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# 1 Important

## Safety

- Read and understand all instructions before you use the apparatus. If damage is caused by failure to follow instructions, the warranty does not apply.
- Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.
- The device is designed for negative ground (earth) 12V DC operation only.
- To reduce the risk of traffic accidents, do not watch video when driving.
- To ensure safe driving, adjust the volume to a safe and comfortable level.
- Improper fuses can cause damage or fire. When you need to change the fuse, consult a professional.
- Use only the supplied mounting hardware for a safe and secure installation.
- To avoid short circuits, do not expose the device, remote control or remote control batteries to rain or water.
- The apparatus shall not be exposed to dripping or splashing.
- Do not place any sources of danger on the apparatus (e.g. liquid filled objects, lighted candles).
- Never insert objects into the ventilation slots or other openings on the device.
- Never place any objects other than discs into the disc tray/slot.
- To avoid exposure to laser radiation, do not disassemble the device.
- Risk of damage to the screen! Never touch, push, rub or strike the screen with any object.
- Never use solvents such as benzene, thinner, cleaners available commercially, or anti-static sprays intended for discs.

- Clean the apparatus with soft, damp cloth. Never use substances such as alcohol, chemicals or household cleaners on the apparatus.

## Notice



**Be responsible  
Respect copyrights**

The making of unauthorized copies of copy-protected material, including computer programs, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offence. This equipment should not be used for such purposes.

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“Made for iPod” and “Made for iPhone” mean that an electronic accessory has been designed to connect specifically to iPod or iPhone respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance. iPod and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries.

**DIVX™**

**ABOUT DIVX VIDEO:** DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit [divx.com](http://divx.com) for more information and software tools to convert your files into DivX videos.

**ABOUT DIVX VIDEO-ON-DEMAND:** This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to [vod.divx.com](http://vod.divx.com) for more information on how to complete your registration.

DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.



Manufactured under license from Dolby Laboratories.

"Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Other trademarks and trade names are those of their respective owners.

**This apparatus includes this label:**



### Environmental information

All unnecessary packaging has been omitted. We have tried to make the packaging easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet.)

Your system consists of materials which can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

## Disposal of your old product and batteries

Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.

Never dispose of your product with other household waste. Please inform yourself about the local rules on the separate collection of electrical and electronic products and batteries. The correct disposal of these products helps prevent potentially negative consequences on the environment and human health.

Your product contains batteries, which cannot be disposed of with normal household waste. Please inform yourself about the local rules on separate collection of batteries. The correct disposal of batteries helps prevent potentially negative consequences on the environment and human health.

Please visit [www.recycle.philips.com](http://www.recycle.philips.com) for additional information on a recycling center in your area.

Any changes or modifications made to this device that are not expressly approved by Philips Consumer Lifestyle may void the user's authority to operate the equipment.

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## 2 Your in-car entertainment system

Congratulations on your purchase, and welcome to Philips! To fully benefit from the support that Philips offers, register your product at [www.philips.com/welcome](http://www.philips.com/welcome).

### Introduction

With the car entertainment system, you can

- Quickly found routine through the navigation system

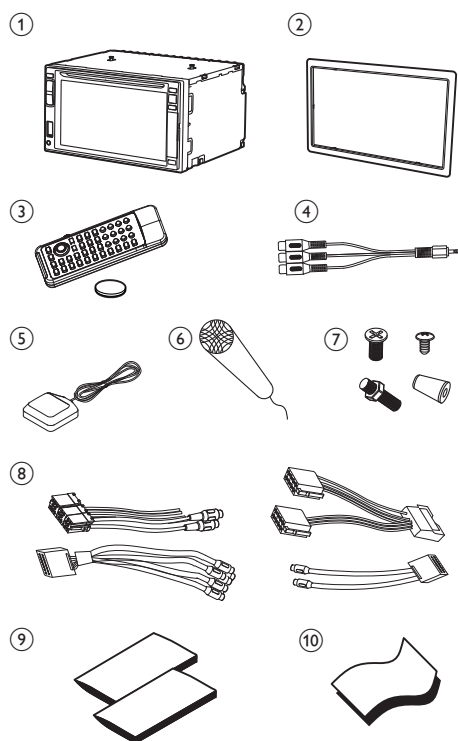
And you can also enjoy:

- Audio/video/JPEG pictures from
  - DVD, VCD or CD
  - USB devices
  - SD/SDHC/MMC cards
  - iPod/iPhone
  - External devices
- FM or AM (MW) radio
- Audio from Bluetooth-enabled devices

Besides, you can make/receive phone calls with Bluetooth-enabled devices.

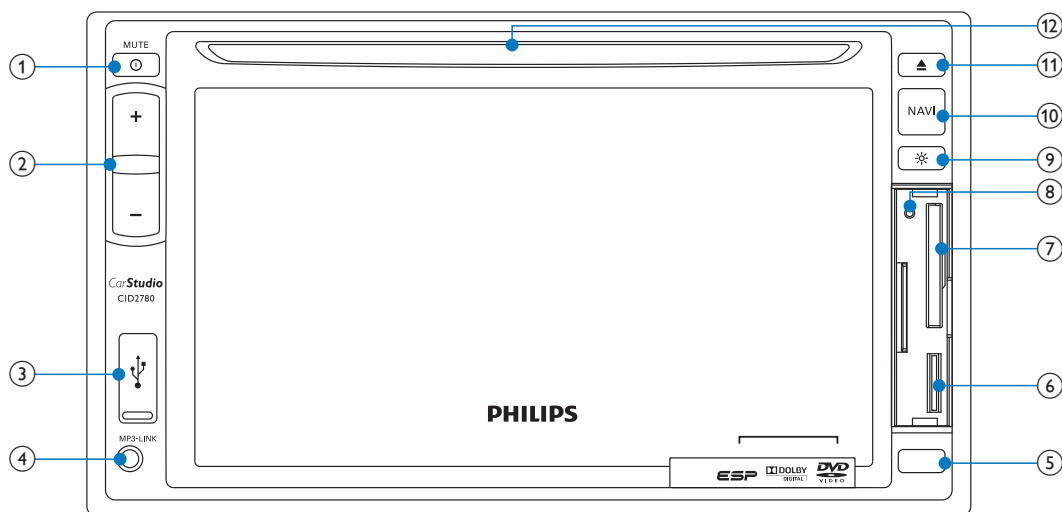
### What's in the box

Check and identify the contents of your package:



- ① Main unit
- ② Trim plate
- ③ Remote control
- ④ AV out cable
- ⑤ GPS antenna
- ⑥ Microphone
- ⑦ Screws
  - M5x6mm x 8 pcs
  - M5x7mm x 8 pcs
  - M5x15 x 1pc
  - Screw nut (4x25.4) x 1 pc
- ⑧ ISO connectors (x4)
- ⑨ Printed material (including the user manual and the quick start guide)
- ⑩ Screen cleaning cloth

## Overview of the main unit



### ① ① /MUTE

- Turn the unit on or off.
- Mute or unmute.

### ② VOL +/-

- Adjust volume.

### ③

- USB socket

### ④ AV IN

- External audio/video socket.

### ⑤ Remote control sensor

- Detects signals from the remote control. When using the remote control, point it directly at the IR sensor.

### ⑥ Map card slot

### ⑦ SD/SDHC/MMC card slot

### ⑧ RESET

- Reset the unit when it hangs up.

### ⑨

- Adjust display brightness.

