

**PHILIPS**

**CED1500BT**

Car audio &  
video system

# User manual



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[www.philips.com/support](http://www.philips.com/support)

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# 1 Safety

Read and understand all instructions before you use the device. 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) 12 V 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 device shall not be exposed to dripping or splashing.
- Do not place any sources of danger on the device (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 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 device with soft, damp cloth. Never use substances such as alcohol, chemicals or household cleaners on the device.
- Risk of swallowing coin battery!
  - The product/remote control may contain a coin/button type battery, which can be swallowed. Keep the battery out of reach of children at all times! If swallowed, the battery can cause serious injury or death. Severe internal burns can occur within two hours of ingestion.
  - If you suspect that a battery has been swallowed or placed inside any part of the body, seek immediate medical attention.
  - When you change the batteries, always keep all new and used batteries out of reach of children. Ensure that the battery compartment is completely secure after you replace the battery.
  - If the battery compartment cannot be completely secured, discontinue use of the product. Keep out of reach of children and contact the manufacturer.

# 2 Your 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/support](http://www.philips.com/support).

## Introduction

With the car entertainment system, you can

- listen to music,
- watch videos,
- view pictures,
- listen to FM and AM/MW radio, and
- make phone calls via Bluetooth.

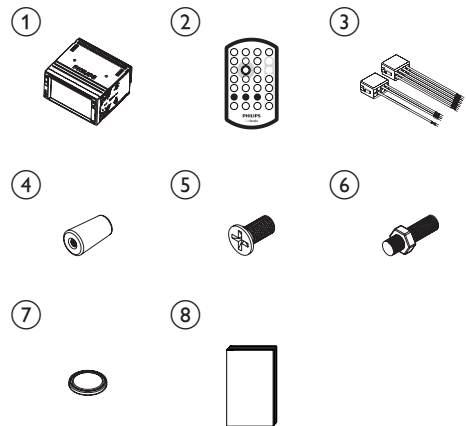
## Playable media

- Disc
  - DVD, Video CD, SVCD, Audio CD, JPEG Picture CD, MP3-CD, WMA-CD
  - DVD-R, DVD-RW, DVD+R, DVD+RW, CD-R, CD-RW
- USB storage device
  - Compatibility: USB 2.0, USB 1.1
  - Class support: MSC (Mass Storage Class)
  - Maximum capacity: 32 GB
- Files
  - File system: FAT16, FAT32
  - Maximum number of folders: 99
  - Maximum number of tracks/files: 999
  - Maximum level of directory: 8
  - Video formats: MPEG1, MPEG2
  - Picture format: .jpeg

- .mp3 files
  - Sampling frequencies: 32 kHz, 44.1 kHz, 48 kHz
  - Bitrates: 8–320 kbps and variable bitrates
- .wma files
  - Versions: V4, V7, V8, V9 (L1 and L2)
  - Sampling frequencies: 44.1 kHz, 48 kHz
  - Bitrates: 64–192 kbps and variable bitrates
- ID3 tag V2.0 or later
- **Unsupported files:**
  - AAC, WAV, and PCM files
  - DRM protected WMA files (.wav, .m4a, .m4p, .mp4, and .aac)
  - WMA files in lossless format

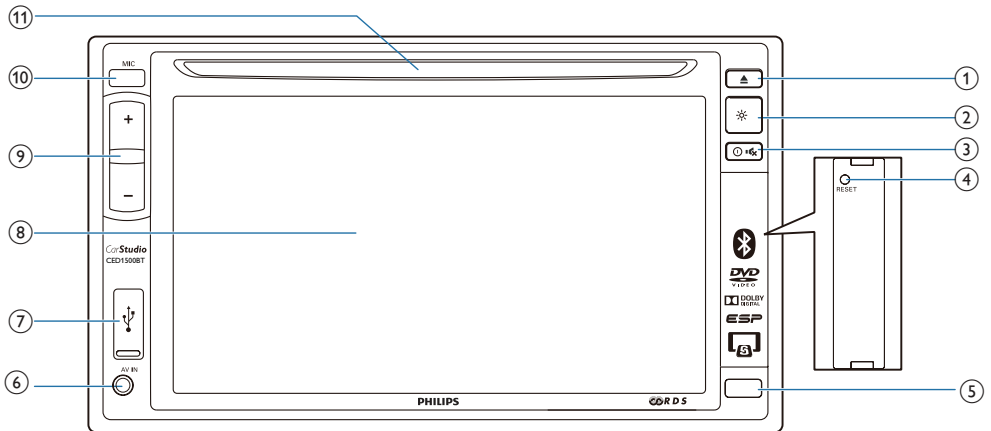
## What's in the box




Check and identify the contents of the package:



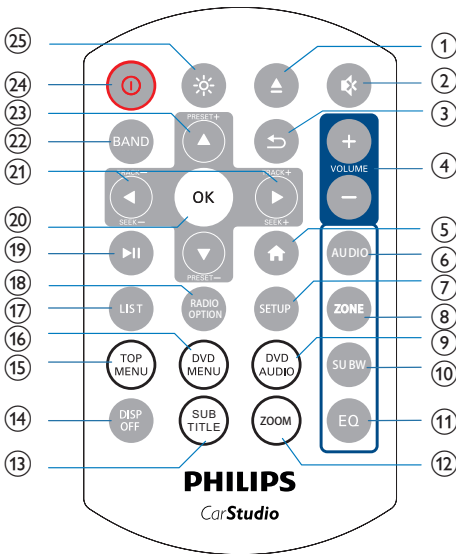
1 Main unit	2 Remote control
3 ISO male connector X 2	4 Rubber cushion
5 Screw X 4 (M5x8mm)	6 Hexagon head screw
7 Remote control battery	8 User manual

## Overview of the main unit



- ① ▲
  - Press to eject the disc.
- ② \*
  - Press and hold to adjust the brightness of LCD screen.
- ③  
  - Press to power on the unit.
  - Press and hold to power off the unit.
  - Press to mute the speakers or release them from mute status.
- ④ **RESET**
  - Press to reset the system.
- ⑤ iR sensor
  - The sensor that receives infra-red signals from the remote control.
- ⑥ **AV-IN**
  - Connect to the audio and video output sockets of an external player by a composite AV cable.
- ⑦ 
  - Connect to a USB storage device.
- ⑧ LCD screen
- ⑨ +/-
  - Press to increase or decrease the volume.
- ⑩ **MIC**
  - The built-in microphone for phone calls.
- ⑪ Disc slot

