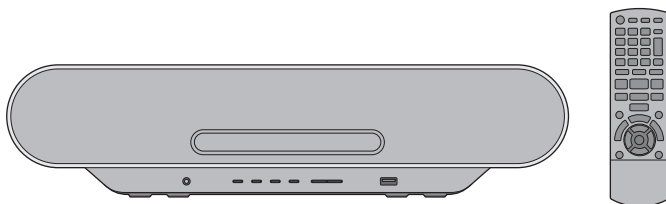


Panasonic®

Operating Instructions Compact Stereo System

Model No. SC-ALL7CD



Thank you for purchasing this product.

Please read these instructions carefully before using this product,
and save this manual for future use.

Model number suffix "EB" denotes UK model.

EG **EB** **GN**

RQT0A83-B

Legal notice

Recording and playback of content on this (or any other) device may require permission from the copyright owner. Panasonic has no authority to and does not grant you that permission and explicitly disclaims any right, ability or intention to obtain such permission on your behalf. It is your responsibility to ensure that your use of this or any other device complies with applicable copyright law in your country.

Caution for AC Mains Lead

(For the AC mains plug of three pins)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

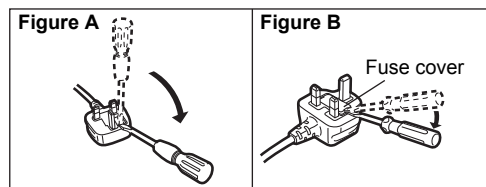
Before use

Remove the connector cover.

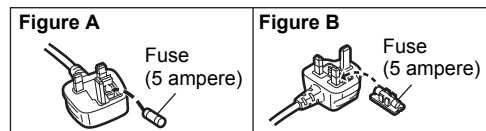
How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below. Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



2. Replace the fuse and close or attach the fuse cover.



Safety precautions

WARNING

Unit

- To reduce the risk of fire, electric shock or product damage,
 - Do not expose this unit to rain, moisture, dripping or splashing.
 - Do not place objects filled with liquids, such as vases, on this unit.
 - Use only the recommended accessories.
 - Do not remove covers.
 - Do not repair this unit by yourself. Refer servicing to qualified service personnel.
 - Do not let metal objects fall inside this unit.
 - Do not place heavy items on this unit.

AC mains lead

- To reduce the risk of fire, electric shock or product damage,
 - Ensure that the power supply voltage corresponds to the voltage printed on this unit.
 - Insert the mains plug fully into the socket outlet.
 - Do not pull, bend, or place heavy items on the lead.
 - Do not handle the plug with wet hands.
 - Hold onto the mains plug body when disconnecting the plug.
 - Do not use a damaged mains plug or socket outlet.
- The mains plug is the disconnecting device.
Install this unit so that the mains plug can be unplugged from the socket outlet immediately.

CAUTION

Unit

- This unit utilizes a laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Do not place sources of naked flames, such as lighted candles, on this unit.
- This unit may receive radio interference caused by mobile telephones during use. If such interference occurs, please increase separation between this unit and the mobile telephone.
- This unit is intended for use in moderate climates.

Placement

- Place this unit on an even surface.
- To reduce the risk of fire, electric shock or product damage,
 - Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure this unit is well ventilated.
 - Do not obstruct this unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.
 - Do not expose this unit to direct sunlight, high temperatures, high humidity, and excessive vibration.

Battery

- Danger of explosion if battery is incorrectly replaced. Replace only with the type recommended by the manufacturer.
- Mishandling of batteries can cause electrolyte leakage and may cause a fire.
 - Remove the battery if you do not intend to use the remote control for a long period of time. Store in a cool, dark place.
 - Do not heat or expose to flame.
 - Do not leave the battery(ies) in a car exposed to direct sunlight for a long period of time with doors and windows closed.
 - Do not take apart or short circuit.
 - Do not recharge alkaline or manganese batteries.
 - Do not use batteries if the covering has been peeled off.
- When disposing of the batteries, please contact your local authorities or dealer and ask for the correct method of disposal.

Product Identification Marking is located on the bottom of the unit.

Accessories

Check the supplied accessories before using this unit.

- ☐ **1 Remote control**
(N2QAYB001075)
- ☐ **1 Battery for remote control**
- ☐ (For the United Kingdom and Ireland)
1 AC mains lead
(K2CT2YY00097)
- ☐ (For Continental Europe)
1 AC mains lead
(K2CQ2YY00136)
- ☐ (For Australia and New Zealand)
1 AC mains lead
(K2CJ2YY00101)
- ☐ **1 DAB indoor antenna**
(RFA3669)



- Do not use AC mains lead with other equipment.
- Product numbers provided in these operating instructions are correct as of February 2016. These may be subject to change.

About descriptions in these operating instructions

- Pages to be referred to are indicated as "→ ○○".
- Unless otherwise indicated, operations are described using the remote control. You can also use the controls on this unit if they are the same.

