Reminder

Un-installation of detachable front panel:

1. press the "Detachable control button" and press hard in position, as illustrated.
2. Pull the small panel to right after it pop up, as illustrated.

Small panel, as illustrated

Installation of detachable front panel:

A. Left hand holds the left side of the small panel, and right hand holds the lower right corner of it. Icon A clicks to Icon B, as illustrated.
B. Moving the small panel snap to the left side of the dvd, as illustrated.
C. Hold the small panel left side by left hand, and push down the lower right corner of small panel. It will make a sound "click", as illustrated.

Note
While disassembling press this button to, and press this button is wrong.

The wire connection of steering wheel control

A. Please note before installation:
1) The wire of the steering control wheel, KY1, KY2 cannot connect with 12V or over 5V electric current.
2) Before installation please confirm whether there is original steering control wheel in the car.
3) Before installation, please refer to the manual "coil connector" section.
4) KY1 (brown wire) KY2 (white wire) connect with the control wire on the steering control wheel, GND (black wire) connect to the ground.

Steering wheel installation instruction

1) After power switch-on, please touch the " icon on the main UI (F. 1a) and go in as the green arrow on the picture (F. 1b) as below.

F. 1a

F. 1b

2) As the steering wheel control- UI shows out (F. 2), please follow the instruction to press the key. Then long-press the button on the steering wheel, on the UI you can choose the function key you want to. Use the same operation way for the other function as the green arrow shows on the below picture.

Note: switch-off after change to the steering wheel control, it is not necessary to reset when switch-on again! It is not necessary to reset if use the same steering wheel.
GPS insertion and routine setting and language

1. Shut down after, press the button and take off the detachable panel. Then you can see the GPS/SD port as shown in figure red arrows.

2. With SD card metal face downwards, insert corresponding GPS card slot, as shown in figure red arrows.

3. Insert the mini-SD into the port as the red arrow shows on the picture.

4. After startup, in the main interface click on "GPS" icon, enter GPS navigation main interface, as shown in figure red arrows.

5. Enter to the GPS UI, touch to "Settings" and go in to the GPS navigation function as the red arrow shown on the picture.

6. On GPS navigation UI, touch to "NavSetting" and go in to the routine setting on the red arrow shows on picture.

7. Please press & set the routine on the map as the red arrow on above picture. Then press the file & go to:
   File: SDMMC
   File: the file name you select
   e.g. digital K.D.99 map
   File: Navience.exe (as the next picture)

8. In GPS navigation UI, press the "Language" and go in, after setting and press and return to GPS main menu as red arrow shows on the picture.

9. Touch to "navigation" and start after press GPS UI as the red arrow shows on picture.

Touch screen adjustment

Touch to the "adjust" on main menu and get in, there is + mark on UI. Follow the indication and touch to the + mark in order (A, B, C, D, E) and complete the adjustment. Please touch to the centre position of the + as the red spot showed on the above picture, otherwise the adjustment cannot be completed.
DVD/VCD/CD/MP3/DIVX/CD-R/WMA/JPG

To appropriate normal operation, please read this manual carefully and keep it properly for reference.
- ISO 1 DIN Mounting size
- 16:9 HD touch screen LCD (resolution: 800x480)
- Support Bluetooth handsfree call, Bluetooth music playing
- Unique 3D Flash User Interface
- Picture-in-picture function
- Built-in analog TV function (optional)
- Built-in digital TV (optional)
- Detachable from panel
- Panel swivels left/right
- Radio functions, FM1 / FM2 / FM3 / AM1 / AM2, 30 preset stations, RDS support
- USB port and SD card slot (support up to 8 GB)
- AUX in
- Front left, front right, rear left, rear right and subwoofer, 4.1 channel output
- iPod control (optional)
- Built-in GPS navigation, support dual-zone play (optional)
- Support steering wheel control
- Date and time display
- Switch wallpaper
- DVD screenshot (Images can be set to read disc LOGO)
- Select car logo as power on picture freely
- Support night mode

---

**Safety precautions**

Please read all the instructions before installation, and ask the professional technician to install the car audio & video system.