## Overview of the remote control



- ① ▲
  - Press to eject the disc.
- ② ⊘
  - Press to mute the speakers or release them from mute status.
- ③ ◀
  - Return to the previous menu or mode.
- ④ VOLUME + / -
  - Press to increase or decrease the volume.
- ⑤ ⬆
  - Access the home menu.
- ⑥ AUDIO
  - Select an audio language or audio channel.
- ⑦ SETUP
  - Access to system setup menu..
- ⑧ ZONE
  - Select music listening zone.
- ⑨ DVD AUDIO
  - Select an audio language or audio channel.
- ⑩ SUBW
  - Access the menu for subwoofer settings.
- ⑪ EQ
  - Select a preset sound equalizer.
- ⑫ ZOOM
  - Select a music listening zone.
- ⑬ SUB TITLE
  - Select an available subtitle.
- ⑭ DISP OFF
  - Turn on or off the screen.
- ⑮ TOP MENU
  - Access the top menu.
- ⑯ DVD MENU
  - Access the DVD menu.
- ⑰ LIST
  - Access the the folder or file list.
- ⑱ RADIO OPTION
  - In radio mode, press to display available menus or options.
- ⑲ ▶||
  - Start, pause, or resume the play.
- ⑳ OK
  - Confirm an option.
- ㉑ ◀/▶/TRACK -/TRACK +
  - Skip to the previous or next track, chapter, or file.
  - For DVD, press and hold to select a speed for fast backward or forward search.
- ㉒ BAND
  - Select a tuner band.
- ㉓ ▲/▼/PRESET +/PRESET -
  - Tune to the previous or next preset radio station.
  - Skip to the previous or next folder.
- ㉔ ⏻
  - Turn the car audio on or off.
- ㉕ ☼
  - Press to adjust the brightness of the LCD screen.

# 3 Install the car entertainment system

Always follow the instructions in this chapter in sequence.

These instructions are for a typical installation. However, if your car has different requirements, make the adjustment accordingly. If you have any question regarding installation kits, consult your local retailer.

## Note

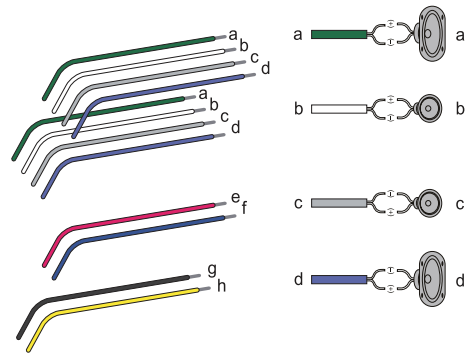
- This system is designed for negative ground (earth) 12V DC operation only.
- Always install this system in the car dashboard. Other locations can be dangerous as the rear of the system heats up during use.
- To avoid short-circuit: before you connect, make sure that the ignition is off.
- Make sure that you connect the yellow and red power supply leads after all other leads are connected.
- Make sure that all loose leads are insulated with electrical tape.
- Make sure that the leads do not get caught under screws iron parts that will move (e.g. seat rail).
- Make sure that all ground (earth) leads are run 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.
- When you connect other devices to this system, make sure that the rating of the car circuit is higher than the total fuse value of all the connected devices.
- Never connect speaker wires to the metal body or chassis of the car.
- Never connect speaker wires with stripes to one another.

## Connect wires

### Note

- Make sure that all loose leads are insulated with electrical tape.
- Consult a professional to connect wires as instructed below.
- Before connection, check the car's wiring carefully.

1 Connect the ISO male connectors.



ISO male connectors	Connect to
a Green strip, black-edged green strip	Rear left speaker
b White strip, black-edged white strip	Front left speaker
c Gray strip, black-edged gray strip	Front right speaker
d Purple strip, black-edged purple strip	Rear right speaker
e Red strip	Ignition key +12V DC when ON/ACC
f Blue strip	Motor/electric antenna relay control lead

	ISO male connectors	Connect to
g	Black strip	Ground
h	Yellow strip	The +12V car battery which is energized at all times

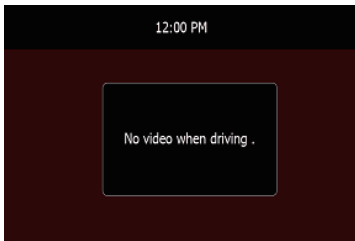
2 Connect other wires if necessary.

### ! Caution

- To avoid an accident, the driver must not watch video while driving. By design, this system disallows watching video during drive. Park your car in a safe place and engage the parking brake before watching video.

### ☰ Note

- When the parking brake of your vehicle is not engaged, the video blocking system is activated. It blocks the display of front video source only.
- If the system is not properly connected with the parking brake control module of your vehicle, video signals will be blocked by the system, with the below message displayed on the TFT.



	Connectors and sockets on rear panel	External sockets or connectors
1	For ISO male connectors	As indicated above
2	<b>REAR OUT R</b> (Red socket)	Rear right speaker

	Connectors and sockets on rear panel	External sockets or connectors
3	<b>AV-IN R</b> (Red socket)	Right audio channel output socket of an external player
4	<b>AV-IN L</b> (White socket)	Left audio channel output socket of an external player
5	<b>REAR OUT L</b> (White socket)	Rear left speaker
6	<b>VIDEO IN</b> (Yellow socket)	Video output socket of an external player
7	<b>VIDEO OUT 1</b> (Yellow socket)	Video input socket of an external display device
8	<b>VIDEO OUT 2</b> (Yellow socket)	Video input socket of an external display device
9	<b>RADIO ANTENNA</b> (Black connector)	Radio antenna
10	<b>CAMERA IN</b> (Purple socket)	Video output socket of an external camera
11	<b>SUB-W OUT</b> (Blue socket)	Sub-woofer
12	<b>REVERSE CAMERA</b> (Purple wire)	Reverse camera (B+)
13	<b>PARKING BRAKE</b> (Pink wire)	Parking brake (-)
14	<b>External Smart Link Box</b> (Black connector)	External Smart Phone Mirror Box
15	<b>OE SWC IR REMOTE IN</b> (Brown wire)	OE SWC remote in

