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User manual



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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 batteries! A coin type battery is bundled, which can be swallowed. Keep the battery out of reach of children at all times!

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/welcome.

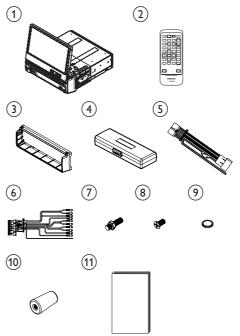
Introduction

With the car entertainment system, you can

- listen to music,
- watch videos,
- view pictures,
- listen to FM (RDS included) and AM/MW radio,
- make phone calls via Bluetooth, and
- navigate your road trip.

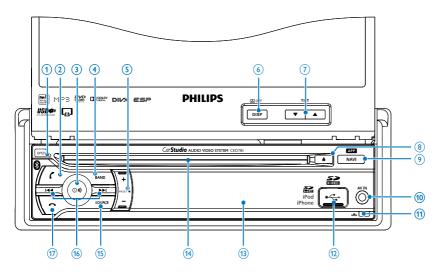
What's in the box

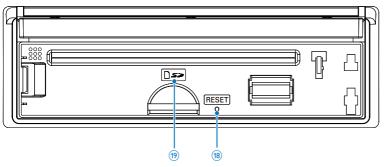
Check and identify the contents of the package:



- 1 Main unit and front panel (with a sleeve)
- Remote control
- 3 Trim plate
- (4) Carrying case for front panel
- 5 ISO standard connector
- 6 Audio and Video cable
- (7) Hexagon head screw
- 8 Screws x 4 (M4x8mm)
- (9) Remote control battery
- (10) Rubber cushion
- (11) User manual

Overview of the main unit





1 OPEN

• Eject or hide the TFT screen.

2 (

- Press to answer a call.
- During a call, press and hold to transfer the phone call to mobile phone.

3 ⊙¢

- Press to turn on the system.
- Press and hold to turn of the system.
- Press to confirm an option.
- Press to mute the speakers or release them from mute status.
- Rotate to adjust volume.

(4) BAND

• Select a tuner band.

5 +/-PRESET

- Select a preset radio station.
- Search for track or folder.
- 6 DISP
 - Press to adjust the brightness of screen.
 - Press and hold to turn off the TFT screen.

⑦ ▲ TILT ▼

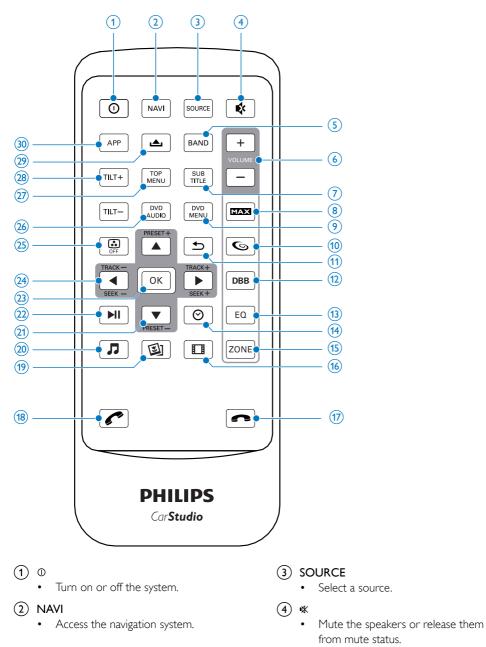
• Adjust tilt of the screen.

- 8 🛓
 - Eject the disc.
- 9 NAVI
 - Press to access the navigation system.
 - Press and hold to open the CarMirror application when an external Mirror Phone Box (not bundled) is connected with the system.

10 AV IN

- Connect to the audio and video output sockets of an external player by a composite AV cable.
- 11 🔺
 - Unlock the front panel.
- 12 🗠
 - Connect to a USB storage device.
 - Connect to a compatible iPod/iPhone.
- (13) LCD screen
- (14) Disc slot
- (15) SOURCE
 - Select a source.
- 16 |◀◀ / ▶▶|
 - Press to skip to the previous/next track.
 - Press and hold to rewind a track or search fast forward.
- 17 🗖
 - Press to hang up a call.
- 18 RESET
 - Reset the system when it hangs up.
- (19) 🗅 🌫
 - Insert an SD/SDHC card.

Overview of the remote control



5 BAND

- Select a tuner band.
- 6 VOLUME +/-
 - Adjust volume.
- ⑦ SUBTITLE
 - Select a subtitle language.
- 8 MAX
 - Enable or disable the MAXSound effect.
- 9 DVD MENU
 - Access the DVD menu.
- 10 6
 - Enable or disable the FullSound effect.
- (1)
 - Return to the previous menu or mode.
- 12 DBB
 - Enable or disable the DBB (Dynamic Bass Boost) sound effect.
- (13) EQ
 - Access audio setting menu.
- (14) ⊙
 - View the clock.
- 15 ZONE
 - Switch a music listening zone.
- 16 🗆
 - Switch to video playback mode.
- 17 🗖
 - Terminate the ongoing call.
- (18) 🥐
 - Answer a call.
 - Dial or redial a number.
- (19) 🖾
 - Switch to picture slideshow mode.
- 20 л
 - Switch to music playback mode.
- 21 ▲/▼
 - Tune to the previous or next preset station.
 - Skip to the previous or next folder.