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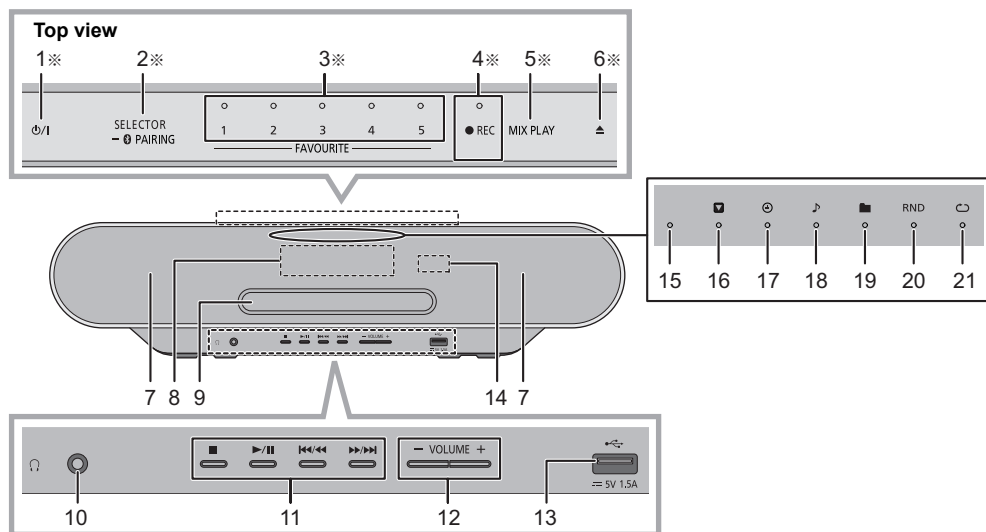
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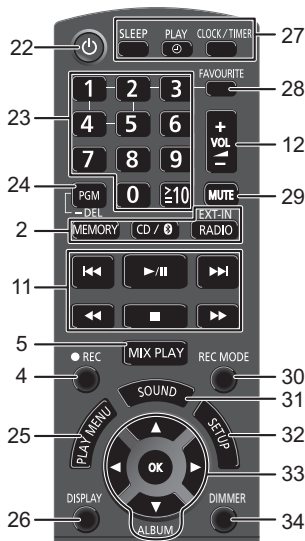
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Control reference guide



- 1 **Standby/on switch (⏻)**
Touch to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
- 2 **Select the audio source**
On this unit:
 "CD" → "MEMORY" → "DAB+" → "FM"
 ↑
 "NETWORK" ← "BLUETOOTH" ← "USB"
 • Touch and hold to enter pairing mode (→ 13) or disconnect a Bluetooth® device (→ 13).
 On the remote control:
 [MEMORY]: "MEMORY"
 [CD/Ⓢ]: "CD" ↔ "BLUETOOTH"
 [RADIO, EXT-IN]: "DAB+" → "FM" → "USB"
 ↑
 "NETWORK" ←
- 3 **FAVOURITE buttons and indicators for favourite play / storing or selecting radio station ([1] to [5]) (→ 12, 15, 17, 18)**
- 4 **This unit: Record button and indicator (→ 20)**
Remote control: Record button (→ 20)
- 5 **Start one-touch mix play (→ 15)**
- 6 **Open or close the disc tray**
- 7 **Speakers**
 - These speakers do not have magnetic shielding. Do not place them near a TV, personal computer or other magnetic devices.
- 8 **Display**
- 9 **Disc tray**
 - Do not put any object in front of the disc tray.
- 10 **Headphones jack (🎧)**
 - Plug type: 3.5 mm stereo (not supplied)
 - Avoid listening for prolonged periods of time to prevent hearing damage.
 - Excessive sound pressure from earphones and headphones can cause hearing loss.
 - Listening at full volume for long periods may damage the user's ears.
- 11 **Basic playback control**
- 12 **Adjust the volume (0 (min) to 50 (max))**
- 13 **USB port (→ 6)**
- 14 **Remote control signal sensor**
Distance: Within approx. 7 m directly in front
Angle: Approx. 30° left and right
- 15 **Network indicator**
- 16 **📶: Secondary service indicator**
- 17 **⏮: Play timer indicator**
- 18 **🎵: Track indicator**
- 19 **📀: Album indicator**
- 20 **"RND": Random indicator**
- 21 **🔄: Repeat indicator**
- 22 **Turn the unit on or off**
- 23 **Select number**
 - To select a 2-digit number
Example: 16: [≥10] → [1] → [6]
 - To select a 3-digit number
Example: 124: [≥10] → [≥10] → [1] → [2] → [4]



24 Set the programme function / Delete a programmed track

25 Set the play menu item

26 Change the displayed information

27 Clock and timer operation

28 Set favourite play (→ 15)

29 Mute the sound

Press again to cancel. "Mute" is also cancelled when the volume is adjusted or the unit is turned off.

30 Select recording mode (→ 20)

31 Enter sound menu

32 Enter setup menu

33 Selection/OK

34 Dim the display panel and indicators

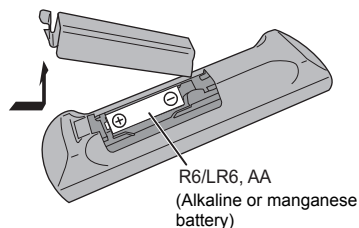
Press again to cancel.

※ These switches work just by touching the marks. Each time you touch the switch, there will be a beep sound. The beep sound can be set to off. (→ 24)

- To avoid operating these switches unintentionally when moving the unit, turn the unit off before moving it.

Using the remote control

Insert the battery so the terminals (+ and -) match those in the remote control.