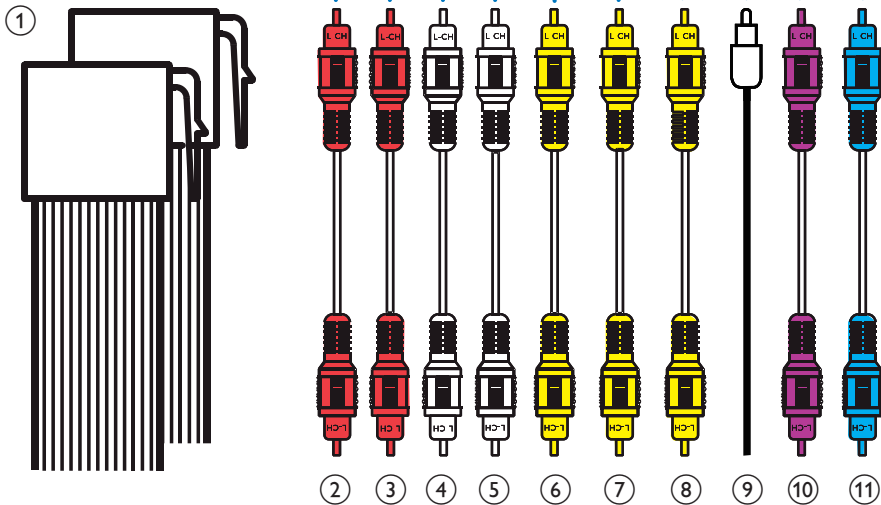
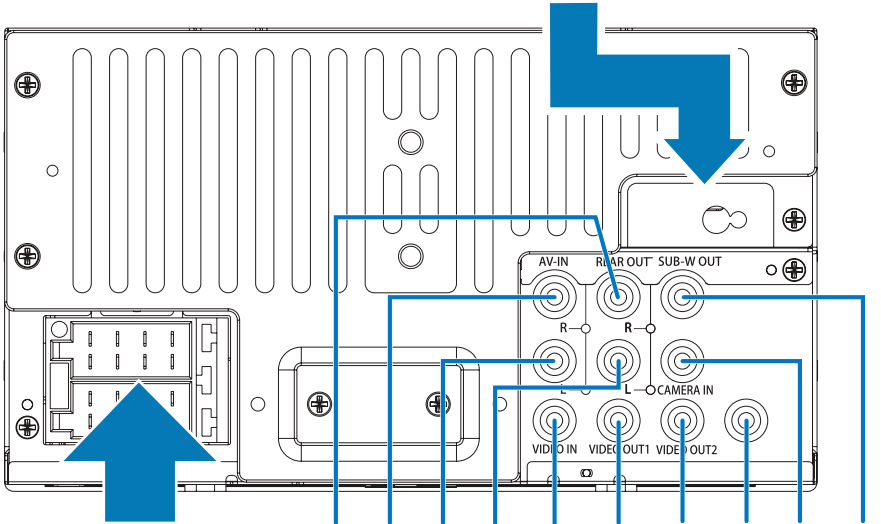
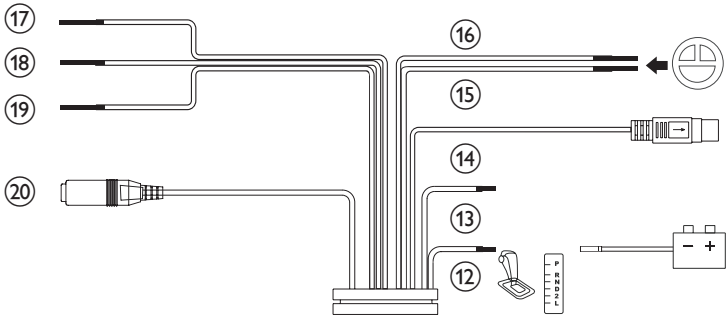


	Connectors and sockets on rear panel	External sockets or connectors
16	OE SWC IR REMOTE IN (Black wire)	Ground
17	OE SWC AD LEARN (White wire)	OE SWC AD Learn line 1
18	OE SWC AD LEARN (White wire)	OE SWC AD Learn line 2
19	OE SWC AD LEARN (Black wire)	Ground
20	External Mic (Black connector)	External microphone



#### Tip

- The pin arrangement for the ISO connectors depends on the type of your vehicle. To avoid damage to the system, connect properly.



## Mount into the dashboard

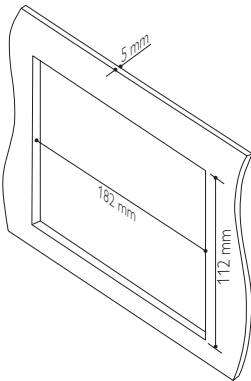
### Note

- Make sure that wires are correctly connected before you mount the main 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.

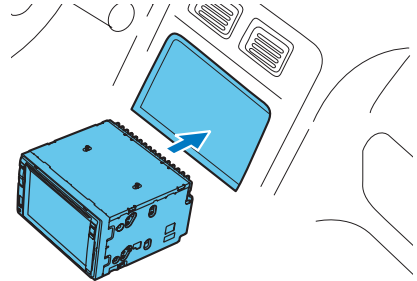
- If you disconnect the car battery in a car that has an on-board drive or navigation computer, the computer may lose its memory.
- If the car battery is not disconnected, to avoid short-circuit, make sure that bare wires do not touch each other.

**2** Make sure 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, make sure 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.



**4** Reconnect the negative terminal of the car battery.

# 4 Get started

## ! Caution

- Risk of car accidents! Never watch video or operate this system while driving.

## Prepare the remote control

### For the first time use

Pull the protective sheet out.

↳ The remote control is ready for use.

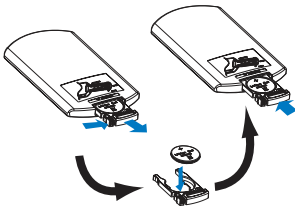
## Replace the battery

## ! Caution

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

## ☰ Note

- Remove the battery if it is exhausted or if the remote control is not to be used for a long time.
- Batteries contain chemical substances, they should be disposed of properly.



- 1 Pull out the battery tray.
- 2 Insert one CR2025 battery with correct polarity (+/-) as indicated.
- 3 Insert the battery tray.

## Turn on

Press **⏻**.

↳ PHILIPS logo and a progress bar are displayed while boot-up.

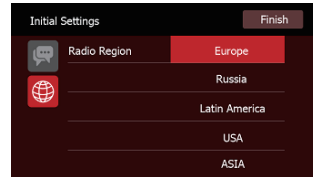
- To turn off the system, press and hold **⏻** for 3 seconds.