- For DVD, select a speed for fast backward or forward search.
- Move the cursor up/down.
- 22 ▶11
 - Start play or pause.
- 23 OK
 - Confirm an option.
- 24 ◀/►
 - Skip to the previous or next track, chapter, or file.
 - Move the cursor to left/right.
- 25 🗎
 - Turn on or off the TFT screen.
- 26 DVD AUDIO
 - Select an audio language or audio channel.
- 27 TOP MENU
 - Return to the top menu.
- 28 TILT +/-
 - Adjust the tilt of screen.
- 29 🔺
 - Unlock the front panel.
- 30 APP
 - Open the CarMirror application when an external Mirror Phone Box (not bundled) is connected with the system.

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.

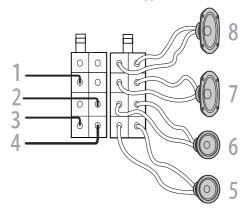
- Note

- 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

Caution

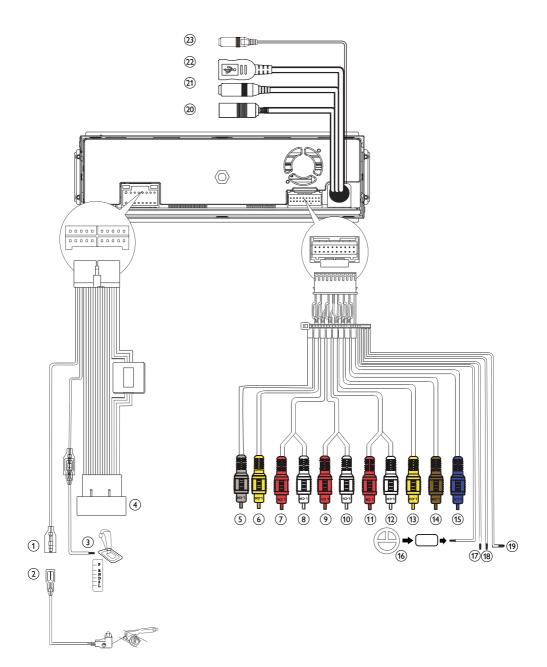
- Make sure that all loose leads are insulated with electrical tape.
- 1 Check the car's wiring carefully, then connect them to the supplied ISO wires.



	Connector	Connect to
1	Yellow wire	The +12V car battery which is live at all times.
2	Blue/White wire	The electric antenna control lead or power supply lead of the antenna booster. If there is no electric antenna or antenna booster; or it is manually operated telescopic antenna, it is unnecessary to connect this lead.
3	Black wire	A metal surface of the car. Connect the black ground (earth) lead before connect the yellow and red power supply leads.

	Connector	Connect to
4	Red wire	The +12V power terminal which is live in the accessory (ACC) position of the ignition switch. If there is no accessory position, connect to the +12V car battery terminal that is always live. Ensure that black ground (earth) lead is connected to a metal surface of the car first.
5	Green and green/black wires	Left speaker (Rear)
6	White and white/black wires	Left speaker (Front)
7	Gray and gray/black wires	Right speaker (Front)
8	Purple and purple/ black wires	Right speaker (Rear)

2 Connect the other end of the supplied standard connector to the car audio system.



	Connector/ Object	Connect to/with
1	Pink wire	Extension wire
2	2.5m extension wire (not included)	Parking brake (-)
3	Purple wire	Reverse camera (B+)
4	ISO wires	Connected in step 1 above
5 6	Gray cable	Center
	Yellow cable	Video out
7	Red cable	Rear line out (Right)
8	White cable	Rear line out (Left)
9	Red cable	Front line out (Right)
10	White cable	Front line out (Left)
11	Red cable	Audio in (Right)
12	White cable	Audio in (Left)
13	Yellow cable	Video in
14	Brown cable	Camera in
15	Blue cable	Sub-woofer
16	Brown wire	OE remote
17	White wire	OE SWC AD Learn Line 1
18	White wire	OE SWC AD Learn Line 2
19	Black wire	OE SWC AD Line Ground
20	Black wire	Radio antenna
21	Black wire	External microphone
22	Black wire	GPS smart antenna
23	Black wire	EXTERNAL BOX CONNECTOR



Caution

 To avoid any accident, the driver must not watch video while driving. This unit is designed to not allow watching moving video while driving. Park your car in a safe place and engage the parking brake before watching moving video.



- · The video blocking system under parking brake not engaged only control the display of this unit, and will not affect the video output through the rear RCA video output.
- · If watch moving video from disc or AV-IN source but parking brake is not properly connected, the video signal will be blocked by the system, and the below display will be shown on TFT.



About the GPS antenna



- Note
- · The GPS antenna is not bundled. Contact your local retailer to purchase it.

Warning

- · Risk of injury: Never install the antenna and its accessories on the airbag cover.
- · Risk of swallowing parts: Keep the antenna and accessories out of the reach of children.

Caution

- · Risk of electromagnetic interference: Do not install the GPS antenna over any sensors or vents.
- · Risk of short circuit, malfunction, or damage to your car navigation system: Do not alter the GPS antenna cable or dismantle the antenna box.
- Risk of poor reception: Use the supplied metal sheet only, and never cut or distort it; do not paint the GPS antenna.
- Risk of damage to the GPS antenna cable: Never pull the antenna cable when you remove the antenna.
- · Risk of scratching your car: The GPS antenna box has a magnet. When you install or remove it, do not drag it on any metal surface.

Connect the GPS antenna

- 1 Connect the GPS antenna to your car navigation system.
- 2 Use the supplied screw to fasten the connectors.

Install the GPS antenna

You can install the signal receptor of GPS antenna:

- On the dashboard cover
- On the back panel of rear-view mirror

- Note

- Make sure that the contact surface that contacts with the metal sheet is free of moisture, dust, grime, oil, and any other dirt.
- If you remove the metal sheet, some adhesive may be left on the contact surface.