### ⑩ NAVI

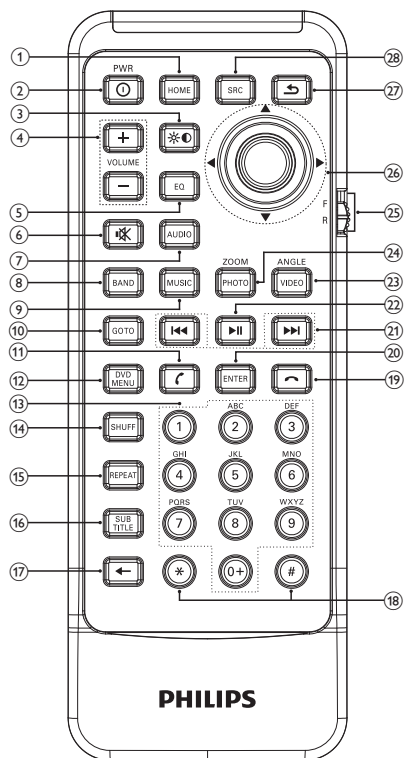
- Enter the GPS navigation system or exit.

### ⑪

- Eject disc.


### ⑫ Disc slot

## Overview of the remote control



- ① **HOME**
  - Toggles the home menu on or off.
- ② **① PWR**
  - Turn the unit on or off.
  - Adjust screen brightness.
  - Adjust screen brightness/contrast/saturation while playing video.
- ③ **VOLUME +/-**
  - Adjust volume.
- ④ **EQ**
  - Access audio setting menu.
- ⑤ **🔇**
  - Mute or unmute audio.

- ⑥ **AUDIO**
  - Select audio language or audio channel.
- ⑦ **BAND**
  - Select AM or FM band.
- ⑧ **MUSIC**
  - Switch to music playing mode.
- ⑨ **GOTO**
  - Select track/chapter.
- ⑩ **📞 (green)**
  - Answer phone.
  - Dial number.
- ⑪ **DVD MENU**
  - Return to DVD main menu.
- ⑫ **Numeric keypad**
- ⑬ **SHUFF**
  - Turn random play on or off.
- ⑭ **REPEAT**
  - Select repeat play mode.
- ⑮ **SUBTITLE**
  - Select DVD or DivX subtitle language.
- ⑯ **←**
  - Delete entered numbers/characters.
- ⑰ **#/ \***
  - Symbols for making phone call.
- ⑱ **📞 (red)**
  - Terminate call.
- ⑲ **ENTER**
  - Confirm the character/number inputs.
- ⑳ **⏮ / ⏭**
  - Skip to previous/next track/chapter.
  - Tune for radio station.
- ㉑ **⏮**
  - Start play or pause.
  - Confirm selection.
- ㉒ **VIDEO/ANGLE**
  - Select a difference angle/version of the current DVD scene.

- ②③ **PHOTO/ZOOM**
- Zoom in or out a picture/video image.
- ②④ **F/R**
- Switch to front/rear control mode.
- ②⑤ **Navigation buttons**
- ▲ / ▼
- Skip to the previous/next preset station.
  - Skip to the previous/next folder.
  - Search backward/forward for DVD video.
  - Move cursor up/down.
- ◀ / ▶
- Skip to the previous/next track.
  - Move cursor to left/right.
  - Press the navigation button down
  - Start play or pause.
  - Confirm selection.
- ②⑦ 
- Return to previous menu or exit.
- ②⑧ **SOURCE**
- Select source.

## 3 Get started



### Caution

- Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.

Always follow the instructions in this chapter in sequence.

## Install the car audio

These instructions are for a typical installation. However, if your car has different requirements, make the corresponding adjustment. If you have any questions regarding installation kits, consult your Philips car audio dealer.



### Caution

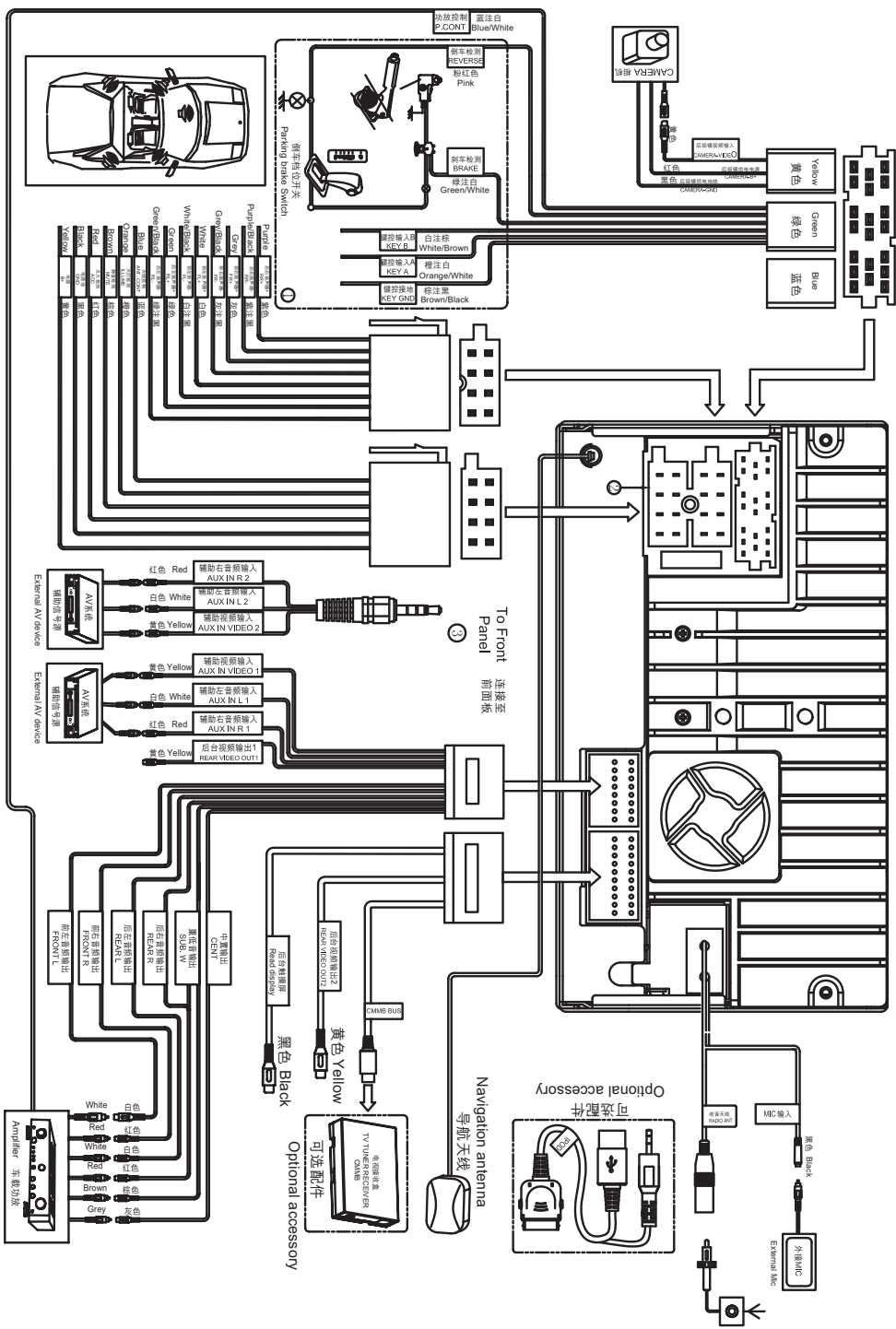
- This unit is designed for negative ground (earth) 12V DC operation only.
- Always install this unit in the car dashboard. Other locations can be dangerous as the rear of the unit heats up during use.
- To avoid short-circuit: before you connect, ensure that the ignition is off.
- Ensure that you connect the yellow and red power supply leads after all other leads are connected.
- Ensure that all loose leads are insulated with electrical tape.
- Ensure that the leads do not get caught under screws or in moving parts (e.g. seat rail).
- Ensure that all ground (earth) leads are connected to a common ground (earth) point.
- Use only the supplied mounting hardware for a safe and secure installation.
- Improper fuses can cause damage or fire. When you need to change the fuse, consult a professional.