## For the first time use

After successful boot-up, the following interface is displayed.



- 1 Tap [**Language**] to select a language for on-screen display.



- 2 Tap [**Radio Region**] to select a radio region that matches your location.
- 3 Tap [**Finish**] to complete the initial setup.
  - ↳ The device switches to radio mode automatically.


## Use the home menu

## ☰ Note









- If **⊘** is displayed when you touch an icon, it indicates that the selected media or feature is unavailable at the current time.

---

## Access the home menu



Tap  to access the home menu.

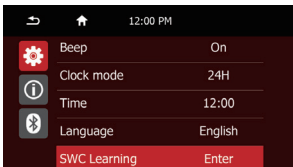


-  **[Tuner]**: Switch the source to FM/AM radio.
-  **[Disc]**: Switch the source to disc.
-  **[USB]**: Switch the source to USB storage device.
-  **[Bluetooth]**: Use the Bluetooth feature.
-  **[AV1 IN]/[AV2 IN]**: Switch the source to the audio and video input that is transferred from an external video player.
-  **[Mirror]**: Access the the Smart Phone Mirror Box (not supplied by Philips) via Smart Connect Link (refer to Chapter 8).
-  **[Turn Off LCD]**: Turn the LCD off.
- : Access the system menu.



---


## Set the time

- 1 Tap .
- 2 Tap .  
↳ The following menu is displayed.




- 3 Tap **[Clock mode]** to select a time format.
  - **[24 Hour]**: 24-hour time format
  - **[12 Hour]**: 12-hour time format

- 4 Tap **[Time]**, tap the hour or minute digits, and then tap / to set the hour or minute.

- 5 Tap  to return to the previous menu.

---

## Adjust the screen brightness

Press and hold  on the front panel to select a brightness level of the screen.

# 5 Play from hard media

You can use this system to listen to audio, watch videos, and view photos that are stored on a disc or USB storage device.

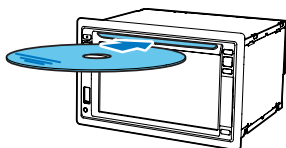
## Note

- Before use, check for compatible media.

## Load a disc

### Caution


- Never insert any object other than a disc of 12-cm diameter into the disc slot.



- 1 Insert the disc into the disc slot with the label side facing up.  
↳ Play starts automatically.
  - If play does not start automatically, tap the screen to display the ► icon, and then tap ► to start play.
- 2 To eject the disc, press ▲.  
↳ When the disc is ejected, the system switches to the previous source or radio mode.

## Region code


This system can play DVD discs marked with the following region code.

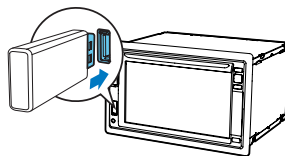
DVD region code	Countries and regions
	South Africa

## Connect a USB storage device

### Note

- Make sure that the USB storage device contains compatible files.
- NTFS (New Technology File System) file system is not supported.

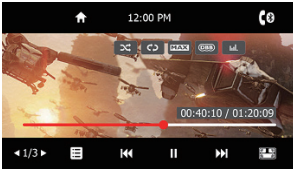
- 1 Push the USB socket cover upwards to open it.
- 2 Connect the USB storage device to the USB socket.
- 3 Tap  [USB] on the home menu.  
↳ Play starts automatically.



- To remove the USB storage device, switch the system to another source first.

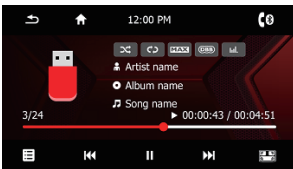
# Control play

## Videos and pictures



- : Return to the home menu.
- :
  - For DVD, return to the disc menu or root menu.
  - For recorded files, return to the list of files or folders.
- : Skip to the previous or next title, chapter, track, or file.
  - To search forward fast or rewind the track, tap on the progress bar.
- : Start, pause, or resume play.

## Audios



- : Return to the home menu.
- :
  - Press once to access the track list.
  - Press repeatedly to return to the playback interface.
- : Return to the list of tracks or folders.
- : Skip to the previous or next track.
  - To search forward fast or rewind the track, tap on the progress bar.
- : Start, pause, or resume play.

- / / : Select a repeat mode.
  - : Repeat the current track.
  - : For recorded files, repeat all tracks in the current folder.
  - (highlighted): Repeat all tracks.
- : Select random play ( highlighted) or sequential play ( in gray).

## Browse recorded files

During playing recorded files, you can access the file list and select files from the list.

- 1 Tap to access the list of files or folders.



- 2 Tap an icon to select a file category.
  - : Display the list of audio tracks or folders.
  - : Display the list of picture files or folders.
  - : Display the list of video files or folders.
- 3 Tap the name of a file to start play.

# 6 Listen to radio

## Switch to radio mode

After the boot-up at the first time, the system switches to radio mode automatically.

To switch the source back to radio afterwards, tap [Tuner] on the home menu.

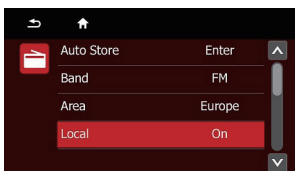
↳ The interface for radio is displayed.



## Set up

Before you search for radio stations, make prior setup.

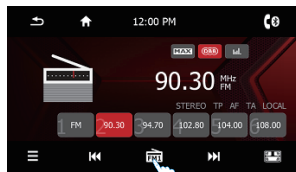
Tap to display the setup menus.



## Select a radio range

- 1 Tap [Local] to select a tuner sensitivity.
  - [Off]: Stations with strong and weak signals can be tuned to.
  - [On]: Only stations with strong signals can be tuned to.

## Tune to a radio station



- 1 Tap **FM** or **AM** to select a band.
  - FM bands: **FM1**, **FM2**, **FM3**
  - AM bands: **AM1**, **AM2**
- 2 Tap and hold + or - until the frequency of target radio station is displayed.
  - To tune to a radio station automatically, tap + or -.

### Tip

- You can also press **BAND** on the remote control repeatedly to select a band.

## Store radio stations in memory

You can store up to 6 stations in each band.

## Store radio stations manually


- 1 Select a band.
- 2 Tune to the target radio station.
- 3 Tap and hold one of the channels (1 to 6) over two seconds.
  - ↳ The radio station is saved under the selected channel.