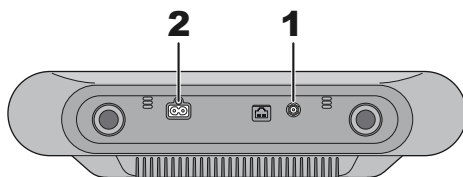


Point it at the remote control signal sensor on this unit.

- To avoid interference, please do not put any objects in front of signal sensor.

Connections

Connect the AC mains lead after all other connections are completed.

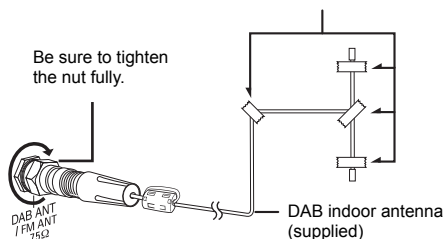


1 Connect the antenna.

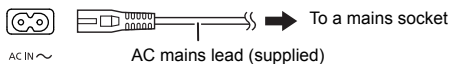
This unit can receive DAB/DAB+ and FM stations with the DAB antenna.

- Tape the antenna to a wall or column in a position with the least amount of interference.
- If radio reception is poor, use a DAB outdoor antenna (not supplied).

Adhesive tape (not supplied)



2 Connect the AC mains lead.



This unit consumes a small amount of AC power (→ 30) even when turned off.

- In the interest of energy conservation, if you will not be using this unit for an extended period of time, unplug it from the mains socket.
- Some settings will be lost after you disconnect the system. You have to set them again.

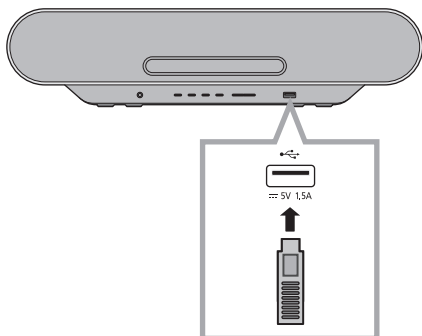
Inserting media

Inserting a disc

- 1 Touch [▲] on this unit to open the disc tray.
- 2 Put in a disc with the label facing up.
- 3 Touch [▲] again to close the disc tray.

Connecting a USB device

Insert the USB device directly. Do not use any USB extension cable.

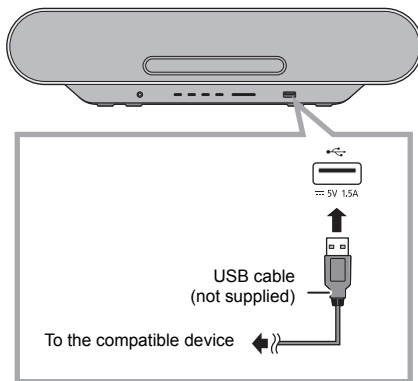


- Please disconnect the USB device if you finish using.
- Before removing the USB device, select a source other than "USB".

Charging a device

Charging starts when a device (rated value: DC 5 V/ 1.5 A) is connected to the USB port of this unit.

- 1 Turn the unit on.
- 2 Select a source other than "USB".
- 3 Connect a device.
 - Confirm from the screen of the connected device, etc. to make sure charging has started.
 - After the device has started charging, you can turn the unit to standby mode.
 - When charging a depleted device, do not turn the unit to standby mode until the device becomes operational.



- A cable compatible with your device is required. Use the cable that comes with your device.
- Even if you connect a cable compatible with the USB port of this unit, your device may not be charged. In that case, use the charger that comes with the device.
- Depending on your device, using other chargers may not work. Check the operating instructions of your device before use.
- Do not connect a device with a rated value higher than 5 V/ 1.5 A to this unit.
- To check if charging is complete, look at the screen of the connected device, etc.
- Once fully charged, remove the USB cable from the USB port.



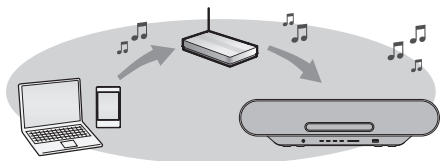
- When moving this unit, be sure to remove all media and turn this unit to standby mode.

Network settings

You can stream music from an iOS device (iPhone/iPad/iPod), an Android™ device or a PC (Windows) to this system's speakers by using the Qualcomm® AllPlay™ smart media platform. To use these features, this system must join the same network as the compatible device.

Qualcomm® AllPlay™ smart media platform is a product of Qualcomm Connected Experiences, Inc.

- Please update the system's firmware after the network settings are complete. (→ 23)



Choose a network setting method from the following.

Wireless LAN connection

Method 1: "Using the app "Panasonic Music Streaming" (→ right)

- You can make the wireless network settings with the app, "Panasonic Music Streaming" (free of charge).

Method 2: "Using an Internet browser" (→ 8)

- You can access this unit's network settings from the Internet browser on your smartphone or PC, etc.

Method 3: "Using WPS (Wi-Fi Protected Setup™)" (→ 9)

- If your wireless router supports WPS, you can set up a connection by either pressing the WPS button, or entering the WPS PIN code.

Wired LAN connection

Method 4: "Using a LAN cable" (→ 9)

- You can make a stable connection to the network with a LAN cable.

Wireless LAN connection

This system has built-in Wi-Fi® and can be connected to a wireless router.

