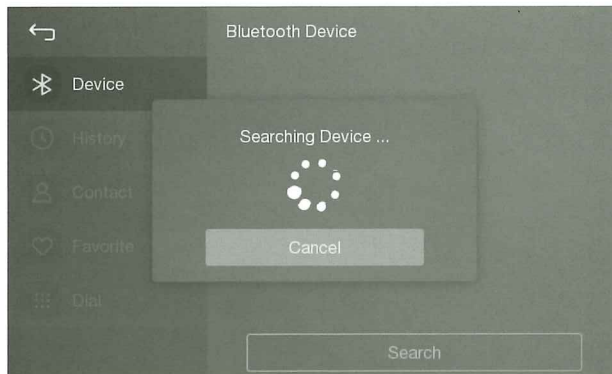
The Bluetooth connection is not available when Apple CarPlay is on.



### Search Bluetooth Device

Please make sure that the device you desire to connect has been turned on and allowed to be detected; Using a mobile device to search the product, the name DM-U720AC\_XXXX will be displayed on your mobile device;

Or touch **Search** to search the surrounding Bluetooth devices. All the devices searched will be displayed on the screen.



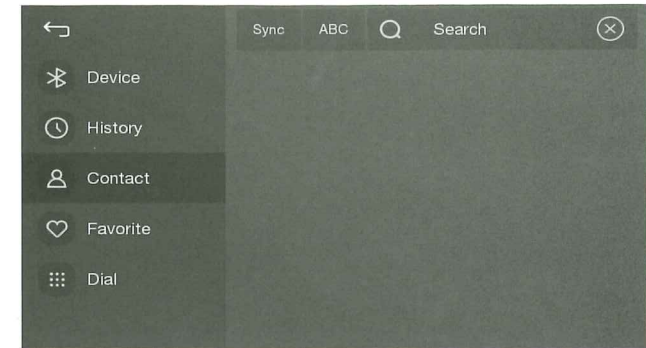
### Bluetooth Pairing

In the mobile device, touch name of the product or choose device on product to connect, and then check the pairing code and touch pair, at last wait for the connection.

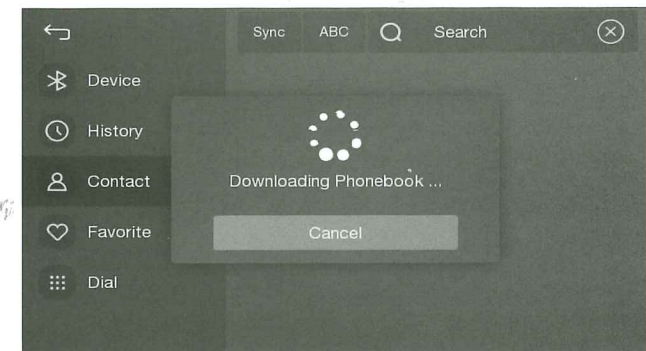
### Automatic Connection

If the connected device is out of the operating range, the Bluetooth connection will be disconnected automatically. If user does not close the Bluetooth function, the Bluetooth is automatically reconnected when the device returns to the operating range in few minutes.

### Download Phone Book



Touch **Sync** to download phone book from mobile device.







## Call Out / Receive Call



1. Dial the phone number for calling;
2. Select a name from the phone book to call;
3. Choose a record in the call history for calling;
4. When call is coming in, choose receiving or hanging up;

## Hands-free Mode and Private Mode



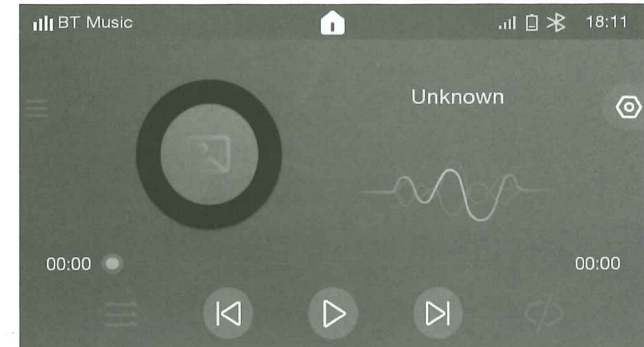
During a call, touch  to switch between Hands-free mode and private mode; Touch  to mute microphone so that the receiver cannot hear from your side.