---

## Store radio stations automatically

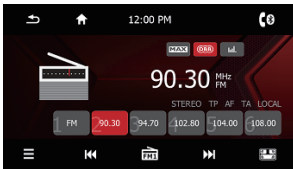
You can search for a radio station with intro search, which broadcasts a 10-second preview of each detected radio station.

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

---


## Tune to a preset radio station

- 1 Select a band.
- 2 Tap one of the preset channels (1 to 6) to select a preset radio station.



---


## Use RDS related features

 **Note**

- Only after RDS feature is enabled, you can use RDS related features.

---

## Search for RDS programs of a specific type

- 1 Tap  > [PTY] to display the list of program types.

- 2 Tap the name of a program type to start search.
  - ↳ Once an RDS station that transmits programs of the selected type is found, the RDS station is broadcast automatically.
  - To save the RDS station, tap and hold one of the preset channels.
  - To search for another RDS station, repeat steps 1 and 2.

### RDS program types

Item	Program type	Description
1	<b>NEWS</b>	News services
2	<b>AFFAIRS</b>	Politics and current affairs
3	<b>INFO</b>	Special information programs
4	<b>SPORT</b>	Sports
5	<b>EDUCATE</b>	Education and advanced training
6	<b>DRAMA</b>	Radio plays and literature
7	<b>CULTURE</b>	Culture, religion and society
8	<b>SCIENCE</b>	Science
9	<b>VARIED</b>	Entertainment programs
10	<b>POP M</b>	Pop music
11	<b>ROCK M</b>	Rock music
12	<b>MOR M</b>	Light music
13	<b>LIGHT M</b>	Light classical music
14	<b>CLASSICS</b>	Classical music
15	<b>OTHER M</b>	Special music programs
16	<b>WEATHER</b>	Weather
17	<b>FINANCE</b>	Finance
18	<b>CHILDREN</b>	Children's programs
19	<b>SOCIAL</b>	Social Affairs
20	<b>RELIGION</b>	Religion
21	<b>PHONE IN</b>	Phone In

Item	Program type	Description
22	TRAVEL	Travel
23	LEISURE	Leisure
24	JAZZ	Jazz Music
25	COUNTRY	Country Music
26	NATION M	National Music
27	OLDIES	Oldies Music
28	FOLK M	Folk Music
29	DOCUMENT	Documentary
30	TEST	Alarm Test
31	ALARM	Alarm

## Use alternate frequencies

If the signal of an RDS station is poor, enable the AF (Alternate Frequency) function. The system searches for a strong station that broadcasts the same program.

Tap **AF** to enable or disable the AF function.

- **AF** (highlighted): The function is enabled.
- **AF** (in gray): The function is disabled.

# 7 Use Bluetooth devices

With this system, you can listen to audio from a player and make a call through Bluetooth.

## Pair a device

### Note

- Gibson Innovations does not guarantee the compatibility with all Bluetooth devices.
- Before pairing a device with this system, read its user manual for Bluetooth compatibility.
- Make sure that Bluetooth function is enabled on your device, and your device is set as visible to all other Bluetooth devices.
- The operational range between this system and a Bluetooth device is approximately 8 meters (24 feet).
- Any obstacle between this system and a Bluetooth device can reduce the operational range.
- Keep away from any other electronic device that may cause interference.


On your device, follow the steps below.

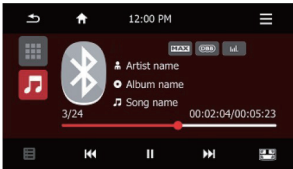
- 1 Search for Bluetooth devices.
- 2 In the device list, select **CE1500BT**.
- 3 Enter the default password "0000", and then confirm the password entry.
- 4 Enable or permit the connection with CE1500BT.
  - ↳ If the connection succeeds, **[CONNECTED OK]** is displayed on the LCD screen of this system.
  - To disconnect a device, disable the Bluetooth function on the device. Before connecting another device, disconnect the current device first.



---

## Play audio from a connected device

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

- 1 Play a track on the connected device.
- 2 On this system, tap  to display the music playback interface.



- 3 Tap icons on the interface to control play.
  - : Pause or resume play.
  - : Select the previous or next track.

### Note

- If the connected device does not support the AVRCP profile, control play on the connected device.

---

## Make a call

### Note

- Keep the Bluetooth connection active between the system and your mobile phone.

---

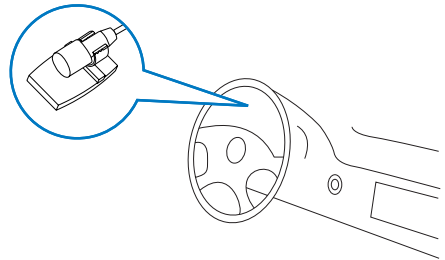
## Locate the external microphone

You can connect an external microphone for better communication quality.

### Note

- The external microphone is not included in the packaging of this system.

- 1 Make sure that the microphone is connected to this system.
- 2 Place the microphone at a proper location, such as, stick it onto the dashboard, or clip it on the sun-shield.

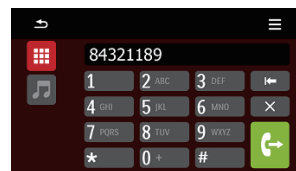








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## Call a number



You can make phone calls with the system.

- 1 Tap .
  - ↳ The keypad is displayed.



- 2 Tap number icons to enter the phone number.
  - To clear the last digit, tap .
  - To clear all digits, tap .
  - To return to the previous screen, tap .
- 3 Tap  to send the call.
  - To end the call, tap .
  - To enter numbers during the call, tap  to display the keypad first.

## Redial the last called number

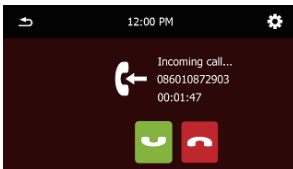
- 1 Tap .
  - ↳ The last called number is displayed.
- 2 Tap  again to send the call.



## Answer a call

### Note

- By default, all incoming calls are picked up automatically. You can disable the function of automatic answer.

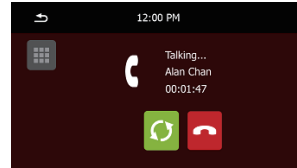
- 1 When there is an incoming call, **[Incoming call...]** is displayed on the screen.




- 2 Tap  to answer the call.
  - To reject or end the call, tap .

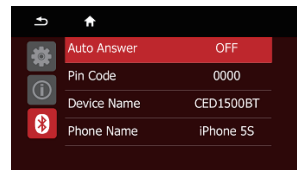
## Transfer a phone call to mobile phone


By default, the voice comes from the loudspeakers during a call.