Preparation

- Place this system as close to the wireless router as possible.
- Do not connect a LAN cable. Doing so will disable the Wi-Fi® function.

Method 1:

Using the app "Panasonic Music Streaming"

You can also refer to the supplied "Wi-Fi® QUICK SETUP GUIDE".

- 1 Download the app "Panasonic Music Streaming" (free of charge) on your smartphone/tablet. (Always use the latest version of the app.)

- **iOS** : App Store
- **Android** : Google Play™



- 2 Start the app and follow the on-screen instructions.

- 3 Check that the connection has completed.

- On the unit's display, "Success" appears when the connection is established. (The network indicator (→ 4) lights up.)
 - If "Fail" is displayed press [OK], check the network name (SSID) and the password, and then try the setting again.

The operations and on-screen display items, etc. of the app "Panasonic Music Streaming" are subject to change.

For the latest information, visit

<http://panasonic.jp/support/global/cs/audio/app/>
(This site is in English only.)



- The setting will be cancelled after the set time limit. In that case, try the setting again.

To cancel this setting in the middle, press [■].

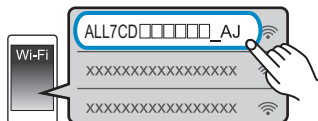
Method 2: Using an Internet browser

- The following explanations are based on a smartphone.

- 1 Turn this system on.
 - 2 Press [RADIO, EXT-IN] on the remote control repeatedly to select "NETWORK".
 - 3 Press [SETUP] on the remote control repeatedly to select "Net Setup" and then press [OK].
 - 4 Press [◀, ▶] on the remote control to select "Manual" and then press [OK].
 - 5 Press [◀, ▶] on the remote control to select "OK? Yes" and then press [OK].
 - After pressing [OK] to confirm "OK? Yes", the previous network connection you have set with this unit will be cleared.
- "Setting" blinks on the display.
- 6 Go to Wi-Fi settings on your compatible device.



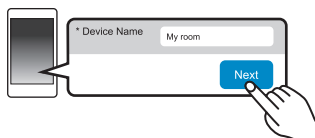
- 7 Select "ALL7CD□□□□□_AJ" to connect to this system.
 - "□" stands for a character that is unique to each set.
 - This can take up to 1 minute to appear in your Wi-Fi list.
 - If this operation does not work correctly, please repeat it several times.
 - Make sure that DHCP is enabled for the network setting on your compatible device.



About the network setting page:

- iOS device: The settings page will be automatically displayed in the Internet browser.
- Except iOS device: Open the Internet browser and refresh the page to display the settings page.
- If the settings page is not displayed, type "http://172.19.42.1/" into the URL address field.

- 8 Type a device name and then select "Next".

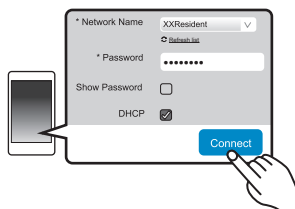


- The device name will be displayed as this system's name on the network.
- Maximum characters that can be shown: 32
- Emoji characters are not supported.
- The device name is set when "Next" is selected.
- You can also change the device name after the network connection is set up. (→ 10, "To make network-related settings")

- 9 Select your network name (SSID) and type the password.

- Check the wireless router for the network name (SSID) and the password.
- A list of network names (SSIDs) will be appeared when you select the "Network Name" box.
- To show the characters typed in the "Password" box, select "Show Password".
- If your network requires specific settings, deselect "DHCP" to disable DHCP.
 - You can use specific IP address, subnet mask, default gateway, primary DNS, etc.
- To update the network name (SSID) list, select "Refresh list".

- 10 Select "Connect" to apply the settings.



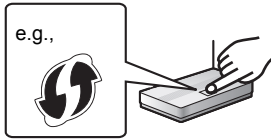
- On the unit's display, "Success" appears when the connection is established. (The network indicator (→ 4) lights up.)
 - If "Fail" is displayed press [OK], check the network name (SSID) and the password, and then try the setting again.
- Depending on the device, the connection complete screen may not be displayed.

- 11 Make sure to connect your compatible device back to your home wireless network.



- Enable Java and Cookies in your browser settings.

Method 3: Using WPS (Wi-Fi Protected Setup™)



A compatible wireless router may have the WPS identifier mark.

- 1 Turn this system on.
 - 2 Press [RADIO, EXT-IN] on the remote control repeatedly to select "NETWORK".
 - 3 To enter "WPS Push" mode
 - 1 Press [SETUP] on the remote control repeatedly to select "Net Setup" and then press [OK]. "WPS Push" is indicated on the display.
 - 2 Press [OK].
 - 3 Press [◀, ▶] on the remote control to select "OK? Yes" and then press [OK].
 - Alternatively, while pressing and holding down [▶▶/▶▶] on the unit, touch and hold [SELECTOR, — 8 PAIRING] on the unit for at least 4 seconds.
- "WPS" flashes on the display.

- 4 Activate the WPS button on the wireless router.
 - On the unit's display, "Success" appears when the connection is established. (The network indicator (→ 4) lights up.)
 - "Fail" may be displayed if the connection was not made within the set time limit. Press [OK]. Try the setting again. If "Fail" is still displayed, try other methods.