## Connect wires

Check the car's wiring carefully, then make the connections as illustrated.

Wiring Diagram

Remark: ③ Here connect the external AV device to the AV IN socket on the front panel of the car audio system. 备注: ③ 此处AV IN线与前面板AV IN接口相接



### Notes on speaker connection

- Never connect speaker wires to the metal body or chassis of the car.
- Never connect speaker wires with stripes to one another.

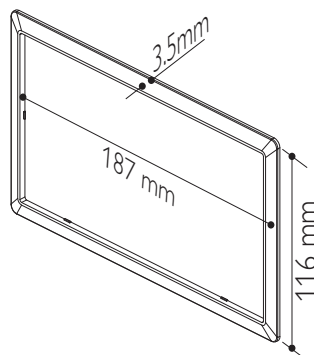
### Note on the power supply lead (yellow)

- When you connect other devices to this system, ensure that the rating of the car circuit is higher than the total fuse value of all the connected devices.

### Notes on rear camera connection

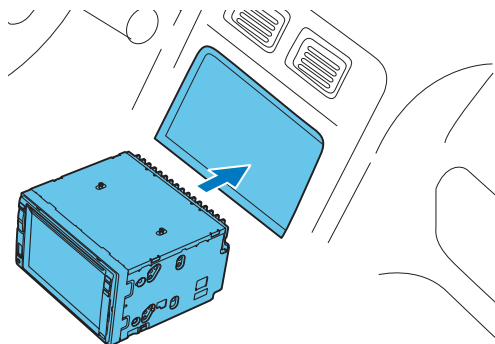
- Check your local driving regulations on whether it is legally required to install a rear view camera. These connections require a professional mechanic to install.
- You can connect a rear view camera to this car audio video system, so as to view the things that happens behind your car through the screen on the system. This helps protecting your bumper and anything it might contact, especially you are driving a big vehicle.

- 2 Ensure that the car dashboard opening is within these measurements:



- Since the unit cannot be used if the dashboard opening's slant angle is above 20 degrees: ensure that the horizontal slant of the car dashboard opening is between 0 and 20 degrees.

- 3 Slide the unit into the dashboard, until a click sound is heard.



## Mount in the dashboard

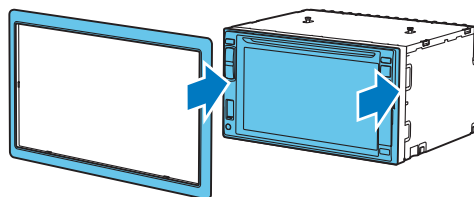


### Note

- Check wire connection before you mount the unit into a car.
- If preset radio stations are lost when the ignition key is turned off and then back on, reconnect the red leads crosswise to the yellow ones.

- 1 If the car does not have an on-board drive or navigation computer, disconnect the negative terminal of the car battery.
  - If you disconnect the car battery in a car that has an on-board drive or navigation computer, the computer may lose its memory.
  - If the car battery is not disconnected, to avoid a short-circuit, ensure that bare wires do not touch each other.

- 4 Attach the trim plate.



- 5 Reconnect the negative terminal of the car battery.

## Install remote control battery



### Caution

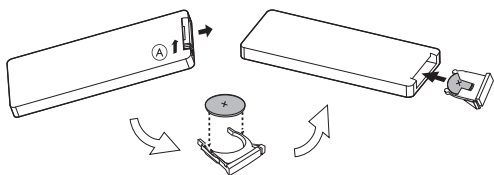
- Risk of explosion! Keep battery away from heat, sunshine or fire. Never discard battery in fire.



### Note

- Remove battery if it is flat or if the remote control will not be used for a long time.
- Battery contain chemical substances. It should be disposed of properly.

- 1 Open the battery compartment.




- 2 Insert one CR2025 battery with correct polarity (+/-) as indicated.
- 3 Close the battery compartment.

## Turn on



### Caution


- Risk of road accidents! Never watch video or adjust settings while you drive.

- 1 Press  to turn on the unit.  
↳ Calibration request s displayed.



- 2 Tap **YES** and follow the on-screen display to complete calibration.
- 3 Tap anywhere on the screen to save.  
↳ The available OSD (On-Screen Display) languages are displayed.



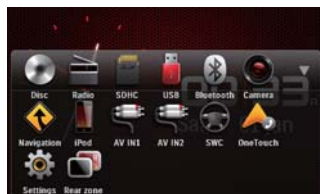
- 4 Tap a language.  
↳ The OSD language is changed to the selected language immediately.
- To turn off the unit, press .


## Set date and time

- 1 Tap  to display main menu.




- 2 Tap  to display the full menu.




- 3 Tap .  
↳ The setup menu is displayed.



- 4 Tap .
- ↳ The date/time setup menu is displayed.



- 5 Tap on [Date], [Clock mode] or [Time].
- 6 Tap ▲ or ▼ to set date/time.
- 7 When date/time is set, tap  to return to main menu.

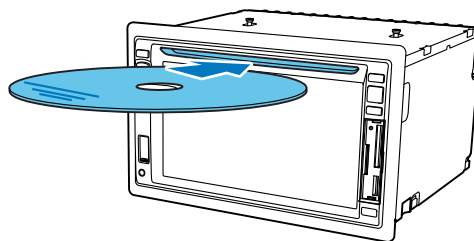
## 4 Play audio/video/picture

### Load discs

You can play video, audio or images stored on the following discs:

- DVD video, DVD-R, DVD-RW
- VCD
- Audio CD, CD-R, CD-RW

- 1 Insert the disc into the disc slot with label side facing up.
- ↳ The disc starts playing automatically.



- 2 To remove the disc, press the ▲ button.
- ↳ When the disc is ejected, the unit switches to the previous source, if connected. Otherwise, the unit switches to [Radio] mode automatically.



#### Note

- Supported region code depends on where you bought the car audio system.

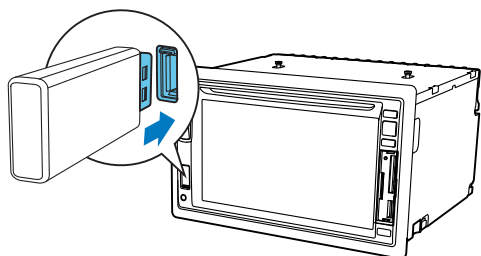
Countries where you bought the unit	Supported DVD region code
China	

## Connect USB device

### Note

- Ensure that the device contains playable content.
- For detail information on supported video format, see "Product Information" chapter.

- 1 Pull the USB flap up.
- 2 Insert the USB device into the USB slot .  
↳ The files play automatically.



- 3 To remove the USB device, switch the car audio system to other source first, then take off the USB device.  
↳ When USB device is disconnected, it plays the previous source.