- 1 Tap  to transfer the phone call to your mobile phone.
  - ↳ The loudspeakers are muted, and the voice comes from the mobile phone only.
- 2 Take up your mobile phone for the conversation.

## Adjust Bluetooth settings



Tap  to access the menu for Bluetooth settings.

Bluetooth settings	Options	Description
--------------------	---------	-------------

[Auto Answer]	[On]	Answer phone calls automatically when the paired mobile phone receives an incoming call.
[Off]		Answer phone calls manually.

Bluetooth settings	Options	Description
[Pin Code]		Set the password for pairing the car entertainment system with another Bluetooth device. The default password is <b>0000</b> .
[Device name]	<b>CED 1500BT</b>	Turn on the external microphone.
[Phone Name]		Show the phone name that is connected with CED1500BT.

## 8 Smart Connect Link

Smart Connect Link is a device interoperability standard defined by Philips that offers integration between external peripheral (TV box, smart devices, etc) and Philips's car entertainment system. Smart Connect Link brings the attached peripheral's function into the application platform of the Philips car entertainment system where apps are still hosted and running on the external peripheral. Drivers and passengers can interact with the external peripheral through the touch screen of Phillips car entertainment system.

Smart Connect Link uses generic RGB video signal standard to enable the display of the user interface from external peripheral application on Philips car entertainment system and utilizes Bluetooth HID profile protocol standard to communicate user input back to the peripheral.

Contact your dealer for the Smart Connect Link compatible devices to enrich your entertainment experience.

## 9 Universal USB Charging

Philips enhanced the USB interface which was normally used for music playback from pen drive to now being able to supply current for charging smart devices.

The current required for recharging phone battery or operation for some smart devices are higher than the standard USB can afford.

The new Philips Universal USB charging interface is able to supply 1 Amp of current to a smart device, sufficient to charge up its battery and power it up for intensive usage. The software protocol is also designed to be universal such that it can be compatible with virtually all smart phones available in the market and starts charging process instantly when USB is connected.

## 10 Adjust sound

When you listen to radio, enjoy music, or watch video, follow the instructions below to adjust sound.

---

### Adjust the volume level


Press +/- repeatedly on the front panel.

- +: Increase the volume level.
- -: Decrease the volume level.

---

### Mute sound

Press  on the front panel.

- To release the speakers from mute status, press  again.

---

### Enable the MAX Sound feature

Tap **MAX** on the playback interface.

- **MAX** (highlighted): The **MAX Sound** feature is enabled.
- **MAX** (in gray): The **MAX Sound** feature is disabled.

---


### Enable the DBB sound effect

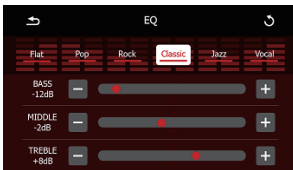
When DBB (Dynamic Bass Boost) is enabled, low tones are enhanced electronically.


Tap  on the playback interface.

- **DBB** (highlighted): DBB sound effect is enabled.
- **DBB** (in gray): DBB sound effect is disabled.

## Select a preset sound equalizer

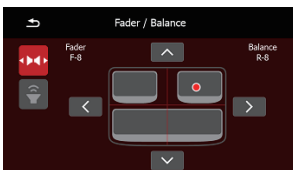
- 1 Tap  on the playback interface.  
↳ The current equalizer settings are displayed.





- 2 Tap **[User]**, **[Pop]**, **[Rock]**, **[Classic]**, **[Jazz]**, or **[Vocal]** to select a preset sound equalizer.  
↳ The selected sound equalizer is highlighted.
- 3 Tap **+** or **-** to adjust the settings.
  - **[Bass]**: bass range (-15 to +15)
  - **[Middle]**: middle range (-15 to +15)
  - **[Treble]**: treble range (-15 to +15)
- 4 Tap  to exit.

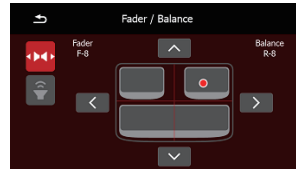
## Others





- Tap  on the playback interface.  
↳ The setup interface is displayed.



- : Tap to display the **[Fader/Balance]** interface for selecting fader and balance.
- : Tap to display the **[SubWoofer]** interface.

## Adjust the fader and balance

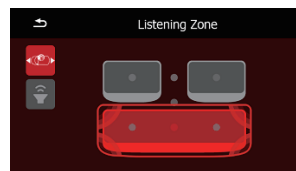


Tap , ,  or  to adjust fader or balance value.

- **[Fader]**: fader range (+16 to -16).
- **[Balance]**: balance range (-16 to +16).

## Select a listening zone

Philips' innovative Zone technology enables the 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 the driver to passengers for the best speaker sound settings in car.



Tap a gray area to switch the listening zone.

- ↳ The selected area is highlighted with red dot.

## Set the sub-woofer



- **[On]/[Off]**: Tap to turn on or off the sub-woofer.
- **+ / -** : Tap to set the volume of sub-woofer (0 dB to 12 dB).
- **[80 Hz]/[120 Hz]/[160 Hz]**: Tap to select a low pass filter range for the sub-woofer.

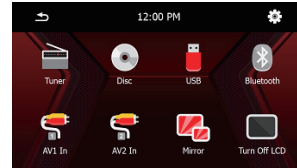
You can also change the settings by the remote control.


- 1 Press **SUBW** to access the menu.
- 2 Press **OK** to enable or disable the subwoofer.
- 3 Press **▲/▼** to select a low pass filter range.
- 4 Press **◀/▶** to set the volume.
  - To exit the menu, press **SUBW** again.

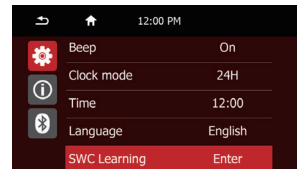
# 11 Adjust settings





## Access system setup menus

- 1 Tap .



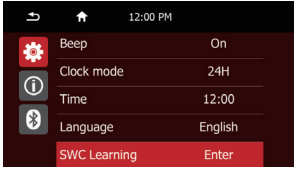
- 2 Tap .  
↳ The following menu is displayed.



- 3 Tap an icon on the left.
  -  : Access the menu to adjust general settings.
  -  : Access the menu to view system information.
  -  : Access the menu to adjust Bluetooth settings.
- 4 Tap an option to view details or change the setting.
  - To exit the menu, tap .