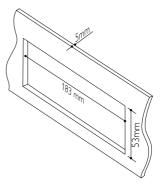


- 1 Remove the protective cover of the metal sheet, and then affix it.
- 2 Affix the antenna box onto the metal sheet.
- Use clamps to secure the antenna cable.

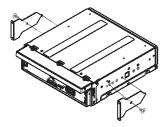
Mount into the dashboard

Note

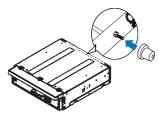
- Check wire connection before you mount the unit into a car.
- If preset radio stations are lost when the ignition key is turned off and then turned on, reconnect the red leads crosswise to the yellow ones.
- If the car does not have an on-board drive or navigation computer, disconnect the negative 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, ensure that the bare wires do not touch each other.
- 2 Ensure that car dashboard opening is within these measurements:



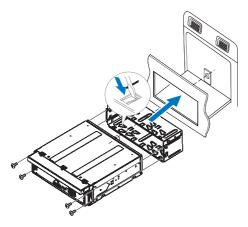
 Since the unit cannot be used if the slant angle of dashboard opening is above 20 degrees, ensure that the horizontal slant of the dashboard opening is between 0 and 20 degrees. **3** When installing in a shallow space, change the position of slide brackets.



4 Place the supplied rubber cushion over the end of the mounting bolt.

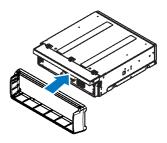


5 Install the sleeve into the dashboard and bend the tabs outwards to fix the sleeve. Slide the unit into the dashboard until you hear a click.

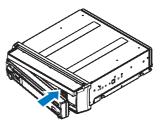


Attach the front panel

1 Attach the trim plate.



- 2 Insert the left side of the panel in the chassis until it is correctly engaged.
- **3** Press the right side of the panel until the mechanism locks it into place.



Detach the front panel

Note

- Before you insert an SD/SDHC card or reset the system, detach the front panel.
- 1 Press 🔺 to release the front panel.
- 2 Pull the front panel outwards to remove it.



• If the unit is fixed by the supplied screws instead of the sleeve, skip this step.

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.

 \mapsto The remote control is ready for use.

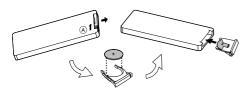
Replace the battery



• 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 🛈 🕸.

To turn off the system, press and hold
 ∞ ♦ for 3 seconds.

For the first time use

After successful boot-up, the TFT screen is ejected with the following interface displayed on.

):28 nitial Settings				
-	Language	עברית	0	English	C
Initial	Country Regior	Deutsch	0	Português	C
	Country Region	Italiano	0	Español	C
		Nederlands	0	繁体中文	C
		Français	0	简体中文	C
				Русский	C

Tap to select a language for on-screen display.
 → The following interface is displayed.

	Initial Settings		
\$	Language	Europe	0
Initial	Radio region	USA	0
		Russia	0
		Latin	0
		Asia	0

- 2 Tap to select a radio region that matches your location.
 - \mapsto The following interface is displayed.

Language	English
Radio region	Europe
	Finish



Tap [Finish] to complete the initial setup.→ The device switches to radio mode automatically.

Use the home menu



 If S 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.

→ The clock, date, and the bar for popular icons are displayed.



- To access the full menu with all feature icons displayed, tap ▲.
- To return to the home m $oldsymbol{
 abla}$.



- **[Radio]**: Switch the source to FM/ AM radio.
- • [Disc]: Switch the source to disc.
- **[USB]**: Switch the source to USB storage device.
- **[SDHC]**: Switch the source to SD/ SDHC card.
- Drice your iPod/iPhone is connected and recognized, this icon is displayed in the bar of favorite icons. Tap it to switch the source back to iPod/iPhone.
- **(Navigation]**: Access the navigation system.

- **I** [Bluetooth]: Use the Bluetooth feature.
- **[AV-IN 1]/[AV-IN 2]**: Switch the
 source to the audio and video input
 that is transferred from an external
 video player.
- **©** [SWC]: Access the interface to assign functions to buttons on the steering wheel.
- **& [Settings]**: Access the system menu.
- Image: Ima

Customize the home menu



- 1
 - Tap and hold an icon until it is movable.
 - 2 Drag it to the target place, and then release your finger.
 - When you move an icon from the bar for popular icons to the lower area, release your finger when the icon's name is displayed.
 - When you move an icon from the lower area to the bar for popular icons, release your finger when the icon's name disappears.
 - **3** Tap \checkmark to return to the home menu.
 - \mapsto The bar for popular icons is refreshed.

Set the date and time

- 1 Tap $\Rightarrow \ge 1$ to access the full menu with all feature icons displayed.
- 2 Tap ♥ [Settings].
 - → The [General]menu is displayed.

	Radio region	Europe
at	Beep	On
	Language	English
kon	Calibration	Enter
	Clock mode	12 hr

- **3** Tap **[Clock Mode]** to select a time format.
 - [24Hr]: 24-hour time format
 - [12Hr]: 12-hour time format
- 4 Tap [Date] to display the interface for setting the date.

0
T

- 5 Tap $\blacktriangle \lor$ to set the year, month, and date.
- **6** Tap **[Time]** to display the interface for setting the time.

Clock mode		1	2hr
Date			
Time	10		15
Parking	•		

7 Tap $\blacktriangle \lor$ to set the hour and minute. 8 Tap \backsim to return to the home menu.

Adjust the screen brightness

- **1** Press **OPEN** to eject the TFT screen.
- 2 Press Burn on the screen frame to select a brightness level ([Level 1], [Level 2], or [Level 3]).
 - To turn of the screen, press and hold
 - To turn on the screen, press disp again, or tap the screen.

Switch display designs

Select a preset display design.