■ Using the WPS PIN code

- 1 Turn this system on.
- 2 Press [RADIO, EXT-IN] on the remote control repeatedly to select "NETWORK".
- 3 To enter "WPS PIN" mode
 - 1 Press [SETUP] on the remote control repeatedly to select "Net Setup" and then press [OK].
 - 2 Press [◀, ▶] on the remote control to select "WPS PIN" and then press [OK].
 - Alternatively, while pressing and holding down [◀◀/◀◀] on the unit, touch and hold [SELECTOR, — 8 PAIRING] on the unit for at least 4 seconds.

The PIN code is indicated on the display.
- 4 Enter the PIN code into the wireless router.



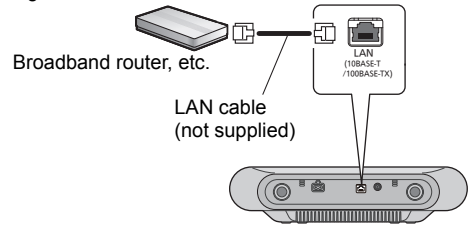
- Once the system enters WPS PIN code mode, you cannot set up using the WPS button. To use the WPS button, turn the system off and then on, and redo the network settings.
- Depending on a router, other connected devices may temporarily lose their connection.
- For details, refer to the operating instructions of the wireless router.

Wired LAN connection

Method 4: Using a LAN cable

- 1 Disconnect the AC mains lead.
- 2 Connect the unit to a broadband router, etc. using a LAN cable.

e.g.,



- 3 Connect the AC mains lead to the unit and turn this system on.
 - When the connection is established, the network indicator (→ 4) lights up.



- Use category 5 or above straight LAN cables (STP) when connecting to peripheral devices.
- The LAN cable must be connected or disconnected while the AC mains lead is disconnected.
- Inserting any cable other than a LAN cable in the LAN port can damage the system.
- If the LAN cable is disconnected, the network-related settings (→ 10) will be initialized. In that case, make the settings again.
- When a LAN cable is connected, the Wi-Fi function will be disabled.

To make network-related settings

You can change this system's name on the network, and use specific IP address, subnet mask, default gateway, primary DNS, etc.

You can also change the name of this system by changing a setting in the app "Panasonic Music Streaming" (version 3.1.0 or later) (→ right). For details on the app, refer to the site below.
<http://panasonic.jp/support/global/cs/audio/app/>
(This site is in English only.)

Preparation

- Complete the network settings. (→ 7)
- Connect your device to the same network as this system.
- Check this system's IP address (→ 25), and note it down.

1 Start an Internet browser on your device and then type this system's IP address into the address field to display the settings page.

- It may take a few minutes until the settings page is displayed depending on the environment. In that case, reload the browser.
- If the unit is connected with Wi-Fi, only a device name can be changed. Close the settings page after changing the device name.
 - To change the device name, select "Change", and type a new device name, and then select "Apply".

2 Type a device name and then select "Next".

- Refer to the step 8 of "Using an Internet browser" (→ 8) for details on a device name.

3 Select and input the details.

- If your network requires specific settings, deselect "DHCP" to disable DHCP.
 - You can use specific IP address, subnet mask, default gateway, primary DNS, etc.

4 Select "Connect" to apply the settings.

- When the connection is established, "Success" appears on the unit's display.

Streaming music over the network

You can stream music from your devices or online music services to this system's speakers and other speakers powered by AllPlay.

You can also stream music source of this system to other speakers powered by AllPlay.

Streaming music on network devices

You can use the AllPlay function to stream music from the device on the network to this system's speakers by using the app "Panasonic Music Streaming" (free of charge), etc.

- **iOS** : App Store
- **Android** : Google Play™



The operations and on-screen display items, etc. of the app "Panasonic Music Streaming" are subject to change.

For the latest information, visit

<http://panasonic.jp/support/global/cs/audio/app/>
More apps are available. For details, visit
www.panasonic.com/global/consumer/homeav/allseries/service

(These sites are in English only.)

Preparation

- Complete the network settings. (→ 7)
- Connect the following devices to the same network as this system.
 - Device with "Panasonic Music Streaming", etc. installed
 - Device containing music

The following steps are based on “Panasonic Music Streaming”.

- 1** Turn this system on.
 - Check that the network indicator (→ 4) lights up.
 - If it does not light up, check the network settings. (→ 7)
- 2** Start the app “Panasonic Music Streaming”.
 - Always use the latest version of the app.
- 3** From “Speaker”, select this system as the output speakers.
 - If you have multiple speakers powered by AllPlay, you can enjoy synchronised sound from them.
 - To group speakers, drag “” of the desired speakers over each other.
 - You can also play different songs on other speakers powered by AllPlay at the same time.
 - The number of speakers powered by AllPlay that can perform playback at the same time differs depending on the situation of use.
 - When you turn off one of the speakers powered by AllPlay, other speakers in the same group may stop the playback.
- 4** Select a music source.
- 5** Select a song.



- This system will be displayed as “Panasonic ALL7CD” if the device name is not set.
- When playing back music from the DLNA server (PC with Windows 7 or later installed, smartphone, Network Attached Storage (NAS) device, etc.), add the contents and folder to the libraries of the Windows Media® Player, the smartphone, or the NAS device, etc.
- Playlist of Windows Media® Player can play back only the contents that are stored in the libraries.
- About supported format, refer to “Specifications” (→ 30).
 - File formats that are not supported by your DLNA server cannot be played.
- Depending on the contents and the connected equipment, playback may not be performed properly.
- Ensure to stop playback on your device before turning it off.