⚠️ This device is suitable for 12V vehicle power supply (earth wire should be connected). Do not install this device in the truck or bus with 24V power supply, or else the device will be damaged.

⚠️ Please use authentic discs. Do not use non-standard or inferior discs, or else it may cause device failure or affect the service life.

⚠️ Do not replace the fuse of the power supply or use improper fuse without the guidance of professionals, or else it may cause device damage and cause fire.

⚠️ To avoid violating traffic laws, the driver shouldn’t watch or operate the device while driving, or else it may cause accidents.

⚠️ To ensure safety and normal operation of the device, please consult the professional to install. Do not disassemble or repair the device by yourself to avoid device damage and accidents. Please consult local distributor for details.

⚠️ Do not put the device in damp environment or water to avoid electric shock caused by short circuit, unnecessary damage and fire.

⚠️ Do not use the device in the environment with strong magnetic, or else GOS, Bluetooth and digital TV will be affected.

⚠️ Before turning off the ignition switch, please turn off the power switch of the device first, or else the power switch will consume the battery.

**Tip:** To avoid short circuit, please switch off the engine and disconnect ACC from B+.
Safety precautions:

Thanks for purchasing the car audio & video system of our company. Before using the product, please read this manual carefully, and keep it properly for reference.

To avoid personal injury or other dangers, please read the precautions carefully:

1. Keep water or other liquids away from the device.
2. Do not put or install the device in the environment with moisture or high temperature; do not contact chemicals and prevent fire and other damages.
3. Replace the battery of the remote control regularly to ensure that the device can work normally. In case that the battery leaks, wipe it with dry cloth or tissue, and replace the battery. Do not put the battery on metal objects and keep it away from children to avoid accidents. Follow local laws and regulations when using the battery.
4. If the LCD cracks and the liquid crystal splashes, avoid contacting skin or eyes and mouth, and contact the maintenance personnel to replace the LCD. Follow local laws and regulations when replace the LCD.
5. Do not squeeze, press or scratch the device. Wipe the device surface rather than the LCD with dry cloth and tissue. To avoid damaging the device, do not apply too much force.
6. If there is any problem during operation, please cut off the power supply immediately, and check according to “Troubleshooting”. If the problem can’t be solved, please contact the distributor or local service center.
7. Replace the fuse with same model (current grade), or else it is very dangerous and will cause damage.
8. The device supports AUX, SD, BT, IPOD, USB, GPS, DVD, VCD, CD, MP3, MP4, as well as TV and radio.

Installation position

Do not install the device in the positions that:

1. Affect the sight of the driver;
2. Affect the operation of steering wheel, gear lever and brake pedal.

Installation:

1. Ask qualified personnel to install the device.
2. If you want to install by yourself, please strictly follow the instructions and wiring diagrams in this manual, or else it may cause fire.
3. Before installation, switch off or pull out the ignition key. During installation, battery current may leak or short circuit when the engine is turned on.
4. When installing the device, make sure not to damage any tube, wire or electronic parts of the battery, or else it may cause fire. When drilling holes in the dashboard of the vehicle, do not damage any components.
5. Do not use any nut or screw as the safety device, such as turning connection device and fuel supply or brake system, or else it may cause fire or accidents. Condensate water.

In rainy day or damp environment, the laser head in the device will produce vapor and can't read the disc. Turn off the device until the moisture is cleared, and then resume normal operation.

LCD:
Do not squeeze the LCD, or else it may cause image distortion or failure. The image may be blurry and TFT may be damaged.

Precautions of TFT cleaning:
* Use soft wet cloth to wipe the display gently.
* Do not use any reagents, such as gasoline, thinner, detergent or anti-static spray.
* If the vehicle is parked at the place with extreme temperature, the image may be blurry. This isn't the failure of display, and the image will be clear when the temperature resumes normal.
* The LCD may have "bright spots", which are acceptable in LCD technology.