- 1 In any mode, tap ≡, and then [Display Design].
 - → The [Display Design]interface is displayed.



- 2 Tap a setting to display the options.
 - [Wallpaper]: Select a wallpaper.
 - [Visualizer]: Select a motional visualization effect.
 - [Skin]: Select a background color for on-screen icons.
 - [Backlight]: Select a color style of the display on the LCD screen.
- **3** Tap an option to select it.
- 4 Tap **s** to return to the previous mode.

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, USB storage device, or SD/SDHC card.

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.



- 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 \blacktriangleright to start play.
- 2 To eject the disc, press ▲.
 - → When the disc is ejected, the system switches to the previous source or radio mode

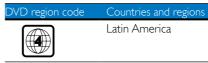
Region code

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



Note

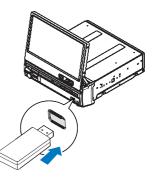
 Supported region code depends on where you bought the car audio system.



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.



- Push the USB socket cover upwards to open it.
- 2 Connect the USB storage device to the USB socket.
 - → Play starts automatically.
 - To remove the USB storage device, switch the system to another source first

Insert an SD/SDHC card

- Note

- Make sure that the SD/SDHC card contains compatible files.
- NTFS (New Technology File System) file system is not supported.



- 1 Detach the front panel.
- 2 Insert the SD/SDHC card into the D₅→ slot until you hear a "click".
 - → Play starts automatically.
- **3** Attach the front panel.

Remove the SD/SDHC card

- 1 Switch the system to another source, and then detach the front panel.
- Press the card inwards until you hear a "click".
 → The card is disengaged.
- **3** Pull out the SD/SDHC card.

Control play

Videos



- 🔿 : Return to the home menu.
- 👂 : Zoom in or out of the image.
- Description: Select an available audio channel or audio language.
-: : Select an available subtitle.
- 8
 - For DVD, return to the disc menu or root menu.
 - For recorded files, return to the list of files or folders. (see 'Browse recorded files' on page 20)
- PBC: For VCD/SVCD only, enable or disable the PBC (Playback Control) feature.
- I◀◀ / ▶▶I : Skip to the previous or next title, chapter, track, or file.
 - To search forward fast or rewind the track, tap on the progress bar.
- II / ► : Start, pause, or resume play.
- • : Display control icons on the second page.



- 🗘 : Select a repeat mode.
 - DVD: [Rep: chapter] (repeat the current chapter), [Rep: title] (repeat the current title), [Rep:all] (repeat all chapters and titles), or [Rep:off] (cancel repeat play).
 - VCD/SVCD: [Rep: one] (repeat the current track) or [Rep:all] (repeat all tracks).
 - Recorded files: **[Rep: one]** (repeat the current video file), **[Repeat folder]** (repeat all video files in the current folder), or **[Rep:all]** (repeat all video files).
- [16:9]/[4:3]: Select an aspect ratio.
- * : Tap to display the brightness bar, and then tap on the bar to adjust the screen brightness.

- • Tap to display the contrast bar, and then tap on the bar to adjust the image contrast.
- Tap to display the saturation bar, and then tap on the bar to adjust the image saturation.
- • Display control icons on the first page.

Audios



- ♠ : Return to the home menu.
- •
 - Press once to access the track list.
 - Press twice to access the folder list.
 - Press repeatedly to return to the playback interface.
- d : For recorded files only, skip to the next audio folder.
- ■: Return to the list of tracks or folders (see 'Browse recorded files' on page 20).
- I◀◀ / ▶▶I : Skip to the previous or next track.
 - To search forward fast or rewind the track, tap on the progress bar.
- II / ► : Start, pause, or resume play.
- C) / C) / C) : Select a repeat mode.
 - 🗘 : Repeat the current track.
 - CD : For recorded files, repeat all tracks in the current folder.
 - C> (highlighted): Repeat all tracks.

Pictures



- 🔒 : Return to the home menu.
- Ø : Zoom in or out of the picture.
- Control c
- ■ / : Return to the list of files or folders (see 'Browse recorded files' on page 20).
- I◀ / ►I : Select the previous or next picture.
- ■ / ► : Pause or resume the slideshow.
- O : Display control icons on the second page.



- [16:9]/[4:3]: Select an aspect ratio.
- * :Tap to display the brightness bar, and then tap on the bar to adjust the screen brightness.
- • Tap to display the contrast bar, and then tap on the bar to adjust the image contrast.
- Tap to display the saturation bar, and tap on the bar to adjust the image saturation.
- •• : Display control icons on the first page.

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.

†	9:28 SD card/Natural SD card/	*8 =
Л	🛃 Image 01	1
	🗷 Bird	
	Dancing girl	
	🗷 Cedar	
	Communications image	J

- 2 Tap an icon to select a file category.
 - J : Display the list of audio tracks or folders.
 - Solution State is 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.

About DivX® videos

DivX® video is a digital media format that retains high quality despite of a high compression rate. You can play DivX® VOD (Video-on-Demand) videos that are rented or purchased from online stores. You can also play non-VOD DivX videos.

Play DivX VOD videos

To play DivX® VOD videos on this product, you need the DivX® VOD code on this product, the DivX Player installed on your computer, and a free DivX Account.

Find the DivX VOD code on your product.

- 1 Tap $\Rightarrow \ge 1$ to access the full menu with all feature icons displayed.
- 2 Tap ***** [Settings] to access the system setup menus.
- 3 Tap [Info] to access the [Info] menu.
- 4 Tap [DivX(R) VOD] to display the registration code.