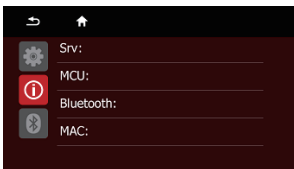
## Adjust general settings



Settings	Options	Description
[Beep]	[On]	Turn the beep sound on. Each time you press a button or tap an icon, the unit beeps.
	[Off]	Turn off the beep sound.
[Clock mode]	[12 Hour] [24 Hour]	Select a time format.
[Time]		Set the time.
[Language]		Select an OSD (on-screen display) language.
[SWC Learning]		Access the [Steering Remote Learning] interface
[Calibration]		Follow the on-screen instructions to calibrate the touch screen.

Settings	Options
[Srv]	View the firmware version.
[MCU]	
[Bluetooth]	View the version of Bluetooth.
[MAC]	View the MAC address of the product.

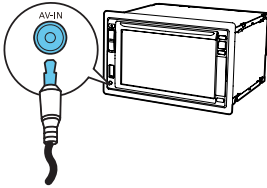
## View system information





# 12 Others



## Play external audio/video input

You can connect an external audio/video player to this system.



- 1 Connect a composite AV cable to
  - the AV-IN socket on the front panel, and
  - the audio and video output sockets of the external player.
- 2 Tap  >  [AV1 IN] to display the playback interface.
- 3 Operate on the external player to start play (see the user manual of the external device).

### Tip

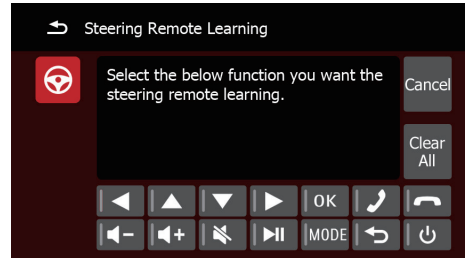
- If you connect this system to an external player through the VIDEO IN, AV-IN L, and AV-IN R sockets on the rear panel, tap  [AV1 IN] to switch the source instead of  [AV2 IN].


## Use buttons on the steering wheel

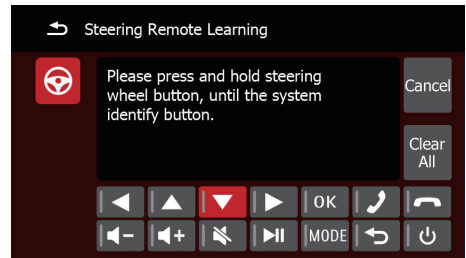
You can assign a function to a button on the steering wheel, and then control the system with that button.

- 1 Tap  > .

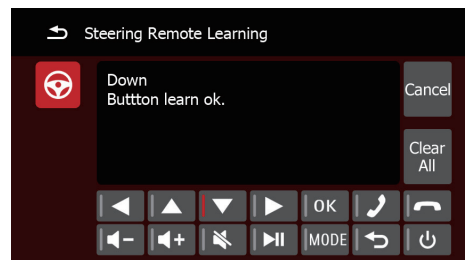
- 2 Tap [SWC Learning].
  - ↳ The [Steering Remote Learning] interface is displayed.



- 3 Tap an icon, for example, , of which you want to assign the function to a button on the steering wheel.



- To cancel the assignment, tap [Cancel].
- 4 Press and hold the button on the steering wheel for one second.
    - ↳ The following interface is displayed.

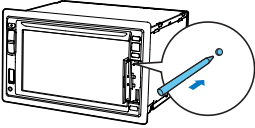


- Repeat steps 3 and 4 to assign more functions to buttons on the steering wheel.
  - To clear the assignment, tap [Clear All].

---

## Reset the system

If the system hangs up, reset it.



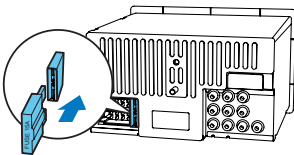
- Flip up the protective cover.
- Press **RESET** with the tip of a ball-point pen or toothpick.

---

## Replace the fuse

If there is no power, check the fuse and replace it if it is damaged.

- Detach the main unit from dashboard.
- Check the electric connection.
- Remove the damaged fuse from the rear panel.
- Insert a new fuse with the same specifications (15 A).



### Tip

- If the fuse gets damaged immediately after it is replaced, an internal malfunction may occur. In this case, consult your retailer.

---

## Upgrade the firmware

### Note

- Power supply must not be interrupted during the upgrade.
- When the firmware upgrade succeeds, all settings are restored to the factory default status.

---

## Register your product

- Go to [www.philips.com/support](http://www.philips.com/support).
- Click the link of “**Register my product**” (the exact wording of this link name may vary in different languages).
- Log in with your account on the prompt Web page.
  - If you have no account for Club Philips, create one first on this Web page.
- Search your product with “**CED1500BT/98**” as the keyword.
- Click the link of search result to access the Web page for registering your product.
- Fill in necessary information about this product to complete the registration.
  - ↳ With the registration, you can get information about software update and product support at this Web page or via your mailbox that is registered as the account for Club Philips.

---

## Perform the upgrade

- Check the current firmware version of this system.
- Go to [www.philips.com/support](http://www.philips.com/support).

- 3 Login with your account for Club Philips.  
↳ Support information about your registered product is displayed.
- 4 Click the link of “**Firmware Upgrade Readme File**” (the exact wording of this link name may vary in different languages).
- 5 Read and understand the instructions on firmware upgrade.
- 6 Follow the instructions to download the upgrade packet and complete the upgrade.
  - If the upgrade fails, reboot this system, and then perform the upgrade again.

# 13 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	21 W x 4 channels (4 $\Omega$ 10% T.H.D.)
Pre-Amp output voltage	2.5 V (CD play mode; 1 kHz, 0 dB, 10 k $\Omega$ load)
Sub-woofer output voltage	2.5 V (CD play mode, 61 Hz, 0 dB, 10 k $\Omega$ load)
Aux-in level	$\geq$ 800 mV
Dimensions (W x H x D)	178 x 101.5 x 160 mm
Weight (main unit)	1.9 kg

## Disc player

System	DVD / CD audio / MP3 system
Disc diameter	12 cm
Frequency response	20 Hz - 20 kHz

Signal/noise ratio	> 75 dB
Total harmonic distortion	Less than 0.3%
Channel separation	> 55 dB
Video signal format	NTSC/PAL
Video output	1 +/- 0.2 V p-p

## Radio

Frequency range - FM	87.5 - 108.0 MHz (50 kHz per step)
Frequency range - AM (MW)	522 - 1620 kHz (9 kHz per step)
Usable sensitivity - FM	2 uV
Usable sensitivity - AM (MW)	25 uV

## LCD

Screen size	6.2 inches
Display resolution	800 x 480 dots
Contrast ratio	500
Brightness	450 cd/m <sup>2</sup>

## 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 Transmit	SBC (Sub Band Codec) SBC (Sub Band Codec)

# 14 Troubleshooting



## Warning

- Never remove the casing of this product.