## Disconnection

1. Touch the connected device name for disconnection;
2. Touch the dustbin next to the device name to disconnect;
3. End the connection directly on the mobile device;

## Bluetooth Audio Music

The product supports A2DP、AVRCP、PBAP and HFP protocol;  
Make sure Bluetooth device volume is turned to max.



## Switch Tracks

1. Touch  or  to switch to previous or next music;

## Play/Pause

1. Touch  to play, touch  to pause or operate on the connected device;

## Wired and wireless Apple CarPlay

iPhone support: minimum iPhone5; Required iOS: minimum iOS 7.1.

### Connecting to USB Port

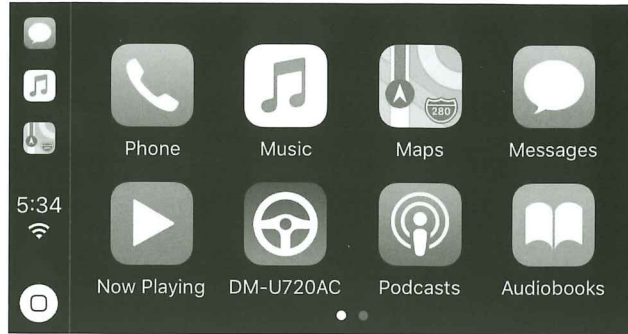
1. Connect the Apple CarPlay compatible device via Lightning® cable (not included).
2. The iPhone will load the Apple CarPlay function.
3. On the display, the Apple CarPlay will illuminate green, touch it to enter the Apple CarPlay menu.

### Wireless Connection


1. When connected to Bluetooth, Apple CarPlay will be reminded to load.
2. The iPhone will load the Apple CarPlay function.
3. On the display, the Apple CarPlay will illuminate green, touch it to enter the Apple CarPlay menu.

Using Apple lightning® cable or Bluetooth to connect iPhone with the product,

and it will automatically show the Apple CarPlay interface; User could directly operate the common functions of iPhone on the product.



### Call Out / Receive Call

Touch  in the main interface of Apple CarPlay mode for Calling;


### Play Music

Touch  in the main interface of Apple CarPlay mode to access all of your content from iTunes;

### Use Map

Touch  in the main interface of Apple CarPlay mode to let the iPhone show you the way;

### Check Message

Touch  in the main interface of Apple CarPlay mode for sending message or check unread message;

### Siri

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

### NOTE

The product's Bluetooth will turn OFF Automatically when Apple CarPlay is in use Hands-free phoning will function through the Apple CarPlay feature. When using Apple CarPlay, there is no need to pair your iPhone, the USB cable connected through the USB Port will enable this feature. If other devices are connected via Bluetooth, they will be disconnected for the duration of Apple CarPlay use.

## Wired and Wireless Android Auto

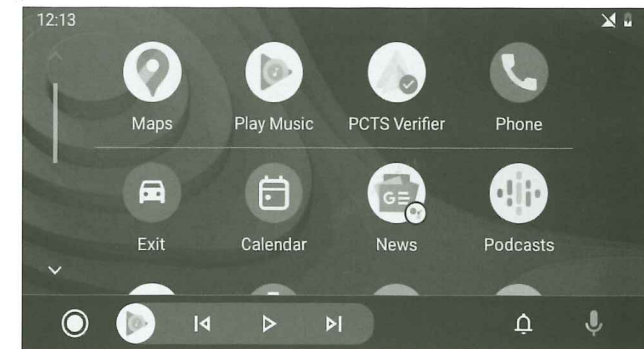
Connect Android phone by standard micro USB cable or Bluetooth, drivers can enjoy the music from their phone, show the way with Google map or other map App and make or receive a call. User need to enable Bluetooth on phones and the product at the same time. Required Android OS: 6.0.  
(Android Auto App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

### Connecting to USB Port


1. Connect the Android compatible device via the appropriate USB cable (not included).
2. The Android device will load the Android Auto function.
3. Bluetooth will connect automatically when the setup is completed.