- If no DivX Player is installed on your computer, download it from www.divx.com for free.
- If you have no DivX Account, create one for free through DivX Player that is installed on your computer:

On your computer through DivX Player

- 1 With the DivX® VOD code, register this product under your DivX Account.
 - After the registration, previous videos that you rented or purchased with the same DivX Account can be played on this product.
- 2 Rent or purchase DivX® VOD videos with your DivX Account.
- 3 Transfer the DivX®VOD videos to a supported recordable disc.

On your product

Play the DivX® VOD videos from the disc.

- Note

• Go to www.divx.com to learn more about downloading and playing DivX videos.

Play non-VOD DivX videos

- **1** Transfer the videos and subtitle files onto a supported recordable disc, USB storage device, or SD/SDHC card.
- 2 Play the video files from the disc, USB storage device, or SD/SDHC card.

- Note

- To play a DivX DRM protected file, transfer it to a compatible disc first.
- The subtitle filename has to be the same as the filename of the DivX video (the file extension excluded).
- The DivX video file and its subtitle file must be saved under the same directory.
- This product supports subtitle files in the following formats: .srt and .sub.

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 \cong [Radio] on the home menu.

→ The interface for radio is displayed.



Set up

Before you search for radio stations, make prior setup.

Tap \equiv to display the setup menus.



Select a radio range

1 Tap [Radio Range].



- 2 Tap [Distance] or [Local] to select a tuner sensitivity.
 - [Distance]: Stations with strong and weak signals can be tuned to.
 - **[Local]**: Only stations with strong signals can be tuned to.

Enable the RDS feature

- Note

- RDS feature is enabled by default.
- Only after the RDS feature is enabled, the options of [PTY list] and [RDS Clock] are displayed.

Tap to select [RDS ON].

- → The option of **[PTY list]** is displayed.
- To disable the RDS feature, tap to select **[RDS OFF]**.

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 < or > repeatedly until the frequency of target radio station is displayed.
 - To tune to a radio station automatically, tap and hold < or > until the frequency digits start change.

🔆 Тір

• 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

- 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



- Tap ≡ > [PTY list] 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

ltem	Program type	Description
1	NEWS	News services
2	AFFAIRS	Politics and current
		affairs
3	INFO	Special information
		programs
4	SPORT	Sports
5	EDUCATE	Education and advanced
		training
6	DRAMA	Radio plays and literature
7	CULTURE	Culture, religion and
		society
8	SCIENCE	Science

9	VARIED	Entertainment programs
10	POP M	Pop music
11	ROCK M	Rock music
12	MOR M	Light music
13	LIGHT M	Light classical music
14	CLASSICS	Classical music
15	OTHER M	Special music programs
16	WEATHER	Weather
17	FINANCE	Finance
18	CHILDREN	Children's programs
19	SOCIAL	Social Affairs
20	RELIGION	Religion
21	PHONE IN	Phone In
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 \mathbf{AF} to enable or disable the AF function.

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

Synchronize the clock automatically

Tap \equiv > [RDS Clock].

- If [RDS Clock] is selected, the automatic clock synchronization is enabled. When you tune to an RDS station that transmits time signals, the system clock will be synchronized automatically.
- If **[RDS Clock]** is deselected, the automatic clock synchronization is disabled.

7 Use the navigation system

Insert the map data card

- Note

- The map data card is not included in the packaging.
- Before using the map data card, update the map data if necessary.
- **1** Press **OPEN** to eject the TFT screen.
- 2 Detach the front panel.
- **3** Open the protective lid under the TFT screen.
- 4 Insert the map card into the map card slot.

Navigate your road trip

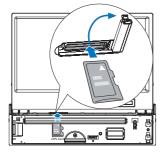


 Risk of traffic accident! Never operate the navigation system during drive. Complete the setting of your destination and other navigation specifications before you drive.

Press NAVI

1

- → The navigation interface is displayed in a few seconds.
- 2 Follow the user manual of the navigation map to set navigation specifications.



5 Close the protective lid.6 Attach the front panel.

8 Use Bluetooth devices

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

Activate the Bluetooth function

- On the home menu, tap **0**.
- In any other mode, tap ¥⊒ on top of the screen.

Pair a device



- WOOX 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.

Pair the first device

- 1 Activate the Bluetooth function on this system.
 - → The following interface is displayed.



2 Tap Q to search for other Bluetooth devices.



3 In the device list, tap the name of your Bluetooth device, and then tap - behind the name.



- → The paring starts, and then a pairing request from CED781 is displayed on your device.
- 4 On your device, accept the pairing request from CED781, enter the default password '0000', and then confirm the password entry.
 - → [Paired OK!] flashes, and then [Connecting] is displayed on this system.
- 5 On your device, enable or permit the connection with CED781.
 - If a player is connected, the music playback interface is displayed on this system.



rap it to return to the music playback interface.

III : Tap it to display the list of paired mobile phones.

u: Tap it to display the list of paired mobile phones.

♥ : Tap it to display the list of paired mobile phones.

• If a mobile phone is connected, the keypad is displayed on this system.



n :Tap it to display the list of paired players.

III : Tap it to display the on-screen keypad for phone calls.

I: Tap it to display the phone book that is synchronized with your mobile phone and keypad.

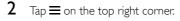
ullet :Tap it to display the list of favorite contacts.

Pair more devices

- 1 Activate the Bluetooth function on this system.
 - → One of the following interfaces is displayed.









- **3** Tap **[New Pairing]** to start searching for Bluetooth devices.
- **4** Repeat steps 3 to 5 that are indicated in the above section "Pair the first device (see 'Pair the first device' on page 26)" to complete the connection.

- Note

• You can connect a music player and a mobile phone simultaneously.