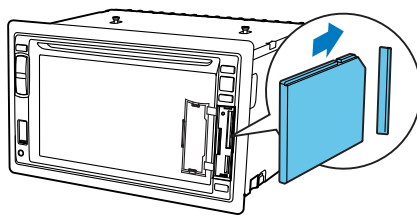
## Insert SD/MMC card

### Note

- This device supports Secure Digital High Capacity (SDHC) card.

- 1 Open the USB/SD/MMC card flap.

- 2 Insert the SD/MMC card into the SD/MMC card slot.  
↳ Play starts automatically.



## Remove the SD/MMC card

- 1 Switch to another source.
- 2 Press the card until you hear a click sound.  
↳ The card is now disengaged.
- 3 Remove the SD or MMC card.

## Play/Pause





- 1 Once a disc, USB or SD/MMC card is inserted, play starts automatically.



- For DVD movie, if a menu appears, press ► to start play.
- 2 To pause, tap **||**.  
• To resume play, tap **||** again.
  - 3 To skip forward/backward, tap **▶▶** or **◀◀**.
  - 4 To fast forward/backward, tap and hold **▶▶** or **◀◀**.

## Browse

During play from USB device or SD card, you can browse through the listed audio, video or picture files to select preferred file.

- 1 Tap  to return to playlist menu.
- 2 Tap one of the icons below to select folder/file:
  -  : To display all available audio folders/track.
  -  : To display all available video folders/files.
  -  : To display all available picture folders/files.



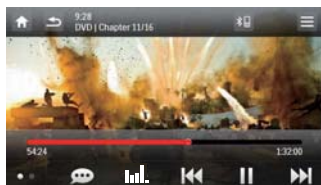
- 3 Swipe your finger upward/downward to browse through the list.
- 4 Tap on the name to start play.


## Video options

### Select audio language

For video discs that contain two or more audio languages.

- 1 During play, tap anywhere except for the upper left corner to display the menu on the screen.



- 2 Tap  repeatedly to select audio language.
  - ↳ The audio channel information is displayed on the upper line of the screen.




#### Tip


- You can also press **AUDIO** on the remote control repeatedly to change audio language.

### Select subtitle language

For DVD or DivX discs that contain two or more subtitle languages.

- 1 During play, tap anywhere except for the upper left corner to display the menu on the screen.
- 2 Tap  to display the 2nd menu





- 3 Tap  repeatedly to select a language.
  - ↳ The selected language is displayed.

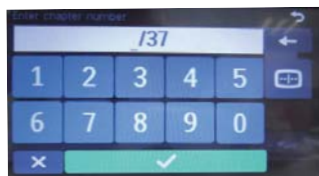






#### Tip

- You may also press **SUBTITLE** on the remote control repeatedly to select subtitle language.

### Skip to a chapter/title/time



- 1 During play, tap anywhere except for the upper left corner to display the menu on the screen.
- 2 Tap  to display the 2nd menu
- 3 Tap 
  - ↳ The search screen is displayed.



- 4 Tap  repeatedly to select:
  - **[Enter chapter number:]**
  - **[Enter title number:]**
  - **[Enter time:]**
- 5 Tap the numbers, then tap .
  - To clear the previous input, tap .
  - To clear all input, tap .

## Repeat a section




You can repeat a specific section of the video file.

- 1 During play, tap anywhere except for the upper left corner to display menu on the screen.
- 2 Tap   to display the 2nd menu.
- 3 Tap **A⇌B** repeatedly to mark:
  - **[Repeat A-]**: the start of the section to repeat.
  - **[Repeat A-B]**: the end of the section to repeat.

↳ The selected section plays repeatedly.
- 4 To exit A-B repeat mode, tap **A⇌B** repeatedly until **[Repeat A-B off]** is displayed.

## Repeat one/all chapter

For DVD/VCD movie disc:

- 1 Tap anywhere except for the upper left corner to display the menu on the screen.
- 2 Tap   to display the second menu.
- 3 Tap  to select:
  - **[Repeat chapter:]**: play the current chapter repeatedly.
  - **[Repeat title:]**: play all chapters in the title repeatedly.
  - **[Repeat off]**: cancel repeat play.

For VCD karaoke:

Tap  to select:

- **[Repeat one]**: play the current track repeatedly.
- **[Repeat off]**: cancel repeat play.



Tip

- You can also press **REPEAT** on the remote control to select repeated play mode.

## Change view angle




Some DVDs contain alternate scenes, such as scenes recorded from different camera angles. For such DVDs, you can select available alternate scenes.

Press **VIDEOANGLE** repeatedly on the remote control.

↳ The view angle is changed.

## Use the disc menu

When you load a DVD/(S)VCD disc, a menu is displayed on the screen.

- 1 Tap 'play' to start playback.
- 2 During play, you can tap   >  to display the disc menu.


## Select audio mode

When you play VCDs, you can select an audio mode (R/L/Stereo).

During play, press **AUDIO** on the remote control repeatedly until preferred audio mode is selected.

## Audio options

### Select a track

- 1 Tap 




↳ The search screen is displayed.



- 2 Tap the numbers to enter track number, then tap **OK**.
  - To clear the previous input, tap **←**.
  - To clear all input, tap **X**.

## Random play

You can play audio tracks/files in random order.

- 1 During play, tap  repeatedly to turn random play on or off.
  -  (red) : start random play.
  -  (gray): cancel random play.





Tip

- You can also press **SHUFF** on the remote control to select random play mode.

## Repeat one/all

Tap  repeatedly to select:


-  (red): play the current track repeatedly.
-  (gray) : cancel repeat play.



Tip

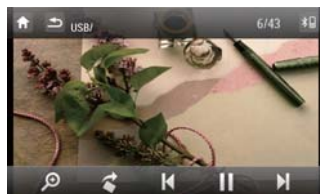
- You can also press **REPEAT** on the remote control to select repeated play mode.

## View photo

- 1 Tap .
  - ↳ Thumbnail view of the pictures is displayed.




- 2 Drag the bar downward to view all pictures.
- 3 Tap on a picture to view it in full screen.



## Zoom

You can zoom in pictures for a close view.


- 1 During view pictures, tap anywhere except for the upper left corner to display menu on the screen.
- 2 Tap  repeatedly to zoom in/out the picture.



Tip

- To zoom in/out video image, press **PHOTOZOOM** on the remote control.

## Rotate pictures

- 1 When you view pictures, tap anywhere except for the upper left corner to display menu on the screen.
- 2 Tap  repeatedly to rotate the picture.

## 5 Listen to radio

### Tune to a radio station

- 1 Tap to display home menu.
- 2 Tap .  
↳ Band and frequency information is displayed.



- 3 Tap **FM** or **AM** to select band:
  - FM band options: **FM1, FM2, FM3**
  - AM band options: **AM1, AM2**
- 4 Briefly tap **<** or **>** to tune to a radio station by step.
  - Tap **<** or **>** for over 1 second to tune to a radio station automatically.

### Tune by frequency

- 1 Tap **FM** or **AM** to select band.
- 2 Tap .
- 3 Tap **[Goto]**.
- 4 Tap the numbers to enter frequency.



- Tap to clear the last entered number.

- Tap **X** to clear all the entered numbers.

- 5 Tap **OK** to confirm.  
↳ The radio station is broadcast.

### Select radio range

Before you start to search for radio stations, you can select radio range.

- 1 Tap to toggle tuner sensitivity from normal to high sensitivity.
  - (red): Only stations with strong signals can be broadcast.
  - (gray): Stations with strong and weak signals can be broadcast.