### Wireless Connection


1. When connected to Bluetooth, Android Auto will be reminded to load.
2. The Android device will load the Android Auto function.




### Use Map

Touch  icon of Android Auto to let the phone show you the way;


### Call Out / Receive Call

Touch  icon on Android Auto for calling;


### Main Menu

Touch  icon of Android Auto to back on main menu;


### Play Music

Touch  icon of Android Auto play music;

## Exit Android Auto

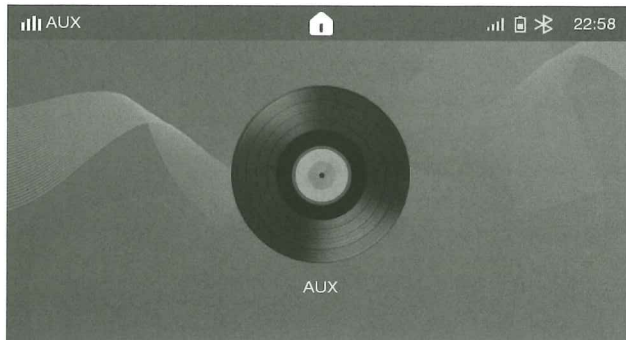
Touch  icon to return to native screen;

## Google Assistant

Touch  for using Google Assistant, such as issuing a call, playing music, opening the map and other voice commands;

## AUX

Connect to enjoy external audio.

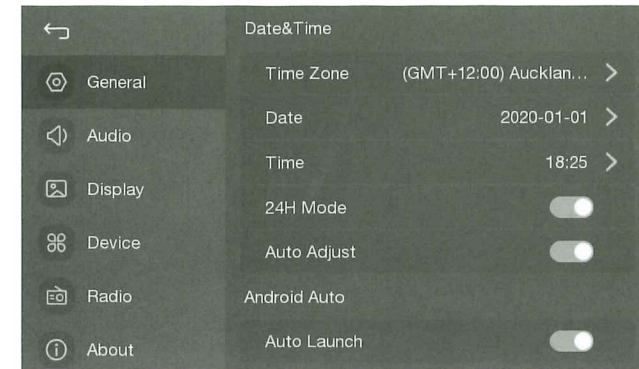


## Video In

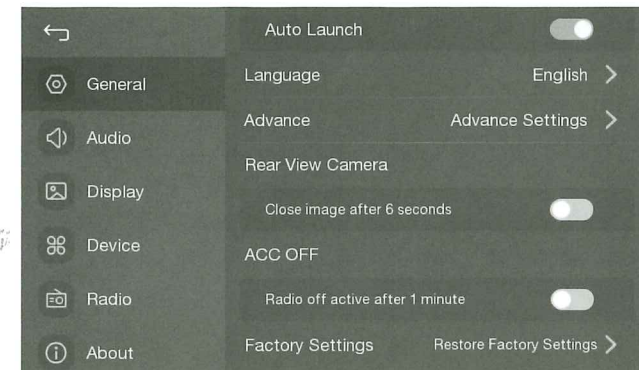
Connect to enjoy external video.

## Settings

### General Settings



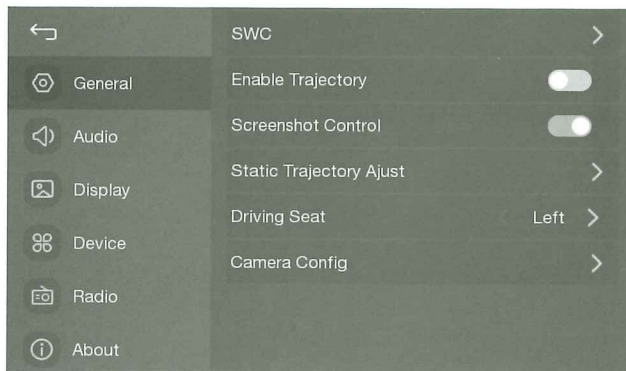
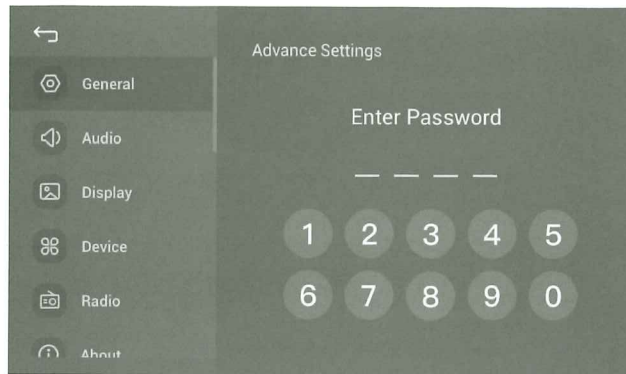
- 1.Touch to select the time zone in the region;
- 2.Touch to set date, touch OK for setting done;
- 3.Touch to set the time, touch OK for setting done;
- 4.Open/Close 24H mode;
- 5.Open/Close Auto Adjust mode ;