Manage paired devices

- 1 Activate the Bluetooth function.
- 2 Tap 🎜 or 🏛
 - To manage paired players, tap **.**
 - To manage paired mobile phones, tap
- **3** Tap \equiv on the top right corner.



4 Tap [Paired Device].

→ The list of paired devices is displayed.



- 5 Tap the name of the paired device that you want to reconnect, disconnect, or delete.

 - *Imp* :Tap to disconnect the device.
 - Tap to delete the device from the list of paired devices.

🔆 Тір

 If you want to manually reconnect a device after the connection is interrupted, disable the function of automatic connection.

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 \boldsymbol{n} to display the music playback interface.



- **3** Tap icons on the interface to control play.
 - ►II: Pause or resume play.
 - I ◀ ◀ / ▶▶I : Select the previous or next track.



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

Make a call



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

Call a number

You can make phone calls with the system.

- 1 Tap ¥⊟ on top of the screen.
 - → The keypad is displayed.
 - If the keypad is not displayed, tap 🎹

Л	9-28 Bluetooth	Nokia E52		
	1	2 ABC	3 DEF	H-
-	4 бні	5 jkl	6 мно	×
N ²	7 PORS	8 TUV	9 wxyz	
۷	*	0 +	#	

- 2 Tap number icons to enter the phone number.
 - To clear the last digit, tap ⊯.
 - To clear all digits, tap X.
 - To return to the previous screen, tap <u></u>
- **3** Tap \leftarrow to send the call.

 - 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



- 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 C 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.

Use the on-screen phone book

- 1 Tap 🗳 to display the phone book interface.
 - Tap **[Sync]** to start synchronizing the phone book with your mobile phone.
 - → [Synchronizing...] is displayed.
 - → After the synchronization is complete, the contact list is displayed.

î .		I Phonebook		
Л	Q			*
	Fionna Chan	1	2 ABC	3 DEF
	13510294812	4 сні	5 JKL	6 MNO
5	98798790	7 PQRS	8 TUV	9 WXYZ
	82287907	*	0 +	×
	15462212112	Syn	с	-

3 Tap the name of a contact from the list, and then tap ← to send a call.

Manage the phone book

- 1 Tap the name of a contact from the list.
- 2 Tap **X**.

2

- → The following options are displayed.
- [Delete One]: Delete the selected contact.
- [Delete All]: Delete all contacts.
- [Cancel]: Return to the phone book interface.
- **3** Tap one of the options and confirm.

Search for a contact

Tap the alphanumeric icons to enter the keyword.

- To enter the first letter displayed on the icon, tap it once.
- To switch between letters and the digit, tap an icon briefly and repeatedly.
- To delete the last input, tap I←.
 - → The system searches for contacts whose name include the keyword.
 - → If no contact is found, [No Match] is displayed.



• Up to 5 characters can be entered as the keyword.

Edit the favorite call list

Save the number of a contact into the favorite call list, and then you can send a call quickly.

ft -	:28 luetooth iPhone 4 Favorite Ca	
8	2456 6789	
	9876 5432	
	9674 3625	
~	9488 8849	
•	2345 6543	

- 1 Tap \checkmark to display the favorite call list.
- 2 Tap *e* behind a sequence number.
 3 Enter the number and then tap OI
- **3** Enter the number and then tap **OK** to confirm.
 - → The number is saved.
 - To send a call, tap the number from the list.

9 Play from an iPod/iPhone

Note

• During play, no audio signals are transferred through the headphone socket of your iPod/iPhone.

Compatible iPod/iPhone models

This system supports the following iPod and iPhone models.

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

Connect your iPod/iPhone



Connect an Apple USB cable between

- the USB socket on the front panel of this system, and
- your iPod/iPhone.
 - → The system starts playing tracks that are stored on your iPod/iPhone.



 Once your iPod/iPhone is connected and recognized, I is displayed in the bar of popular icons on the home menu. You can tap it to switch back to this playback interface.

Note

 Before you disconnect your iPod/iPhone, switch the system to another source.

Control play

By default, use the on-screen playback interface of this system to control play.

- II : Tap to pause play.
- ► :Tap to resume play.
- I◀◀ / ▶▶I : Tap to play the previous or next track.
- C> / C> : Tap to select a repeat mode.
 - **cb** : Repeat the current track.
 - C> (highlighted): Repeat all tracks.
 - C> (in gray): Cancel repeat play.
- ∽ :Tap to select a play mode.
 - 🗯 (highlighted): Play tracks randomly.
 - 🗯 (in gray): Play tracks in sequence.
- B= :Tap to switch to the iPod control mode, and then you can control play on your iPod/iPhone.
- Tap to switch back to the on-screen control mode, and then you can control play on this system.

Search for a track

You can select a track quickly through the music menu.

1 Tap \blacksquare to access the music menu.

=	Playlists	
*	Artists	
0	Albums	
л	Songs	
6	Genres	
S	Composers	
Đ	Audio Books	

- 2 Tap to select a category.
 - → Tracks under the selected category are listed.
- **3** Tap a track name to start play.
 - If one or more subcategories are under the selected category, select a category first.

Charge your iPod/iPhone

Once the iPod/iPhone is connected and recognized, the iPod/iPhone begins to charge.

10 Use the CarMirror application

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.



Note

- Make sure that the external Mirror Phone Box (not bundled) is properly connected to CED781.
- Make sure that the CarMirror application is properly installed on your smart phone.

- **1** Follow the "**Getting Started**" (Getting Started) instructions on the CarMirror application to complete the initial startup.
- 2 Tap **I** on the home menu to open the CarMirror application.

11 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.

12 Adjust sound

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

Adjust the volume level

Rotate 🛛 🕸.

- Clockwise: Increase the volume level.
- Anti-clockwise: Decrease the volume level.