### Turn stereo broadcasting on/off

At FM band, if the radio broadcasting is stereo, you can switch it to mono broadcasting.

- 1 Tap repeatedly to select.
  - (red): for stereo broadcasting.
  - (gray): for mono broadcasting.

## Store radio stations in memory

You can store up to 6 stations in each band.


### Store stations manually

- 1 Tune to the station by tapping **<** or **>**.
- 2 Tap .
- 3 Tap **[Save]**.
- 4 Tap one of the channels **01** to **06** to save the select band.



## Store stations automatically

You can search for a station with intro search, which broadcasts a 10-second preview of each detected radio station.

- 1 Select band.
- 2 Tap .
- 3 Tap [Search].
  - ↳ Auto search starts. The six strongest stations of the selected band are saved in preset channels 1-6 automatically.

## Tune to a preset station

- 1 Select band.
- 2 Tap one of the preset channels (01 to 06) to select a preset station.



# 6 Use navigation system

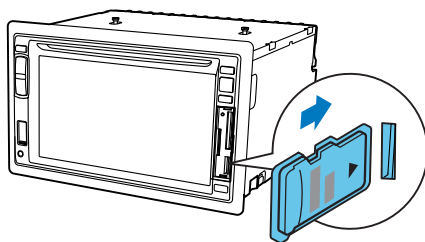
## Insert map card



### Note

- Navigation map card is not included in the packaging of the car entertainment system.

- 1 Open the card door.
- 2 Insert the map card into the map card slot.




- 3 Close the card door.

## Use map



### Note



- You might need to upgrade the navigation map (sold separately) before using it. See "Upgrade the map" section

- 1 Tap the upper left corner to display main menu.
- 2 Tap .
  - ↳ The navigation menu is displayed in a few seconds.
- 3 Refer to the user manual of the navigation map to operate the navigation tool.

---

## Use one-touch navigation service (Optional)

If you use Careland GPS service and your phone is connected to the car audio system via Bluetooth, you can connect to Careland call center for navigation guide at one touch.

- 1 Call 400-886-9545 to register your phone number.
- 2 Pair your mobile phone with the car audio system (see the section "Pair the Bluetooth-enabled devices" for details).
- 3 Tap  to display main menu.
- 4 Tap  (Dual-Tone-Multi-Frequency).
  - ↳ The call center is connected. If the connection is failed, follow the onscreen display to check connection.



- 5 Tell the receptionist where you want to go.
  - ↳ Navigation routine data will be transferred to your navigation system and your car audio will switch to navigation mode automatically.

---

## Upgrade the map

- 1 Exit navigation system.
- 2 Open the card cover.
- 3 Press on the map card until you hear a click sound.
- 4 Pull out the map card and bring it to the authorized service center for upgrade.
- 5 Insert the upgraded map card back into the card slot.
- 6 Turn on the car audio.
  - ↳ The map upgrades in a few minutes.

# 7 Play with Bluetooth device

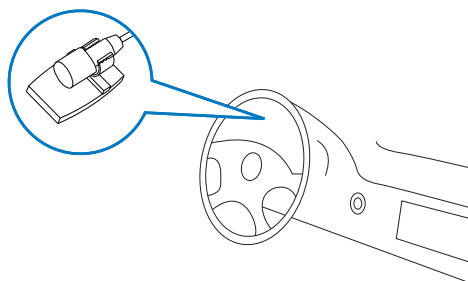
You can make or receive phone calls with Bluetooth-enabled phones through the unit. You can also listen to music from a Bluetooth-enabled device.

---

## Adjust microphone position

For better sound quality in make/receive phone call through Bluetooth, place the microphone near the mouth.

- 1 Make sure the supplied microphone is connected to the car audio system. (See "Connect wires" section).
- 2 Place the microphone at a proper location. For example,
  - Stick it onto the dashboard.



- Or, clip it on the sun-shield.

---

## Pair the Bluetooth-enabled devices

To connect your Bluetooth device to the unit, you need to pair the device to the unit. Pairing needs only to be done once. You can pair up to eight devices.

## Note

- The operational range between this unit and a Bluetooth device is approximately 10 meters (30 feet). Turn on the Bluetooth function on the device.
- Before you connect a Bluetooth device to this unit, familiarize yourself with the Bluetooth capabilities of the device.
- Compatibility with all Bluetooth devices is not guaranteed.
- Any obstacle between this unit and a Bluetooth device can reduce the operational range.
- Keep this unit away from any other electronic device that may cause interference.

- 3 Search for Bluetooth device with the device.
- 4 Select "CID2780" in the pairing list.
- 5 Enter default password "0000".  
↳ If the pairing succeeds, the phone call record is displayed.



## Disconnect Bluetooth devices

The device will also be disconnected when the device is moved beyond the operational range. If you want to reconnect the device to the unit, place it within the operational range.

## Tip

- If you do not want to reconnect the device to the unit automatically, tap > [Auto connect], then select [Off]. For details, see the "Adjust Bluetooth settings" section.

## Make a call

- 1 Pair the phone with the unit.

- 2 Tap to display the home menu.
- 3 Tap .  
↳ List of available Bluetooth devices is displayed.



- 4 Tap on the name of your mobile phone.  
↳ The Bluetooth menu is displayed.





- 5 Tap , , or to select a phone number.
  - : List of recent contacts including [Missed calls], [Received calls] and [Dialed calls].
  - : Favorite contacts.
  - : Phone book.
- 6 Tap on a phone number from the list.  
↳ Phone calling starts.



- You can also tap to dial number directly, then tap to start calling.



- If connection failed, tap to re-dial .
- 7 When conversation ends, tap .

## Receive call


By default, all incoming calls are received automatically.

### Note


- You can select to receive calls manually by set **[Auto answer]** to **[Off]** status. For details, refer to "Adjust Bluetooth settings".

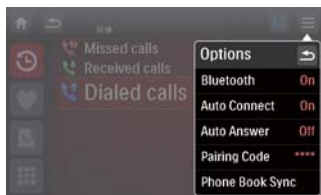
- 1 If there is an incoming call, **[Incoming call...]** flashes on the screen.



- 2 Speak into the microphone.
- 3 When conversation ends, tap  to terminate the call.

## Adjust Bluetooth settings

- 1 In the Bluetooth menu, tap .  
↳ The option menu is displayed.



- **[Bluetooth]**: to turn the "Bluetooth" function on or off.
- **[Auto connect]**: to turn the "Auto connect" function on or off.

- **[Auto answer]**: to turn the "Auto answer" function on or off.
- **[Pairing code]**: to set pairing code
- **[Phone Book Sync]**: to synchronize phone book





- 2 Tap an option to change the setting.

### Tip

- You can also adjust Bluetooth settings in the "Settings" menu.

## Listen to music from Bluetooth device

If the connected Bluetooth device supports Advanced Audio Distribution Profile (A2DP), you can listen to the music stored on the device through the unit. If the device also supports Audio Video Remote Control Profile (AVRCP) profile, you can use the control on the unit or its remote control to play music stored on the device.

- 1 Pair the phone with the unit.
- 2 Tap  to return to home menu.
- 3 Tap .
- 4 tap .
- 5 Tap  to start play.