- 6.Open/Close auto launch for Android Auto(Android Auto projection mode is active or not);
- 7.Touch to select language, and then touch OK to restart automatically;
- 8.Enter advance settings;
- 9.Open/Close Rear View Camera Delay mode;
- 10.Open/Close ACC OFF Delay mode;
- 11.Touch to recovery to factory settings;

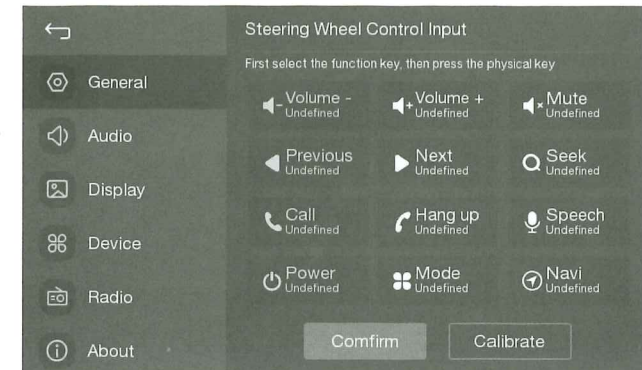
## Advance Settings


Enter password 0000



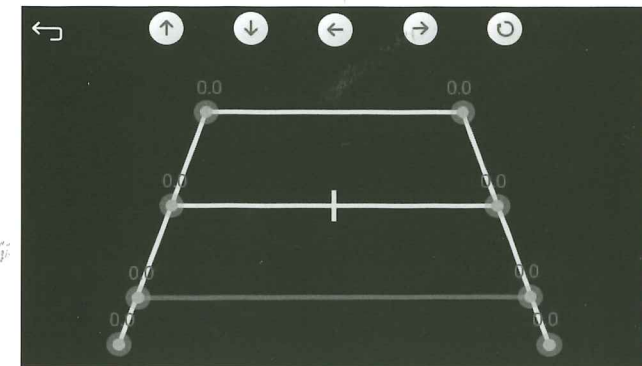
1. Steering wheel control;
2. Open / Close static reversing trajectory;
3. Open / Close the Screenshot mode;
4. Enter static reversing trajectory adjust setting;
5. Touch to choose left driving position or right driving position (for Apple CarPlay), reconnect to take effect;
6. Switch camera type;
7. Touch  to return;






## Steering Wheel Control Key



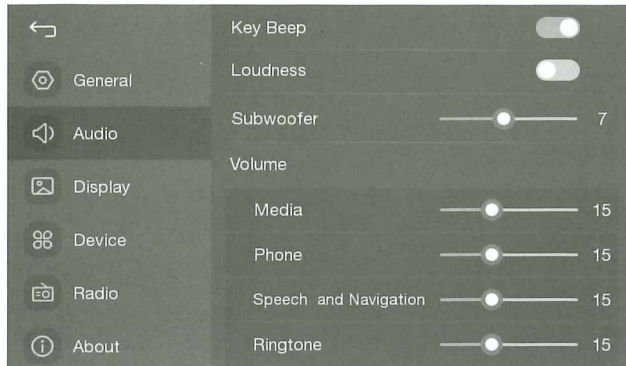
When the  is rotating, Touch the wanted items to set. Pressing one steering wheel key when the screen pop a window with “**Press the physical key on the steering wheel**”, the key will keep the function of the item after touching **【Confirm】** with the item displaying **【Activated】** (repeat all wanted items before confirm). One key has just a function after setting for once. Touch **【Calibrate】** to recalibrate the key.