Mute sound

Press ⊙ ♦ on the front panel.

• To release the speakers from mute status, press ⊙ ♦ again.

Enable the MAX Sound effect

Tap **MAX** on the playback interface.

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

Enable the DBB sound effect

When DBB (Dynamic Bass Boost) is enabled, low tones are enhanced electronically. Tap on the playback interface.

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

Enable the FullSound effect

- Note

• This feature is unavailable when you listen to radio.

Philips FullSound restores the audio details that are lost due to compression. It enriches the music signals so that what you hear is the full sound with every nuance of emotion and every detail of musical genius.

Philips FullSound can:

- bring out CD sound quality from an MP3 track,
- achieve richer bass with greater depth and impact,
- restore the sense of spaciousness that lacks in a compressed audio, and
- enhance sound precision and details.

Tap 👁 on the playback interface.

- **(highlighted):**The FullSound effect is enabled.
- 🕒 (in gray):The FullSound effect is disabled.

Select a preset sound equalizer

- **1** Tap **III** on the playback interface.
 - → The current equalizer settings are displayed.



- 2 Tap < or > to select a preset sound equalizer.
 - [Custom], [Techno], [Rock], [Classic], [Jazz], [Optimal], [Flat], or [Pop]
 - → The selected sound equalizer is highlighted.

- **3** Tap on the circle or bar to adjust the settings.
 - **[Bass]**: bass range (-14 to +14)
 - [Middle]: middle range (-14 to +14)
 - [Treble]: treble range (-14 to +14)
 - [LPF]: low pass filter range (60 Hz, 80 Hz, 100 Hz, or 160 Hz)
 - [MPF]: middle pass filter range (0.5 kHz, 1.0 kHz, 1.5 kHz, or 2.5 kHz)
 - [HPF]: high pass filter range (10.0 kHz, 12.5 kHz, 15.0 kHz, or 17.5 kHz)
 - **c** :Tap and hold to restore the settings.
- 4 Tap **s** to exit.

Others

Tap ▶◀ on the playback interface.

 \mapsto The setup interface is displayed.



- • Tap to display the [Music Zone] interface for selecting a listening zone.
- (1): "Tap to display the [Fader] / [Balance] interface for adjusting the fader and balance.
- () Tap to display the [Subwoofer] interface for setting the sub-woofer.

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).
- [Delay]: Set the delay time for each speaker.

Set the sub-woofer



- **[On]/[Off]**: Tap to turn on or off the subwoofer.
- + / : Tap to set the volume of subwoofer (0 dB to 14 dB).
- [80 Hz]/[120 Hz]/[160 Hz]: Tap to select a low pass filter range for the sub-woofer.

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 point to switch the listening zone.→ The highlighted area indicates the current listening zone.



13 Adjust settings

Access system setup menus

1 Tap $\Rightarrow \ge$ to display all feature icons.



2 Tap ♥ [Settings]. → The [General] menu is displayed.

	Settings General	
*	Radio region	Europe
Wrat .	Веер	On
10	Language	English
ation	Calibration	Enter
3	Clock mode	12 hr

- **3** Tap an icon on the left.
 - **\$** : Access the **[General]** menu to adjust general settings.
 - **O** : Access the **[Info]** menu to view system information.
 - • Access the **[Navigation]** menu to adjust navigation settings.
 - S: Access the [Bluetooth] menu to adjust Bluetooth settings.
- 4 Swipe your finger up or down to view more settings.
- **5** Tap an option to view details or change the setting.
 - To exit the menu, tap **\$**.

Adjust general settings

	Radio region	Europe
Mal	Веер	On
*0	Language	English
pation	Calibration	Enter
3	Clock mode	12 hr

Settings	Options	Description
[Radio		Select a radio
- Region]		region that matches
		your location.
[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.
[Language]		Select an OSD
		(on-screen display)
		language.
[Calibration]		Follow the on-
		screen instructions
		to calibrate the
		touch screen.
[Clock	[12Hr] /	Select a time
Mode]	[24Hr]	format.
[Date]		Set the date.
[Time]		Set the time.
[Parking]	[On] / [Off]	Enable or disable
		the video blocking
		system.
[Demo]	[On] / [Off]	Enable it to
(Auto start		demonstrate
after power		features after the
off)		system is power off.
[Dimmer]	[Level 1]/	Select a brightness
	[Level 2]/	level of the TFT
	[Level 3]	screen.

View system information

ft -			
*	ARM version	F0318-2.0.20 MIRROR	
General	Servo version	13-08-28 SV781 V01	
Info	MCU version	CED781 201402226 1A1	
Nevigation	Bluetooth MAC Bluetooth version	10:43:69:00:54:39 PH-V110B098-A02	
Eluetooth.	DVD regions	0	

Settings	Options
[ARM	View firmware versions.
Version]	
[Servo	
version]	
[MCU	
Version]	
[Bluetooth	View the MAC address of
MAC]	CED781.
[Bluetooth	View the version of Bluetooth.
version]	
[DVD	View the DVD region code that
regions]	the system supports.
[DivX(R)	View the DivX registration code.
VOD]	
[Restore	Tap to display the dialog box for
factory	restoring the system.
defaults]	• Tap [Yes] to restore the system
	to factory default status.
	 Tap [No] to return to the
	previous menu.

Adjust Navigation settings



- [Navigation Program Path]: Tap [Enter] to access the Navigation Program Path mode.
- [Navigation Voice]: Tap [Enter] to display the [Navigation Voice] interface.

3.0	All	2	011	a	Voice Leve
	子	0.0		0	+
	Front	9	Front	6	

- [All]/[Front left]/[Font right]: Select a zone for navigation voice.
- [Off]: Mute the navigation voice.
- [Voice level]: Tap +/- to adjust the volume of navigation voice.