DVD player:
* Only use normal round discs, while irregular or distorted discs may be blocked or can't be read. Before playing, check whether the disc is pasted with label or scratched; if yes, do not use the disc to avoid damaging the player.
* Hold the edge of the disc and do not touch the burning surface (isn't printed).
* Put the disc in the box if it won't be used.
* Do not put the discs at the place with high temperature or directly irradiated by sunshine.
* Do not paste labels on the disc surface, smear or use chemicals.
* When cleaning discs, wipe from center to edge with soft cloth.
* When the radiator is used in cold days, vapor will generate in the player and cause failure of the player. To solve this problem, turn off the player for about one hour, and wipe the moisture on the disc with dry cloth.
* The playing may be stopped if there is strong vibration when driving on the road.

Panel Illustration:

1. Panel swivels left/right
2. Main menu
4. Power on/off
5. Mode button
6. Remote control sensor
7. Small LCD screen display
8. GPS navigation switch button
9. Eject
10. Microphone
11. Multi-function button
12. Detachable control button

1. GPS Card Slot
2. SD Card Slot
3. EQ/AF
4. Loud/TA
5. Reset button
6. Open/Close
7. LED lamp
8. Panel angle control
Main menu

Press the key to turn on the device and enter the main menu, including RADIO, DISC, GPS, SD, AUX, BT, DTV, TV, IPOD and USB, as shown in Fig. A1 and B1. Except in the main interface, touch the button in the upper left of any other interface to enter night mode. In this way, when the headlights of the vehicle are turned on, the screen of this device will become darker. In the main interface, if there is no operation in 10 seconds, the system returns to the playing interface automatically. Three types of wallpaper are available.

Radio

Click menu to enter radio mode, as shown in Fig. A1:

Auto scan
Band switch: Click button to switch among FM1, FM2, FM3, AM1 and AM2.
Click to return to the main interface
Audio setting, as shown in Fig. B1
Click to enter frequency spectrum, as shown in Fig. B2
Night mode: Click to enter night mode

Stereo indicator
Press to scan channels upwards manually, or press and hold it to scan automatically
Press to scan channels downwards manually, or press and hold it to scan automatically
Note: Each band scans six radio channels and totally 30 channels. When the radio channels are preset automatically, all the channels not previously will be canceled.

Short range/remote control button
Back to previous interface
"Picture in picture" button
Note: The device is set to standard state in the factory, and the users can customize according to requirements.

Bluetooth

Click menu to enter Bluetooth mode, as shown in Fig. A1:

1. Pair: Enter the Bluetooth interface and search for new device in the Bluetooth option of the mobile phone, select Connect when finding this device and type the pairing password (0000)
2. Call: After pairing, click the buttons (0-9) directly to type the desired number and then click to call the number
3. Clear: When typing the telephone number, you can click to clear last character or click to clear all numbers
4. Answer: If there is incoming call, you can click to answer and click to end the call (Note: When there is incoming call, the system switches to Bluetooth interface automatically, stops playing music or radio, and displays caller number)
5. Call log: Touch the icon to enter call log menu, which has the same function with the call log of the mobile phone and allows viewing answered/missed called/dialed numbers and calling the numbers, as shown in Fig. B1
6. Bluetooth music playing: Touch the button to enter music player menu, in which you can select previous/next track, play or pause, as shown in Fig. B2

Automatic frequency switch: The "AF" icon is constantly on for RDS radio channels, and flashes otherwise. Press and hold to scan RDS channels only.
Automatic frequency tracking: Click the TA key to enable the automatic tracking function. When the device receives RDS signals, it switches to RDS channel automatically; click the TA key again to disable the automatic tracking function.
Click the PTY button to select from the 31 programs of RDS
Channel storage button: Press M1-M6 button to select the saved channels; press and hold M1-M6 button to save current channel to the button.
Disc playing interface

Click menu to enter DVD playing mode, as shown in Fig. A1:

- **Menu playing button:** When playing DVD, press this button to display the program list.
- **Prev/FR button:** In disc playing state, press this button to select previous track, press and hold this button to fast forward in X2/X4/X8X20 speed. During fast forward, press the Play button to resume normal playing.
- **Next/FF button:** In disc playing state, press this button to select next track, press and hold this button to fast forward in X2/X4/X8X20 speed. During fast playing, press the Play button to resume normal playing.
- **Pause/Play button:** When playing DVD, press this button to pause and press it again to resume normal playing.
- **Stop button:** When playing DVD, press this button to stop and press the Play button to resume normal playing.
- **VOL+/-**
- **Page turning button:** Touch this button and more buttons are available.
- **Repeat**
- **Random**
- **Snapshot**
- **Audio channel switch**
- **Subtitle switch:** Available when playing files with various subtitles
- **Playing time and program display**

* Click this button again to have B1 interface:

- **System menu setting**
- **Prev./Next menu button:** Touch this button to select previous/next menu
- **Left/Right menu button:** Touch this button to select left/right menu
- **OK button**
- **Click to enter audio setting**
- **Click to enter video setting**
- **Click to enter sound effect setting**
- **PIP**

---

TV interface operation

Click menu to enter TV mode, as shown below:

- **Prev./Next channel**
- **Automatic scan channels**
- **Select previous/next frequency**
- **Format switch**

---

AUX input

Click menu to enter AUX mode, as shown below:

- **Click to enter PIP**

---

iPod interface

Click menu to enter iPod mode, as shown in Fig. A1:

- **Show contents**
- **Prev./Next**
- **Play/Pause**

---

iPod music interface

- **iPod music interface**

---

iPod video playing

- **Repeat playing**
- **Video playing**
SD/USB playing

Click menu to enter SD/USB mode, as shown below:

SD interface 1

SD interface 2

USB interface 1

USB interface 2

GPS operation

Click menu to enter GPS mode, as shown below:

1. Enter the GPS interface and click "Settings" to enter GPS settings, as indicated by the red arrow in the picture.

2. In GPS settings interface, click "Settings" to enter path settings, as indicated by the red arrow in the picture.

Main menu 2 operation

Click menu to switch to main menu 2, as shown below:

1. System settings

2. Video settings
3. Audio settings

Beep is optional.

4. Time adjustment

Click the Up/Down button to adjust the year, month, day, hour and minute, and set the time format.

5. Car symbols

Car symbols 1

Car symbols 2

6. Sound effect

7. Calibration

Click "Calibrate" in "Menu" to enter calibrate interface. A cross cursor appears in the interface, click the cross center (A, B, C, D, E) according to prompt to complete the calibration.

8. Steering wheel control settings

A. Please note before installation:
1) Do not connect the steering wheel control wires KY1 and KY2 to power supply higher than 5V, and do not connect to the ground.
2) Make sure whether the vehicle has steering wheel control function before installing.
3) Refer to the “Wiring Diagram” in the manual before installing.
4) Connect KY1 (brown) and KY2 (white) to the steering wheel control wire of the vehicle and connect GND (black) to the ground.

Steering wheel control wire

B. Operation after installing the wire
1) Click the "FI" icon in the main interface to enter the second page of the main menu, as indicated by the arrow in the picture below:

2) In steering wheel control interface, press and hold the steering wheel button according to the prompt, select the desired function button, click the button and the configuration completes automatically. Set other function buttons in same operation, as indicated by the arrow in the picture below:

Note: Turn off the device after setting the steering wheel, and it doesn’t require setting when the device is restarted.
Remote control diagram

1. Power button
2. Mode switch button
3. Pause/Play button
4. Mute button
5. Band/System button
6. Menu selection buttons
7. Enter button
8. Stop/Back button
9. Program playing/stereo/single channel switch button
10. Repeat playing/Auto memory button
11. VOL+/-
12. Random/short range/remote control button
13. PBC playing
14. Playing time display switch
15. Number buttons
16. Subtitle settings
17. Title contents setting button
18. Setting menu button
19. Slow playing button
20. Angle selection button
21. Image zooming button
22. Audio settings
23. Radio channel selection/DVD track selection/Fast forward/Fast rewind button
24. Audio channel switch button
25. Playing time setting button

Precautions of remote control

Point the remote emitter of the remote control to the remote receiver of the device and perform operations.