## Static Reversing Trajectory Adjust

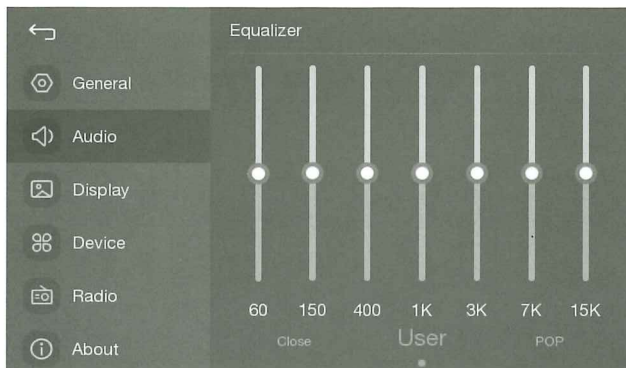


1. Touch and move the point on the static reversing trajectory to adjust the position of the trajectory.
2. Touch a point on the static reversing trajectory and touch     to fine-tune the position of the trajectory. Touch  to reset the trajectory.

## Audio Settings

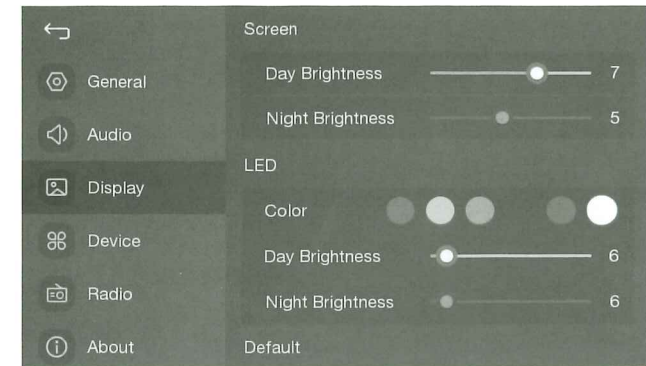


1. Open / Close beep, one touch one beep;
2. Open / Close loudness effect;
3. Regulate subwoofer effect;
4. Adjust the volume of each source;



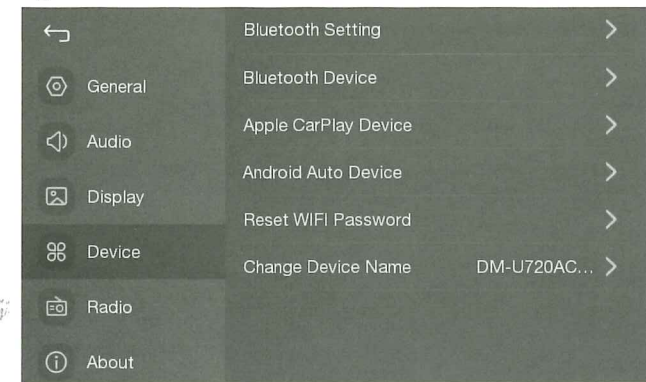
5. Select the sound effect, choose it directly;
6. Move original point to adjust the speaker output balance;

## Display Settings



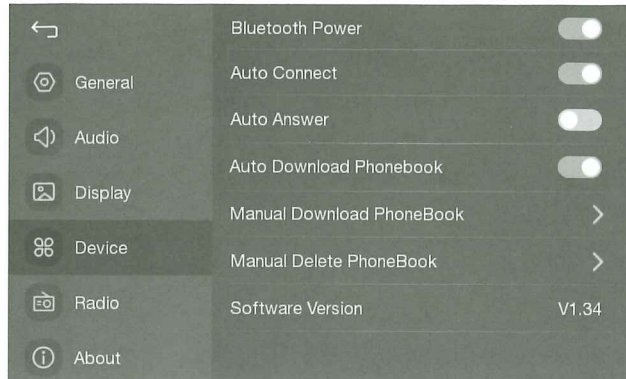
1. Adjust screen brightness (when vehicle light is on, adjust moon brightness);
2. Select LED key color; Adjust LED brightness (when vehicle light is on, adjust moon brightness);
3. Recover to default values;