Adjust Bluetooth settings

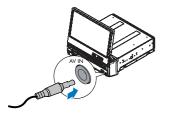
ft -			
\$	New pairing	Enter	1
General	Auto connect	On	
Hto A	Auto answer	Off	
Nexistion	Pin code	0000	
Bluetooth	Device Name	CED781	

Bluetooth settings	Options	Description
[New Pairing]		Search for new devices.
[Auto Connect]	[On]	When a paired device is within effective range, the system reconnects with the device automatically.
	[Off]	Reconnect manually.
[Auto Answer]	[On]	Answer phone calls automatically when the paired mobile phone receives an incoming call.
	[Off]	Answer phone calls manually.
[Pin Code]		Set the password for pairing the car entertainment system with another Bluetooth device. The default password is 0000 .
[Device Name]	CED781	The name of this system as a Bluetooth device

14 Others

Play external audio/video input

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



- 1 Connect a composite AV cable between
 - the AV IN socket on the front panel, and
 - the audio and video output sockets of the external player.
- 2 Tap A > ▲ to access the full menu with all feature icons displayed.
- 3 Tap ♥ [AV-IN 1] to display the playback interface.
- 4 Operate on the external player to start play (see the user manual of the external device).

🔆 Тір

 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 ♀ [AV-IN 2] to switch the source instead of ♀ [AV-IN 1].

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 $\Rightarrow \ge 1$ to access the full menu with all feature icons displayed.
- **2** Tap ©.
 - → The [Steering Wheel Remote Control Learning] interface is displayed.



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



4

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



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

Set the rear view camera

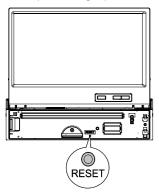
If a rear view camera is connected, you can view on the screen what the camera takes

- 1 Tap \Rightarrow > \blacktriangle to access the full menu with all feature icons displayed.
- 2 Tap • (the icon is displayed only when a compatible camera is correctly connected). → Picture from rear camera is displayed.



Reset the system

If the system hangs up, reset it.

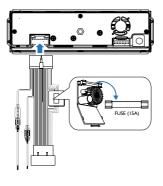


- Detach the front panel.
- 2 Press **RESET** with the tip of a ball-point pen or toothpick.

Replace the 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 is replaced, there may be an internal malfunction. 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

- 1 Go to www.philips.com/welcome.
- 2 Click the link of "Register my product" (the exact wording of this link name may vary in different languages).
- 3 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.
- 4 Search your product with "CED781/55" as the keyword.
- 5 Click the link of search result to access the Web page for registering your product.
- 6 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

- 1 Check the current firmware version of this system (see 'View system information' on page 38).
- 2 Go to 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 "Installation instructions" under "Software & drivers" (the exact wording of link names 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.

15 Product information

Note

• Product information is subject to change without prior notice.

Specifications

General

Power supply	12 V DC (11 V - 16 V),
	negative ground
Fuse	15 A
Suitable speaker	4 - 8 Ω
impedance	
Maximum power	50 W x 4 channels
output	
Continuous power	$24 \text{ W} \times 4$ channels (4 Ω
output	10% T.H.D.)
Pre-Amp output	2.0 V (CD play mode;
voltage	1 kHz, 0 dB, 10 k Ω load)
Subwoofer output	2.0 V (CD play mode,
voltage	61 Hz, 0 dB, 10 k Ω load)
Aux-in level	≥ 500 mV
Dimensions	
$(W \times H \times D)$	178 x 50 x 210 mm
Weight (main unit)	3.1 kg

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
	(50 kHz per step)
Frequency range -	530 - 1710 kHz
AM(MW)	(9 kHz per step)
Usable sensitivity - FM	5 uV
Usable sensitivity - AM	25 uV
(MW)	

LCD

-	
Screen size	7.0 inches
Display resolution	800 × 480 dots
Contrast ratio	500
Brightness	450 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 Transmit	SBC (Sub Band Codec) SBC (Sub Band Codec)

GPS antenna

Antenna	Build-in ceramic
	patch antenna
Supplying voltage	50 ± 0.2∨
Operating temperature	-20 ~ +70
Cold start	28 s (typical), <50 s
Hot start	1 s (typical), <3 s
Acquistion sensitivity	-141 dBm (typical)
Navigation sensitivity	-158 dBm (typical)
Tracking sensitivity	-158 dBm (typical)
Antenna cable length	3.0 m
Dimensions of antenna	50 x 40 x 16 mm
box (W x H x D)	

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/SDHC)
- Maximum capacity: 32 G

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, 44.1kHz, 48 kHz
- Supported Bit-rates: 32-320 Kbps and variable bit rate

Supported video formats:

- DVD
- Divx

- Note

• To ensure a better playback, it is recommended that file image size is no higher than 640 × 480, frame rate is 20 fps, data rate is no higher than 500 kbps.

16 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 device, check the following points before requesting service. If the problem remains unsolved, go to the Philips Web page (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.
- The disc rating exceeds the preset restriction. Change the rating setting.

Cannot play DivX file from an SD/SDHC card or USB storage device

 DivX DRM protected files cannot be played if they are saved on an SD/SDHC card or USB storage device.Transfer it to a compatible disc instead.

No image

• Parking wire connection is incorrect. Check the wiring.

No image on rear monitor

 A DivX video can be played for front passengers only.

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.
- Change the radio broadcast from stereo to mono.

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.

17 Notice

Any changes or modifications made to this device that are not expressly approved by WOOX 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. 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 for additional information on a recycling center in your area.

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.

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DIVX

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