(2) Replacing battery for the remote control
1) Press and hold plug 1 and pull out the battery slot.
2) Keep the surface with (+) symbol upwards and insert the button battery.
3) Put the battery slot in the remote control until it is clipped.
Advanced operation

1. Menu selection
Press the direction buttons ← → ↑ ↓ to select desired menu and then press ENTER or ● to confirm.

2. Band/system selection
In radio mode, press INV/T to select the receiving band. Press and hold this button to select the TA function.
In disc playing mode, press INV/T to select AUTO/PAL/NTSC. Press and hold this button to select the TA function.

3. VOL+/−
Press VOL+/VOL− to turn up/down the volume.

4. Tune/Track selection/Fast rewind/Fast forward
In radio mode, press • or • repeatedly to scan radio channels manually; press and hold • or • to scan the channels automatically. In disc playing mode, press and hold • or • to select the desired program, or press • or • to select the previous or next program.

5. Program playing
In DVD, VCD, CD or MP3 mode, press the PRO button to have the programming interface, in which you can set desired titles and tracks, and press • to play.

6. OSD
In CD/VCD/DVD mode, press SL to show the played time, left time, total time, played tracks and disc contents on the screen.
Note: In MP3 mode, OSD only shows the played time.

7. Volume/Bass/Treble/Balance selection
Press • repeatedly to select desired mode.

8. Repeat playing/Auto scan
In disc mode, press the MSRP button to select Repeat chapter, Repeat title, Repeat all, or OFF (the mode depends on the disc format).
Note: 1. In disc mode, the default setting is Repeat all.
2. In radio mode, press MSRP to scan and store every channel.

9. Random playing
In playing state, press RNG button to activate/deactivate random playing; if this option is activated, the playing will be in random.

10. Number buttons
In radio mode, press a number button (0-6) to select a channel saved in the band.
In disc playing mode, press (0-10+) to select a track; for example, if you want to select track 15, press 10+ and 5, and track 15 will be played.
Note: In PBC playing mode, number buttons are invalid.

11. Left/right audio channel/Stereo selection
In disc playing mode, press • repeatedly to select left/right channel/stereo
Note: In surrounding mode, five effects are available; in VCD mode, you can find different image effects.

12. Playing PBC (menu)
In DVD/VCD mode, when you first press PBC, the PBC playing starts. The disc menu appears on the screen. Press (0-10+) to select desired track. To switch the track while playing, press • to return to the menu, and press PBC again to cancel PBC playing.

13. Subtitle selection
In DVD mode, press AUDIO to select the language.

14. Setting disc playing time
In disc playing state, press the V-O button to display the chapter, title and time on the screen, press 0-10+ to enter desired playing time, press ENTER to confirm, and the device plays the selected state automatically.

15. Mode switch
Press the MODE button to switch to Radio, Disc, SD, USB, TV, Input or GPS

16. Stopping playing
In DVD mode, press • to pause, press Play to resume the playing and press it again to stop playing.

17. Angle button
In DVD playing mode, press ANGLE to watch the DVD in different angles.
Note: Certain DVD doesn’t support this function, so do MP3, VCD and CD.

18. Slow rewinding/Slow forward
In DVD/VCD playing mode, press SLOW once to play in 1/2 speed, 1/3 speed for twice, 1/4 speed for the third time, 1/5 speed for the fourth time, 1/6 speed for the fifth time, 1/7 speed for the sixth time, and resume normal playing for the seventh time.
Note: MP3/CD mode doesn’t have this function.

19. Settings
1) In playing mode, press SET UP on the remote control
2) The settings menu is shown below:

![Settings menu]

3) Press the direction buttons ←→↑↓ to select an item.
4) Press ENTER

I. System
This setting interface includes TV system, Auto play, Video output, Aspect ratio, Password, Rate, and Default. Please refer to system settings menu for details.