## Device Settings



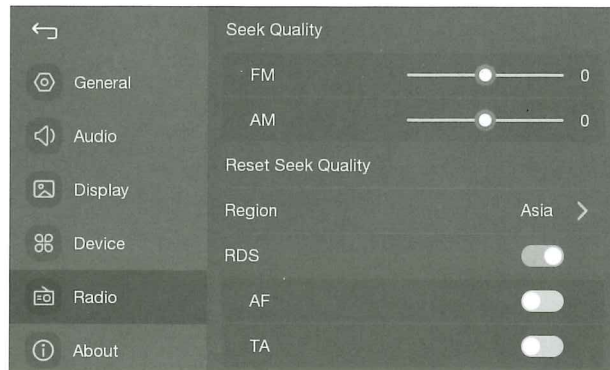
1. Touch to enter Bluetooth Setting;
2. Touch to view Bluetooth device list;
3. Touch to view the list of paired Apple CarPlay device;
4. Touch to view the list of paired Android Auto device;
5. Touch to reset WIFI password;
6. Touch to modify the product name

## Bluetooth Settings



1. Open / Close Bluetooth;
2. Open / Close automatic connection;
3. Open / Close automatic receiving; if open, the incoming call will be received automatically;
4. Open / Close automatic download PhoneBook; if open, the product will automatically download PhoneBook from mobile phone when Bluetooth connection is done(need permission of mobile phone );
5. Touch to manual download PhoneBook;
6. Touch to manual delete PhoneBook;

## Radio Settings



1. When the scan quality is adjusted to the left, the stop sensitivity will be improved(more stations); On the contrary, the stop sensitivity will be decreased(less stations);
2. Touch to recover to default stop sensitivity;
3. Touch to select the region, please do not change the settings arbitrarily;
4. Open / Close RDS function. when RDS is on, AF and TA can be selected ;
5. Open / Close AF to re-tune to a different frequency providing the same station;

6. Open / Close TA to receive the signal of an actual traffic announcement in progress;
7. Open / Close Soft Mute to reduce the noise between signals;

Addition: Touch about to check product version.

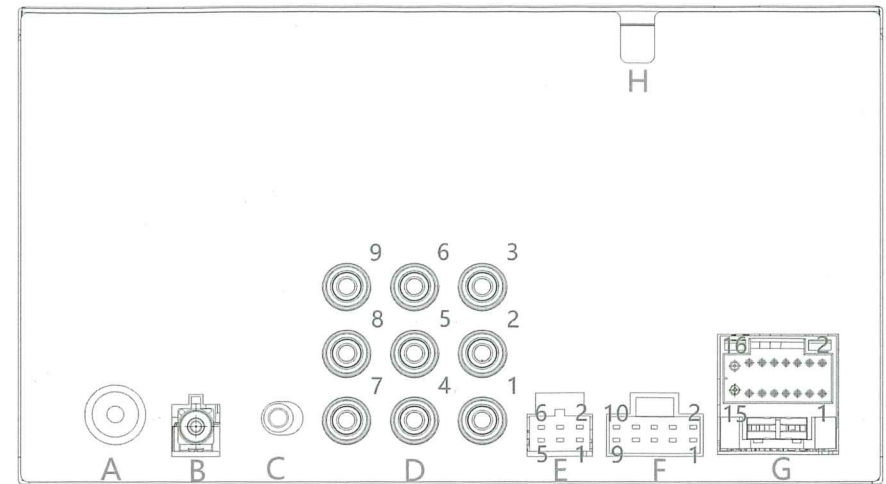
## Common Problems and Solutions

When the machine malfunctions

1. Recovery to factory settings;
2. Try reigniting;
3. Please check the phenomena that are 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;<br>Check the main fuse, if it is damaged, replace it;  |
|                  | No sound                         | Adjust the volume;<br>Confirm whether the music and video is supported or not;<br>Confirm whether the connection of the power amplifier is lost;   |
| Reversing        | Abnormal picture                 | Exit reversing mode and enter again;<br>Check whether the camera is covered by foreign matters;<br>Check whether the type of reverse camera is matched or not;<br>Check the reversing signal cable;  |
| Radio            | Noisy; Cannot search the station | Ensure there is no metal products around the machine;<br>Driving the vehicle to the place where the radio signal is good and search the station;<br>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;<br>Please make sure that the format of content is supported;   |