## 8 Play iPod

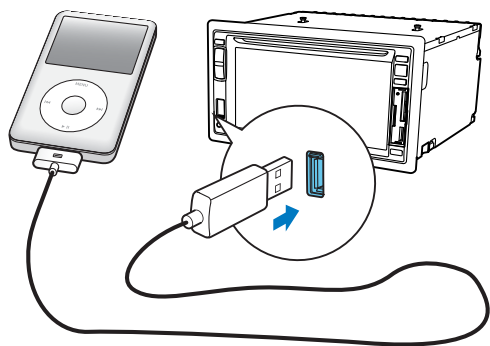
### Compatible iPod/iPhone

The car audio system supports below iPod and iPhone models:

Made for:

- iPod touch (1st, 2nd, 3rd and 4th generation)
- iPod classic
- iPod nano (1st, 2nd, 3rd, 4th, 5th and 6th generation)
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone

### Listen to the iPod/iPhone



- 1 Connect your iPod/iPhone to the front USB socket via Apple's own 30pin USB cable.  
↳ Music playback starts.



- 2 To pause, tap **II**.
- 3 To skip backward/forward, tap **⏮**/**⏭**.
- 4 To search for a track, tap **↺**.  
↳ Tracks sorted by genre is displayed.



- 5 Select a folder and then swipe finger upward/downward to search for preferred tracks.

### Charge the iPod/iPhone

When the iPod/iPhone is connected to the car audio system, the iPod/iPhone begins to charge.



Tip

- For certain iPod models, it may take up to a minute before the charging indication is displayed.

## 9 Adjust sound

### Adjust volume

- 1 Press to increase volume.
- Press to reduce volume.

### Mute

- 1 During play, press .
- 2 To turn the sound back on, press again.

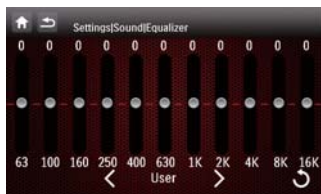


Tip

- You can tap on the screen to turn sound on/off.

### Select preset equalizer

- 1 Tap .  
↳ The current equalizer setting is displayed.



- 2 Tap or to select an preset EQ:
  - [User]
  - [Techno]
  - [Rock]
  - [Classic]
  - [Jazz]
  - [Optimal]
  - [Flat]
  - [Pop]

- 3 Adjust EQ settings by tapping on the screen.
- 4 If you are not satisfied with the adjusted sound settings, tap to restore default settings.
- 5 Tap to exit.

### Turn FullSound on/off

Philips FullSound restores the audio details that is lost in music compression. It enriches the music signal, so what you hear is the full sound with every nuance of emotion and every detail of musical genius. Philips FullSound can:

- Bring CD listening experience to MP3
- Achieve fuller bass with greater depth and impact
- Restore sense of spaciousness that is lacking in compressed audio
- Enhance sound precision and detail

- 1 During play, tap .  
↳ The FullSound icon changes to red ( ).  
↳ FullSound is activated.
- 2 To turn FullSound off, tap the icon until it changes to gray ( ).

### Turn DBB on/off

When DBB (Dynamic Bass Boost) is activated, low tones will be enhanced electronically.

Tap to toggle between the settings.

- [DBB] on: the icon turns red ( ).
- [DBB] off: the icon turns gray ( ).

# 10 Adjust settings

## Display system setup menu

- 1 Tap > to display the full menu.



- 2 Tap .  
↳ The settings menu is displayed.

## Adjust general settings

- 1 Tap .



- 2 Swipe finger upward/downward to highlight a setting.
- 3 Tap on it repeatedly or tap or to select an option.  
↳ The setting is changed.

General settings	Options	Description
[Radio region]	[USA], [China], [Japan], [Europe], [Europe] (LW), [OIRT]	Select one that matches your location.
[Radio range]	[Local]	Only stations with strong signals can be broadcast.

	[Distance]	Stations with strong and weak signals can be broadcast.
[Black-out]	[off]	Never turn on the screen saver.
	[10s]	Turn on the screen saver automatically 10 seconds after last operation.
	[20s]	Turn on the screen saver automatically 20 seconds after last operation.
[Dimmer Mode]	[Night]	Select this mode at night.
	[Dark]	Select this mode at dusk.
	[Normal]	Set screen dimmer to normal mode.
	[Bright]	Select this mode in bright environment.
[Key color]	[Red]	Button backlight turns red.
	[Blue]	Button backlight turns blue.
[Beep]	[On]	Turn on the beep sound. Each time you press a button, the unit beeps.
	[Off]	Turn off the beep sound.
[Wall-Paper]	[WallPaper]1/2/3	Select a wall paper
[Calibration]		Calibrate the touch screen.

## Adjust sound settings

- 1 Tap .





- 2 Swipe finger upward/downward to highlight a setting.
- 3 Tap on it repeatedly to change setting.


Sound settings	Options	Description
[Sub woofer]	[On]	Turn the subwoofer on.
	[Off]	Turn the subwoofer off.
[Sub woofer filter]	[80Hz] / [120Hz] / [160Hz]	Select subwoofer filter criteria.
[DBB] (Dynamic Bass Boost)	[On]	Turn on DBB to enhance low tones.
	[Off]	The DBB function is off.
[DRC] (Dynamic Range Control)	[On]	Make loud sound level softer and soft sound level louder so that you can watch the DVD movies at a low volume, without disturbing others
	[Off]	The DRC function is off.
[Auto Calibration]	[On]	This is for auto calibration and auto optimization of the speakers and microphone. Follow on-screen instruction to complete the setting.
[Listening Zone]	[On]	Select listening areas.

## Select listening zone

Philips' innovative Zone technology enables driver or passengers to enjoy music with the best speakers balance and experience more vivid spacial effect as the artist is intended to create. You can switch the music listening zone from driver to passengers for the best speaker sound settings in car.

- 1 Tap  (Settings) >  (Sound).
- 2 Swipe finger upward to find [Listening Zone] and tap on it.  
↳ The listening zone screen is displayed.



- 3 Tap on the seat to select an area.  
↳ Sound effect changed.
- 4 Tap  to exit.

## Adjust video settings

- 1 Tap .



- 2 Tap on a setting repeatedly or tap ▲ or ▼ to change setting.

Video settings	Options	Description
[Aspect ratio]	[Full]	For wide screen display.
	[Normal]	For normal display.

[Video input]	[Auto]	The correct format is set automatically. Select this option if you are not sure which format should be selected.
	[NTSC]	Used in the United States, Canada, Japan, Mexico, the Philippines, South Korea, Taiwan, and some other countries.
	[PAL]	Used in China, India, Singapore, the western European countries (except France), Australia, and some other countries.
[Parking]	[On]	Disable video view when driving.
	[Off]	Enable video view during drive.
[DivX registration code]		View code for DivX registration.
[DivX Deactivation]		To deactivate the device for DivX playback.

## Adjust Bluetooth settings

1 Tap .



2 Tap on a setting repeatedly to change setting.

Bluetooth settings	Options	Description
[Bluetooth]	[On]	Turn the Bluetooth function on.
	[Off]	Turn the Bluetooth function off.
[Auto connect]	[On]	If the pre-paired device is within effective range, the system re-connects to pre-paired device automatically.
	[Off]	Need to re-connect manually.
[Auto answer]	[On]	Answer paired phone call automatically.
	[Off]	Answer phone call manually.
[Pairing code]		Set code for pairing the car entertainment system with other Bluetooth devices. The default code is 0000.

## Adjust volume settings

You can set different volume for different modes.

1 Tap .

- The volume setting sub-menu is displayed.



- 2 Swipe finger upward/downward to highlight a setting.
- 3 Tap on a source, then tap ▲ or ▼ to assign value: 0 to 12.
  - When switches to the source, the volume increases automatically.