II. Language
This setting interface includes all language options of OSD menu. Please refer to language settings menu for details.

III. Audio
This setting interface includes all audio items. Please refer to audio settings menu for details.

IV. Video
This setting interface includes all video items. Please refer to video settings menu for details.

V. Dolby Digital
This setting interface includes all digital setting items. Please refer to digital settings menu for details.
**System settings**

- **TV system**
  - NTSC
  - PAL
  - AUTO

- **Auto play**
  - ON
  - OFF

- **Video output**
  - S-VIDEO

- **Aspect ratio**
  - 4:3 PS
  - 4:3 LB
  - 16:9

- **Password**
  - 1KID SAFE
  - 2 G
  - 3 PG
  - 4 PGB
  - 5 PG-R
  - 6 R
  - 7 NC-17
  - 8 AOUL T

- **Rate**
  - Default

- **Default**
  - Reset

---

**Note:**

**TV system**
This device can play the discs burned in PAL or NTSC format. Select NTSC format when it is connected to NTSC TV, and select PAL format when it is connected to PAL TV.

**Aspect ratio**
1. 4:3 plane scanning
   *Play in plane scanning mode (the left and right edge will be cut off if it is connected to wide screen display).*
2. 4:3 mailbox
   *Play in mailbox mode (black strips appear in the top and the bottom if it is connected to wide screen display).*
3. 16:9
   *Select this option if it is connected to wide screen TV set.*

**Password**
Type the password and press ENTER. Type the old password (default: 0000), type new password, repeat the new password and then press ENTER.

---

**Language**

- **OSD language**
  - ENGLISH
  - GHINESE
  - GERMAN
  - SPNISH
  - FRENCH
  - ITALIAN
  - RUSSIAN

- **Audio language**
  - ENGLISH
  - GHINESE
  - GERMAN
  - SPNISH
  - FRENCH
  - ITALIAN
  - RUSSIAN

- **Subtitle language**
  - ENGLISH
  - GHINESE
  - GERMAN
  - SPNISH
  - FRENCH
  - ITALIAN
  - RUSSIAN

- **Menu language**
  - ENGLISH
  - GHINESE
  - GERMAN
  - SPNISH
  - FRENCH
  - ITALIAN
  - RUSSIAN

---

**Rate**
Use the cursor to select appropriate rate and press ENTER to confirm.
1. [Children]: This rate is suitable for all children.
2. [G]: This rate is suitable for the people of all ages.
3. [PG]: This rate requires guidance of parents.
4. [PG13]: This rate is suitable for children older than 13.
5. [PG-R]: Select this rate if the DVD is printed with "PG-R".
6. [R]: The children younger than 17 should be guided by their parents.
7. [nc-17]: The children younger than 17 shouldn't watch.
8. [Adult]: This rate is suitable for all adults.
**Audio**

- **Digital output**
  - SPDIF/OFF
  - SPDIF/Source code
  - SPDIF/PCM

- **Tune**
  - +4
  - +2
  - 0
  - -2
  - -4
  - 0

- **Image selection**
  - Reset
  - ON
  - OFF

- **Frequency spectrum**
  - Full
  - 6/8
  - 4/8
  - 2/8
  - OFF

**Note:**
Digital output
Activate audio output from SPDIF/OFF to SPDIF/PCM. SPDIF/PCM.

All analog and fiber signals SPDIF/PCM.

If the disc is burned with Dolby Digital, DTS or MPEG, the connected power amplifier must be integrated with Dolby Digital, DTS or MPEG decoding function.

Please select this option if this device is connected to 2-channel digital stereo power amplifier and the played disc is burned with Dolby Digital or MPEG. The analog or fiber output will be modulated to 2-channel output by PCM.

**Video**

- **Brightness**
  - 12
  - 10
  - 8
  - 6
  - 4
  - 2
  - 0

**Note:** Video setting is available only in TV/AV mode.

**20. Title**
In DVD/VCD playing mode, press TITLE to show all the titles on the screen. Press the direction buttons to select a desired track and press ENTER or play.