Streaming online music

This system is compatible with several online music services.

Visit the following website for the compatibility information.

www.panasonic.com/global/consumer/homeav/allseries/service

Preparation

- Make sure that the network is connected to the Internet.
- Connect a device with a compatible app installed to the same network as this system.

- 1** Turn this system on.
 - Check that the network indicator (→ 4) lights up.
 - If it does not light up, check the network settings. (→ 7)
- 2** Start the app, and select a song to playback.

■ Using Spotify

You will need Spotify Premium. For details, visit the following website.

www.spotify.com/connect/

After step 2

- 3** Select the square image of the song's cover art in the bottom left of the playback screen.
- 4** From “”, select this system as the output speakers.
 - To enjoy synchronised sound from the multiple speakers powered by AllPlay, you need to group the speakers using the app “Panasonic Music Streaming”. (→ 10)

■ Using online music services other than Spotify

After step 2

- 3** From “”, select this system as the output speakers.
 - Depending on the service, you might need to open full screen player to display “”.
 - If you have multiple speakers powered by AllPlay, you can enjoy synchronised sound from them. Select “Group” and then select the speakers to group.



- This system will be displayed as “Panasonic ALL7CD” if the device name is not set.
- Registration/subscription is required.
- Fees may apply.
- Services, icons, and specifications are subject to change.
- For details, visit the individual music service's website.

Streaming music on this system

You can use the app “Panasonic Music Streaming” (→ 10) to stream this system's music source (CD/ internal memory/radio/USB/Bluetooth® source) to other speakers powered by AllPlay.

Preparation

- Complete the network settings. (→ 7)
- Prepare the desired audio source on this system (e.g. insert a CD, etc.)
- Install the app “Panasonic Music Streaming” on your device.
- Connect your device and your speakers powered by AllPlay to the same network as this system.

- 1 Turn this system on.
 - Check that the network indicator (→ 4) lights up.
 - If it does not light up, check the network settings. (→ 7)
- 2 Start the app “Panasonic Music Streaming”.
 - Always use the latest version of the app.
- 3 From “Speaker”, select the speaker to stream this system's audio.
 - To stream this system's audio to other speakers powered by AllPlay, drag “” of the desired speakers over each other.

- 4 Select your desired music source from the list.

- 5 Select this system.

The device will start to read the selected music source's information from this system.

- This system will change to the selector mode for the selected music source.
- The speaker selected in step 3 and this system will be automatically grouped together.
- Depending on the selected music source, playback may start. If a content list appears on your device, select the desired content to start playback.
- The number of speakers powered by AllPlay that can perform playback at the same time differs depending on the situation of use.
- When you turn off one of the speakers powered by AllPlay, other speakers in the same group may stop the playback.



- This system will be displayed as “Panasonic ALL7CD” if the device name is not set.
- When enjoying video contents with this function, the video and audio output may not be synchronised.

Storing stations under (FAVOURITE) [1] to [5] (Only when playback using internet radio app)

This unit is compatible with the Qualcomm® AllPlay™ Radio powered by TuneIn.

You can preset stations when playback using internet radio app “AllPlay Radio”.

Qualcomm® AllPlay™ Radio powered by TuneIn is a product of Qualcomm Connected Experiences, Inc.

You can store up to 5 stations under (FAVOURITE) [1] to [5].

- A station previously stored is overwritten when another station is stored under the same (FAVOURITE) [1] to [5].

Preparation

- Make sure that the network is connected to the Internet.
- Connect a device with an “AllPlay Radio” app installed to the same network as this system.

- 1 Turn this system on.
 - Check that the network indicator (→ 4) lights up.
 - If it does not light up, check the network settings. (→ 7)
- 2 Start the app “AllPlay Radio”, and select a station to playback.
 - Always use the latest version of the app.
- 3 Press and hold one of [1] to [5] until “P  ” appears on the display.
 (“  ” stands for a number.)

■ Listening to a stored station

Press one of [1] to [5].



- If the selected preset channel has not been preset, “No Preset” is displayed.

Bluetooth® operations

You can listen to the sound from the Bluetooth® audio device from this unit wirelessly.

- Refer to the operating instructions of the Bluetooth® device for details.

Connecting via Bluetooth® menu

Preparation

- Turn on the Bluetooth® feature of the device and place the device near this unit.

■ Pairing with Bluetooth® devices

- 1 Press [CD/Ⓜ] repeatedly to select “BLUETOOTH”.
 - If “Pairing” is indicated on the display, go to step 3.
- 2 Press [PLAY MENU] to select “Pairing” and then press [OK].
 - Alternatively, touch and hold [SELECTOR, —Ⓜ PAIRING] on the unit.
- 3 Select “SC-ALL7CD” from the Bluetooth® device’s Bluetooth® menu.
 - The MAC address (e.g., 6C:5A:B5:B3:1D:0F) may be displayed before “SC-ALL7CD” is displayed.
 - The name of the connected device is indicated on the display for a few seconds.
- 4 Start playback on the Bluetooth® device.