## Adjust language settings

- 1 Tap .



- 2 Tap on a setting, then tap ▲ or ▼ to select an option.

Language settings	Options	Description
[OSD]	[English]	Select on-screen-display language.
	[简体中文]	
	[繁体中文]	
[DVD audio]	[English]	Select DVD audio language. Options available depends on the DVD.
	[简体中文]	
	[繁体中文]	

[DVD subtitle]	[English]	Select DVD subtitle language. Options available depends on the DVD.
	[简体中文]	
	[繁体中文]	
[Disc menu]	[Off]	Turn off subtitle language display.
	[English]	Select DVD menu language. Options available depends on the DVD.
	[简体中文]	
	[繁体中文]	

## Adjust DVD rating

- 1 Tap .



- 2 Tap a a setting to make an adjustment.

DVD rating	Options	Description
[Set password]		Set password to restrict access. The default password is 0000.
	[Kid safe]	Acceptable for children.
	[G]	Acceptable for general viewers.
[Rating level]	[PG]	Parental guidance suggested.
	[PG-13]	Unsuitable for children under age 13.

	[PG-R]	Parental guidance is advised for children under 17.
	[R]	Restricted. Shouldn't be viewed by children under 17 without parental consent.
	[NC-17]	Unsuitable for children under age 17.
	[Adult]	Acceptable for adults only.
[DVD 5.1 Channel]	[On]	Turn on DVD 5.1 channel.
	[Off]	Disable DVD 5.1 channel.
[Load factory]		Restore to default settings.

## Restrict access

You can restrict disc access to children or play alternate scenes. Once you selected an access level, discs with higher levels cannot be played.

- 1 Tap > .
- 2 Tap **[Set password]**.  
↳ Password setup menu is displayed.
- 3 Enter default password (0000) first, then enter new password and tap .
- 4 Tap **[Rating level]** and or .
- 5 Tap on an option.  
↳ The rating level is changed.



### Note

- The ratings are country-dependent. To allow all discs to play, select '8'.
- Some discs have ratings printed on them but are not recorded with ratings. This function has no effect on such discs.

# 11 Others

## Adjust brightness

- 1 To adjust screen brightness, press button repeatedly.



### Tip

- You can also use the / button and or button on the remote control to adjust screen brightness.

## Set rear view camera

If you connected a rear view camera, you can see from the screen of the car audio system what the camera takes when the back lamp lights up.

- 1 Tap .
- 2 Tap .
- ↳ Picture from rear camera is displayed.

## Allocate Steering Wheel Control

To activate the control buttons on the steering wheel, you need to complete the following settings:

- 1 Tap .
- 2 Tap .
- ↳ A new window is displayed.



- 3 Tap ▲ or ▼ to allocate key function.
- 4 Tap .
  - ↳ You are requested to press the matching button on the steering wheel for one second.
- 5 Follow the instructions as shown on the screen.
- 6 Repeat steps above to allocate other buttons.

## Play from rear displays

If there is a display installed for passengers on rear seat, you can select a source for rear display. That is, passengers are not necessarily to watch or listen to same source.

- 1 Make sure that your in-car system is connected to rear display correctly.
- 2 While playing, tap > to display full menu.



- 3 Tap [Rear zone].
  - ↳ The rear zone options are displayed.

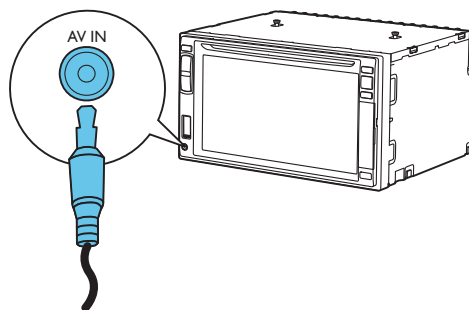


- 4 Tap on a source.
  - ↳ The selected source plays after a few seconds. The passengers can use headphones for listening.

## Listen to other devices

You can connect an external audio/video device to the car audio system.

- 1 Connect the car audio to the device with the supplied AV cable.



- 2 Tap to display the main menu.
- 3 Tap [AV-IN1].
- 4 Operate the connected the device (see the device's instructions manual).



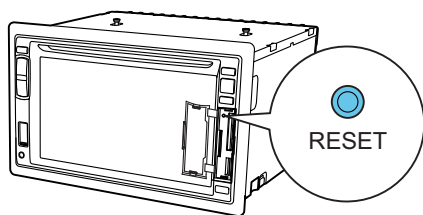
### Tip

- If you connect the system to other audio devices through the **REAR OUT L/R** connector (see "Wiring Diagram" section), tap [AV-IN2] to listen to that device.

## Reset

When the unit hangs up, you can reset it.

- 1 Press **RESET** with a ball-point pen or similar tool.



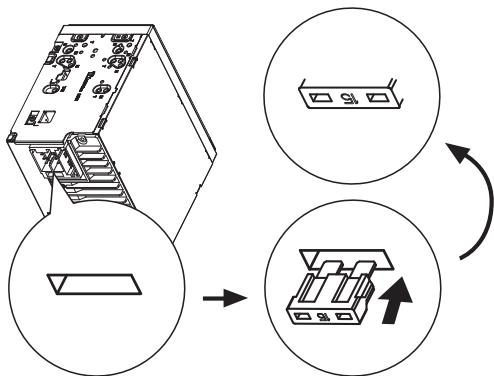
### Tip

- When the unit is reset, all the settings remain unchanged.

## Replace fuse

If there is no power, the fuse may be damaged and need to be replaced.

- 1 Take out the unit from dashboard.
- 2 Check the electric connection.
- 3 Buy a fuse that matches the voltage of the damaged fuse (15A)
- 4 Replace the fuse.



If the fuse breaks immediately after it has been replaced, there may be an internal malfunction. In this case, consult your Philips dealer.

# 12 Product information



### Note

- Product information is subject to change without prior notice.

## General

Power supply	12 V DC (11 V - 16 V), negative ground
Fuse	15 A
Suitable speaker impedance	4 - 8 $\Omega$
Maximum power output	50 W x 4 channels
Continuous power output	24 W x 4 channels (4 $\Omega$ 10% T.H.D.)
Pre-Amp output voltage	2.0 V ( CD play mode; 1 kHz, 0 dB, 10 k $\Omega$ load)
Subwoofer output voltage	2.0 V (CD play mode, 61 Hz, 0 dB, 10 k $\Omega$ load)
Aux-in level	$\geq$ 500 mV
Dimensions (W x H x D)	178 x 101 x 160 mm
Weight (main unit)	2.5 kg
Operating temperature range	-20°C to 70 °C

## Disc player

System	DVD / CD audio / MP3 system
Frequency response	20 Hz - 20k Hz
Signal/noise ratio	>75dB
Total harmonic distortion	Less than 1%
Channel separation	>55dB

Video signal format	NTSC only
Video output	1 +/- 0.2V

## Radio

Frequency range - FM	87.5 - 108.0 MHz (100 kHz per step)
Frequency range - AM(MW)	522 - 1620 KHz (9kHz per step)
Usable sensitivity - FM	5 uV
Usable sensitivity - AM (MW)	25 uV

## LCD

Screen size	6.2 inches
Display resolution	800 x 480 dots
Contrast ratio	300
Brightness	350 cd/m2