*Note:* 1. No title displays in MP3/CD mode.
  2. Press TITLE to select desired track or movie.

**21. Zoom**
In DVD/VCD playing mode, press ZOOM once to zoom in 2 times, zoom in 3 times for twice and zoom in 4 times for the third time.

*Note:* The zooming function is unavailable in CD/MP3 playing mode.
Specifications

General
Power supply: ........................................... 10.8-14.4 DC
Load resistance: ........................................... 4 ohm
Maximum power output: .................................... 60Wx4
Audio quality control: ...................................... +/-8dB (Bass 100Hz, treble 10KHz)
Weight: ......................................................... approx. 2.5kg
Size: ........................................................... approx. 202X178X50mm (LxWxH)
Installation size: .............................................. approx. 175X178X50mm (LxWxH)

DVD
Compatible disc: ........................................... DVD, VCD 2.0, MP3, MP4, (DIVX/CD/PICTURE-CD)
Image system: ................................................. AUTO/PAL/NTSC
Installation angle: ............................................ 0 to +/- 30 degree

Video
Video output: ................................................... 1.0 vp-p 75 ohm
Horizontal resolution: ...................................... 500PPI
Image system: .................................................. 16:9 mailbox / 16:9 plane scanning

Audio
Maximum output level: ..................................... 2Vrms (+/-3dB)
Frequency response: ........................................ 20 to 20 KHz
SNR: ........................................................... 85dB
Separation: ..................................................... 80dB

AM tuning
Frequency range: 522-1620 KHz (Europe/China), 530-1710 KHZ (America)
Intermediate frequency range: ........................... 450 KHz
Practical sensitivity: ......................................... 25dB

FM tuning
Frequency range: ........................................... 87.5-108 MHz (Europe/China), 87.5-107.9 MHz (America)
Intermediate frequency range: ........................... 10.7 MHz
Practical sensitivity: ......................................... 15dB
SNR: ........................................................... 60dB
Stereo separation: ............................................ 30dB (1MHz)
Frequency response: ....................................... 30-15 Mhz

NOTE: External GPS Module Optional
# Troubleshooting

<table>
<thead>
<tr>
<th>Failure</th>
<th>Reason</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power supplied</td>
<td>The wire isn't connected properly</td>
<td>Check whether the wire is connected properly</td>
</tr>
<tr>
<td></td>
<td>Fuse melted</td>
<td>Check whether the fuse is melted, and replace if yes</td>
</tr>
<tr>
<td></td>
<td>Internal processor doesn't due to noise or other reason</td>
<td>Press the Reset button to restore the default settings</td>
</tr>
<tr>
<td>Remote control is invalid</td>
<td>Battery capacity low</td>
<td>Replace a new battery</td>
</tr>
<tr>
<td>Can't play</td>
<td>The disc is dirty</td>
<td>Clean or replace a disc</td>
</tr>
<tr>
<td></td>
<td>Disc format isn't supported</td>
<td>Check the disc type</td>
</tr>
<tr>
<td>No sound</td>
<td>The end wire isn't connected properly</td>
<td>Connect the end wire properly</td>
</tr>
<tr>
<td>No image</td>
<td>The brake wire isn't grounded</td>
<td>Ground the brake wire</td>
</tr>
<tr>
<td>Can't play</td>
<td>Disc is bad or damaged</td>
<td>Replace high quality disc</td>
</tr>
<tr>
<td>Can't play, parent lock in</td>
<td>Parent lock is activated</td>
<td>Deactivate parent lock or change the rate setting</td>
</tr>
<tr>
<td>Can't change subtitle language</td>
<td>The DVD doesn't contain multiple languages</td>
<td>Replace a disc burned with multiple languages</td>
</tr>
<tr>
<td>No touch, defective</td>
<td>Operation disordered</td>
<td>When reading discUSB/SD card, press the menu, ZOOM, 1 and 1 key in sequence to have the Calibration cursor (small cross) and click the cross until &quot;OK&quot; to complete the calibration or turn off to reset</td>
</tr>
</tbody>
</table>