■ Connecting a paired Bluetooth® device

- 1 Press [CD/Ⓜ] repeatedly to select “BLUETOOTH”.
 - “Ready” is indicated on the display.
- 2 Select “SC-ALL7CD” from the Bluetooth® device’s Bluetooth® menu.
 - The name of the connected device is indicated on the display for a few seconds.
- 3 Start playback on the Bluetooth® device.



- If prompted for the passkey, input “0000”.
- You can register up to 8 devices with this unit. If a 9th device is paired, the device that has not been used the longest will be replaced.
- This unit can only be connected to one device at a time.
- When “BLUETOOTH” is selected as the source, this unit will automatically try and connect to the last connected Bluetooth® device. (“Linking” is indicated on the display during this process.) If the connection attempt fails, try to establish a connection again.

Bluetooth® transmission mode

You can change the transmission mode to prioritise transmission quality or sound quality.

Preparation

- Press [CD/Ⓜ] repeatedly to select “BLUETOOTH”.
- If a Bluetooth® device is already connected, disconnect it.

- 1 Press [PLAY MENU] repeatedly to select “Link Mode”.
- 2 Press [◀, ▶] to select the mode and then press [OK].

Mode 1: Emphasis on connectivity

Mode 2: Emphasis on sound quality



- Select “Mode 1” if the sound is interrupted.
- When enjoying video contents with this function, the video and audio output may not be synchronised. In this case, select “Mode 1”.
- The factory default is “Mode 2”.

Bluetooth® input level

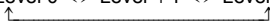
If the sound input level from the Bluetooth® device is too low, change the input level setting.

Preparation

- Connect a Bluetooth® device.

- 1 Press [PLAY MENU] repeatedly to select “Input Level”.
- 2 Press [◀, ▶] to select the level and then press [OK].

“Level 0” ↔ “Level +1” ↔ “Level +2”



- Select “Level 0” if the sound is distorted.
- The factory default is “Level 0”.

Disconnecting a Bluetooth® device

- 1 While a Bluetooth® device is connected: Press [PLAY MENU] repeatedly to select “Disconnect?”.
- 2 Press [◀, ▶] to select “OK? Yes” and then press [OK].



- You can also disconnect the Bluetooth® device by touching and holding [SELECTOR, —Ⓜ PAIRING] on the unit.
- The Bluetooth® device will be disconnected if a different audio source (e.g., “CD”) is selected.

About Bluetooth®

Panasonic bears no responsibility for data and/or information that is compromised during a wireless transmission.

■ Frequency band used

- This system uses the 2.4 GHz frequency band.

■ Certification of this device

- This system conforms to frequency restrictions and has received certification based on frequency laws. Thus, a wireless permit is not necessary.
- The actions below are punishable by law in some countries:
 - Taking apart or modifying the system.
 - Removing specification indications.

■ Restrictions of use

- Wireless transmission and/or usage with all Bluetooth® equipped devices is not guaranteed.
- All devices must conform to standards set by Bluetooth SIG, Inc.
- Depending on the specifications and settings of a device, it can fail to connect or some operations can be different.
- This system supports Bluetooth® security features. But depending on the operating environment and/or settings, this security is possibly not sufficient. Transmit data wirelessly to this system with caution.
- This system cannot transmit data to a Bluetooth® device.

■ Range of use

- Use this device at a maximum range of 10 m. The range can decrease depending on the environment, obstacles or interference.

■ Interference from other devices

- This system may not function properly and troubles such as noise and sound jumps may arise due to radio wave interference if this system is located too close to other Bluetooth® devices or the devices that use the 2.4 GHz band.
- This system may not function properly if radio waves from a nearby broadcasting station, etc. is too strong.

■ Intended usage

- This system is for normal, general use only.
- Do not use this system near an equipment or in an environment that is sensitive to radio frequency interference (example: airports, hospitals, laboratories, etc).

Media playback controls

The following marks indicate the availability of the feature.

- CD**: CD audio in CD-DA format or a CD that contains MP3 files (→ 26)
- MEMORY**: Internal memory
(This unit is pre-recorded with a sample music under each (FAVOURITE) [1] to [5]. About recording to the internal memory, refer to page 20.)
- USB**: USB devices containing MP3/AIFF/FLAC/WAV/AAC files (→ 26)
- BLUETOOTH**: Connected Bluetooth® device (→ 13)
- NETWORK**: When connected to an AllPlay/DLNA compatible device (→ 10)

Basic play

(CD, MEMORY, USB, BLUETOOTH, NETWORK)

Preparation

- Turn the unit on.
- Insert the media or connect the Bluetooth®/AllPlay/DLNA compatible device. (→ 6, 10, 13)

1 Select the audio source.

For disc:

Press [CD/🎵] repeatedly to select "CD".

For internal memory:

Press [MEMORY] to select "MEMORY".

For USB device:

Press [RADIO, EXT-IN] repeatedly to select "USB".

For Bluetooth® device:

Press [CD/🎵] repeatedly to select "BLUETOOTH".

For AllPlay/DLNA compatible device:

When this system is selected as the output speakers, the audio source will change to the network source.

- Alternatively, press [RADIO, EXT-IN] repeatedly to select "NETWORK".

(When selecting using this unit, touch [SELECTOR, —🔗PAIRING] repeatedly.)