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

If you encounter problems when using this product, check the following points before requesting service. If the problem remains unsolved, go to the Philips Web page ([www.philips.com/support](http://www.philips.com/support)). When you contact the Consumer Care, make sure that the product is nearby and the model number and serial number are available.

---

## General

### No power

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

### No sound

- Volume is too low. adjust the volume.
- Speaker connections are incorrect.

### No response to the remote control

- Make sure that the path between the remote control and the unit is clear from obstacles.
- Move the remote control close to the unit, and point it at the iR sensor.
- The function is not applicable to the current media.
- Replace the remote control battery.

### The disc does not play.

- The disc is upside down. Make sure that the printed side is upwards.
- The disc is dirty. Clean the disc with a clean, soft, lint-free cloth. Wipe the disc outwards from the center.
- The disc is defective. Try another disc.
- The disc is incompatible. Try another disc.
- The recordable disc is not finalized.
- The region code of DVD disc is not supported. Use a disc with proper region code.

### No image

- Parking wire connection is incorrect. Check the wiring.

### No image on rear monitor

- Enable the signal transferring to rear monitors.

### Image flashes or is distorted.

- Video connection is improper. Check the connections.

### Noise in broadcasts

- Signals are too weak. Select another station with stronger signals.
- Check the connection of the car antenna.

### Preset stations are lost.

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

### The fuse is broken.

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

---

## 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.

# 15 Notice

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

---

## Compliance

This apparatus includes this label:



---

## Care of the environment



Your product is designed and manufactured with high quality materials and components, which can be recycled and reused. Do not throw away the product with the normal household waste at the end of its life, but hand it in at an official collection point or recycling. By doing this, you help to preserve the environment.

### 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.

---

## Trademark notice



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Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.



'DVD Video' is a trademark of DVD Format/Logo Licensing Corporation.



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## Copyright



Be responsible  
Respect copyrights

This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.

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Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V. and are used under license. Specifications are subject to change without notice. Gibson Innovations reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly.

## Warranty against Defects

In this warranty:

**We or us** means Gibson Innovations ABN 531 651 059 75, and our contact details are set out at the end of this warranty;

**You** means the purchaser or the original end-user of the Goods;

**Supplier** means the authorised distributor or retailer of the Goods that sold you the Goods in Australia, New Zealand or South Africa; and

**Goods** means the product or equipment which was accompanied by this warranty and purchased in Australia, New Zealand or South Africa.

If you require assistance with the operation of the product, its features or specifications please contact

Australia	New Zealand	South Africa
DLG International Telephone: 1800 304 811	DLG International Telephone: 0800 437 663	Connoisseur Electronics (Pty) Ltd Telephone: 0860100551 Email: info@connoisseur.co.za

**Australia:** Our Goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the Goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. This is not a complete statement of your legal rights as a consumer.

**New Zealand:** Our Goods come with guarantees that cannot be excluded under the Consumer Guarantees Act 1993. This guarantee applies in addition to the conditions and guarantees implied by that legislation.

### Additional Warranty:

In addition to the rights and remedies that you have under the Australian Consumer Law, Consumer Guarantees Act of New Zealand, South African Law, or any other applicable law, we provide the following warranty against defects:

- If, during the first **12 months** from their date of purchase from the Supplier (**Warranty Period**), the Goods prove defective by reason of improper workmanship or materials and none of your statutory rights or remedies apply, we will repair or replace the Goods without charge.
- We do not have to repair or replace the Goods under this Additional Warranty if the Goods have been used for a commercial purpose; misused, improperly or inappropriately installed, operated or repaired; abused; damaged; or not maintained in accordance with the manufacturer's instructions.
- Even when we do not have to repair or replace the Goods, we may decide to do so anyway. In some cases, we may decide to substitute the Goods with a similar alternative product of our choosing. All such decisions are at our absolute discretion.

- All such repaired, replaced or substituted Goods continue to receive the benefit of this Additional Warranty for the time remaining on the original Warranty Period.
- This Additional Warranty is limited to repair, replacement or substitution only. As far as the law permits, we will not be liable for any loss or damage caused to property or persons arising from any cause whatsoever.
- In order to claim under this Additional Warranty you must contact us within the Warranty Period:

Australia	New Zealand	South Africa
DLG International Telephone: 1800 304 811	DLG International Telephone: 0800 437 663	Connoisseur Electronics (Pty) Ltd Telephone: 0860100551 Email: info@connoisseur.co.za

You will be asked for details of the Goods, a description of the defect and your personal details. Upon accepting your claim, we shall assist you with either returning the Goods to the Supplier for replacement or to the most convenient Philips Authorized Service Centre for your Goods to be repaired. In some case we may require that you return to the Goods to us (at the address below) for repair, replacement or substitution.

- \* All returned Goods must be accompanied by satisfactory proof of purchase which clearly indicates the name and address of the Supplier, the date and place of purchase and identifies product. It is best to provide a legible and unmodified receipt or sales invoice.
  - \* You must bear any expense for return of the Goods or otherwise associated with making your claim under this Additional Warranty.
- This warranty is only valid and enforceable in Australia, New Zealand and South Africa.

Contact us or the place of purchase for further details.

Australia	New Zealand	South Africa
DLG International 88 Enterprise Ave Berwick 3086 Melbourne	DLG International Unit K 11 Echelon Place East Tamaki 2013	Connoisseur Electronics (Pty) Ltd The Mediterranean Conference Centre 72 Concorde Road East Bedfordview Gauteng 2007 Telephone: 011-4501122

<b>Service:</b> 1800 304 811	<b>Service:</b> 0800 437 663	<b>Service:</b> 0860100551
<b>E-mail:</b> service@dlgint.com.au	<b>E-mail:</b> service@dlgint.co.nz	<b>E-mail:</b> info@connoisseur.co.za



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