## Interface definition



|   |  |   |                  |
|---|--|---|------------------|
| A | RADIO                                  | E | PARKING+SPEED    |
| B | GPS                                    | F | VIDEO IN         |
| C | EXT MIC                                | G | POWER+AUDIO      |
| D | LINE OUT+CAMERA IN+VIDEO<br>OUT+AUX IN | H | USB(MEDIA/CP+AA) |

| Connector D |                |
|-------------|----------------|
| PIN         | DEFINITION     |
| D1          | LINE OUT FR    |
| D2          | LINE OUT FL    |
| D3          | VIDEO CVBS OUT |
| D4          | LINE OUT RR    |
| D5          | LINE OUT RL    |
| D6          | LINE OUT SUB   |
| D7          | AUX R/IN       |
| D8          | AUX L/IN       |
| D9          | CAMERA CVBS IN |

| Connector E |            |
|-------------|------------|
| PIN         | DEFINITION |
| E1          | SPEED      |
| E2          | GROUND     |
| E3          | PARKING    |
| E4          | AMP_ACC    |
| E5          | NC         |
| E6          | NC         |

| Connector F |                          |
|-------------|--------------------------|
| PIN         | DEFINITION               |
| F1          | GROUND                   |
| F2          | NC                       |
| F3          | NC                       |
| F4          | NC                       |
| F5          | GROUND                   |
| F6          | EXT ACC/CAMERA POWER 12V |
| F7          | NC                       |
| F8          | VIDEO IN                 |
| F9          | NC                       |
| F10         | NC                       |

| Connector G |            |
|-------------|------------|
| PIN         | DEFINITION |
| G1          | Rear R[-]  |
| G2          | Front L[+] |
| G3          | Rear R[+]  |
| G4          | Front L[-] |
| G5          | Rear L[+]  |
| G6          | Front R[+] |
| G7          | Rear L[-]  |
| G8          | Front R[-] |
| G9          | ANT.Power  |
| G10         | KEY A      |
| G11         | KEY B      |
| G12         | REVERSE    |
| G13         | ILL        |
| G14         | ACC        |
| G15         | BATTERY[+] |
| G16         | GROUND     |



# Wire Harness

| Item | Name                | Photo  |
|------|---------------------|--|
| E    | PARKING+SPEED Cable | <p>Diagram of PARKING+SPEED Cable. Total length is <math>150 \pm 10</math>. A braided shield section is <math>50 \pm 5</math> long. A connector at the end is <math>40 \pm 5</math> long and labeled 'SPEED'. Callouts 1, 2, 3, and 4 indicate specific points on the cable.</p>   |
| F    | VIDEO IN Cable      | <p>Diagram of VIDEO IN Cable. Total length is <math>150 \pm 10</math>. A braided shield section is <math>50 \pm 5</math> long. The connector end has three video inputs, each <math>3-20 \pm 5</math> long, with a <math>6.0 \pm 0.5</math> diameter. One input is labeled 'Yellow' and 'M1'. A section of length <math>6-40 \pm 5</math> is also indicated. Callouts 1, 2, 3, 4, and 5 indicate specific points on the cable.</p> |
| G    | POWER+AUDIO Cable   | <p>Diagram of POWER+AUDIO Cable. Total length is <math>200 \pm 10</math>. Two sections of length <math>30 \pm 5</math> are shown. The cable contains wires labeled '16#', '22#', 'ACC', 'REVERSE ACC', 'BATT', and 'INT'. A section of length <math>95 \pm 5</math> is also indicated. Callouts 1, 2, 3, 4, 5, 6, and 7 indicate specific points on the cable.</p>   |