## Bluetooth

Communication system	Bluetooth Standard version 2.0
Output	Bluetooth Standard Power Class 2
Maximum communication range	Line of sight approx. 8m
Frequency band	2.4 GHz band (2.4000 GHz - 2.4835 GHz)
Compatible Bluetooth profiles	Hands-Free Profile (HFP) Handset Profile (HSP) Advanced Audio Distribution Profile (A2DP) Audio Video Remote Control Profile (AVRCP)
Supported codecs	
Receive	SBC (Sub Band Codec)
Transmit	SBC (Sub Band Codec)

## Supported video formats

**File extension:** .avi, .mp4

**Compatible Video Codec:**

- **.avi:** MPEG-4 SP/ASP; H.263, H.264; XVID , DIVX 4/5/6
- **.mp4:** MPEG-4 SP/ASP; H.263, H.264;

**Compatible Audio Codec:**

- **.avi:** MPEG-1 Layer 1, 2, 3; AC-3 (Downmix), WMA Pro (stereo); WMA 9 Standard
- **.mp4:** MPEG-4 AAC LC; MPEG-4 AAC HE V1/V2

**Recommended Video Specification:**

- **MPEG-4 SP/ASP:** ISO/IEC 14496-2 simple/advanced simple profile 640X480@30fps
- **H.263:** ISO/IEC 14496-2 simple profile 640X480@30fps
- **H.264:** ITU-T Rec. H.264 baseline profile, main profile, high profile 640X480@30fps
- **XVID , DIVX 4/5/6:** ISO/IEC 14496-2 simple/advanced simple profile 640X480@30fps

**Maximum Bit rate (Only video play):**

- **MPEG-4 SP/ASP:** 4Mbps
- **H.263:** 1.5Mbps
- **H.264:** 4Mbps
- **XVID , DIVX 4/5/6:** 2Mbps

## USB playability information

**Compatible USB devices:**

- USB flash memory (USB 2.0 or USB1.1)
- USB flash players (USB 2.0 or USB1.1)
- Memory cards (SD / MMC / SDHC)

**Supported USB formats:**

- USB or memory file format: FAT16, FAT32
- MP3 bit rate (data rate): 32-320 Kbps and variable bit rate
- WMA v9 or earlier
- Directory nesting up to a maximum of 8 levels

- Number of albums/folders: maximum 99
- Number of tracks/titles: maximum 999
- ID3 tag v2.0 or later
- File name in Unicode UTF8 (maximum length: 128 bytes)

## Supported MP3 disc format

- ISO9660, Joliet
- Maximum title number: 512 (depending on file name length)
- Maximum album number: 255
- Supported sampling frequencies: 32 kHz, 44.1 kHz, 48 kHz
- Supported Bit-rates: 32-320 Kbps and variable bit rate

# 13 Troubleshooting



### Warning

- Never remove the casing of this device.

To keep the warranty valid, never try to repair the system yourself.

If you encounter problems when using this device, check the following points before requesting service. If the problem remains unsolved, go to the Philips web site ([www.philips.com/welcome](http://www.philips.com/welcome)). When you contact Philips, ensure that the device is nearby and the model number and serial number are available.

### No power

- Car engine has not been started. Start the car engine.
- Connections are incorrect.
- Fuse has been damaged. Replace fuse.

### No sound

- Volume is too low. Adjust volume.
- Speaker connections are incorrect.

### No response to the remote control

- Ensure that the path between the remote control and the unit is clear from obstacles.
- From a close distance, point the remote control directly at the unit.
- Switch **F/R** to correct position (**F** for front control and **R** for rear control).
- The function does not work. See the instruction manual.
- Replace the remote control battery.

### Disc does not play

- Disc is upside down. Ensure that the printed side is upwards.
- Disc is dirty. Clean the disc with a clean, soft, lint-free cloth. Wipe the disc outwards from the center.
- Disc is defective. Try another disc.
- incompatible disc is used. Try another disc.

- Disc rating exceeds the restriction setting. Change the rating settings to lower one.
- Disc region code is not compatible with the unit. Use disc with proper region code.

#### **Can't play DivX file from SD or USB**

- This device doesn't support DivX playback in SD or USB mode.

#### **No image**

- Parking wire connection is incorrect. Check the wiring.

#### **No image on rear display**

- Check if you are playing DivX video. If yes, it's normal, for this device does not support video out in DivX playing mode.

#### **Image flashes or distorted**

- Video DVD settings do not match with the DVD. Adjust video DVD settings.
- Video connection is improper: Check the connections.

#### **Noise in broadcasts.**

- Signals are too weak. Select other stations with stronger signals.
- Check the connection of the car antenna.
- Change broadcast from stereo to mono.

#### **Preset stations lost.**

- Battery cable is not correctly connected. Connect the battery cable to the terminal that is always live.

#### **Fuse is broken**

- The fuse type is incorrect. Replace it with a 15A fuse.
- Speaker wire or power wire is grounded. Check the connections.

#### **Display show ERR-12**

- USB/SD/MMC data error: Check the USB device or SD/MMC card.

---

## **About the Bluetooth device**

#### **Music playback is unavailable on the system even after successful Bluetooth connection.**

- The device cannot be used with the system to play music.

#### **The audio quality is poor after connection with a Bluetooth-enabled device.**

- The Bluetooth reception is poor: Move the device closer to the system or remove any obstacle between the device and the system.

#### **Cannot connect with the system.**

- The device does not support the profiles required for the system.
- The Bluetooth function of the device is not enabled. Refer to the user manual of the device to find out how to enable the function.
- The system is not in the pairing mode.
- The system is already connected with another Bluetooth-enabled device. Disconnect that device or all other connected devices and then try again.

#### **The paired mobile phone connects and disconnects constantly.**

- The Bluetooth reception is poor: Move the mobile phone closer to the system or remove any obstacle between the mobile phone and the system.
- Some mobile phones may connect and disconnect constantly when you make or end calls. This does not indicate any malfunction of the system.
- For some mobile phones, the Bluetooth connection may be deactivated automatically as a power-saving feature. This does not indicate any malfunction of the system.

部件名称 Name of the Parts	有毒有害物质或元素 Hazardous/toxic Substance					
	铅 (Pb, Lead)	汞 (Hg, Mercury)	镉 (Cd, cadmium)	六价铬(Chromium 6+)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
Housing 外壳	O	O	O	O	O	O
DVD/CD loader DVD/CD 光盒	X	O	O	O	O	O
LCD Panel 液晶面板	X	X	O	O	O	O
Subwoofer 超重低音箱	X	O	O	O	O	O
Loudspeakers 喇叭单元	O	O	O	O	O	O
PWBs 电路板组件	X	O	O	O	O	O
Accessories (Remote control & cables) 附件 (遥控器, 电 源线, 连接线)	X	O	O	O	O	O
Batteries in Remote Control (ZnC) 遥控器电池	X	O	O	O	O	O

○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363 - 2006 标准规定的限量要求以下。

O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363 – 2006.

×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363 – 2006 标准规定的限量要求。

X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363 - 2006.



环保使用期限 Environmental Protection Use Period

*This logo refers to the period ( 10 years )*

电子信息产品中含有的有毒有害物质或元素在正常使用的条件下不会发生外泄或突变，电子信息产品用户使用该电子信息产品不会对环境造成严重污染或对其人身、财产造成严重 损害的期限。

This logo refers to the period ( 10 years ) during which the toxic or hazardous substances or elements contained in electronic information products will not leak or mutate so that the use of these [substances or elements] will not result in any severe environmental pollution, any bodily injury or damage to any assets.