2 Press [▶/⏮] to start playback.

- **MEMORY**: When you start play with [▶/⏮], playback starts from the first track to the last track in the internal memory.

Basic controls

Stop	Press [■]. • [MEMORY], [USB]: The position is memorised and "Resume" is displayed. • [MEMORY], [USB]: Press [■] twice to stop the playback fully. – [MEMORY]: Favourite play and one-touch mix play will be cancelled. (→ right)
Pause	Press [▶/⏸]. Press again to continue playback.
Skip	Press [◀◀] or [▶▶] to skip track. (This unit: [◀◀/◀◀] or [▶▶/▶▶]) [CD] (MP3), [MEMORY] , [USB] Press [▲] or [▼] to skip the album. • [MEMORY]: When using the favourite play function, you can only skip track or album within the selected number for (FAVOURITE) [1] to [5].
Search (Except [NETWORK])	During play or pause, press and hold [◀◀] or [▶▶]. (This unit: [◀◀/◀◀] or [▶▶/▶▶])

■ To display information

[CD], **[MEMORY]**, **[USB]**, **[BLUETOOTH]**

You can display the track, artist, album name, file type, bit rate, and other information. (The information varies depending on the audio source.)

Press [DISPLAY] repeatedly.

e.g. **[MEMORY]**

"M□-A□□□□": The number for (FAVOURITE) [1] to [5], the number of albums, the number of tracks

(e.g. "M1-A2T030" indicates that (FAVOURITE) [1] consists of 2 albums and 30 tracks.)

e.g. **[USB]** (MP3)

"A□□□": Album number

"T□□□": Track number

("□" stands for a number.)



- To use this unit's remote control with a Bluetooth® device, the Bluetooth® device must support AVRCP (Audio Video Remote Control Profile).
Depending on the status of the device, some controls may not work.
- **[NETWORK]**: Some controls may not work depending on the app in use, etc.
- **[CD]**, **[MEMORY]**, **[USB]**: Tracks can be selected by pressing the numeric buttons.
- Maximum number of displayable characters:
Approx. 32
- This system supports ver. 1 and 2 ID3 tags.
- Text data that is not supported will not be displayed or will be shown differently.

Favourite play (**[MEMORY]**)

You can play your favourite internal memory contents stored under one of (FAVOURITE) [1] to [5].

Preparation

Turn the unit on.

- 1 Press [MEMORY] to select "MEMORY".
- 2 Press [FAVOURITE] and then press one of [1] to [5] on the remote control.
 - Alternatively, press one of (FAVOURITE) [1] to [5] on this unit.

One-touch mix play (**[MEMORY]**)

You can turn the unit on, and start playing all the contents in the internal memory randomly and repeatedly, with a single press of a button.

Press [MIX PLAY].

- Playback will start and "MIX PLAY" will be shown for a few seconds.
- The audio source will change to "MEMORY" automatically.
- "RND" and "↻" indicators light up.

Playback modes (CD, MEMORY, USB)

Select the playback mode.

- 1 Press [PLAY MENU] repeatedly to select "Playmode" or "Repeat".
- 2 Press [◀, ▶] to select the setting and then press [OK].

Playmode

Off Playmode	Cancels the play mode setting.
1-Track	Only plays the selected track. • "1" indicator lights up. (Skip to the desired track.)
1-Album	Only plays the selected album. • Press [▲] or [▼] to select the album. • "1" indicator lights up.
Random	Plays the contents randomly. • "RND" indicator lights up.
1-Album Random	Plays the tracks in the selected album randomly. • Press [▲] or [▼] to select the album. • "1" and "RND" indicators light up.

Repeat

On Repeat	Turns on repeat mode. • "R" indicator lights up.
Off Repeat	Turns off repeat mode.



- During random playback, you cannot skip to tracks which have been played or press the numeric buttons.
- Playmode function does not work with "Programme play".
- The mode is cancelled when you open the disc tray, remove the USB device, or start recording.
- **MEMORY**: When using the one-touch mix play function, [PLAY MENU] does not work.

Programme play

(CD, MEMORY, USB)

This function allows you to programme up to 24 tracks.

CD (CD-DA)

- 1 Press [PGM, -DEL] in the stop mode.
 - "Program" is shown for a few seconds.
- 2 Press the numeric buttons to select the desired track.
 - Do this step again to programme other tracks.
- 3 Press [▶/||] to start playback.

CD (MP3), **USB**, **MEMORY**

- 1 Press [PGM, -DEL] in the stop mode.
 - "Program" is shown for a few seconds.
- 2 Press [▲, ▼] to select the desired album.
- 3 Press [▶▶] and then press the numeric buttons to select the desired track.
- 4 Press [OK].
 - Do steps 2 through 4 again to programme other tracks.
- 5 Press [▶/||] to start playback.

Check programme contents	Press [◀◀] or [▶▶] in the stop mode.
Clear the last track	Press and hold [PGM, -DEL] in the stop mode.
Cancel programme mode	Press [PGM, -DEL] in the stop mode. • "PGM Off" is shown for a few seconds.
Clear all programmed tracks	Press [■] in the stop mode. "Clear All" is shown. Within 5 seconds, press [■] again.



- The programme memory is cleared when you open the disc tray, remove the USB device, or start recording.

Listening to FM radio

You can preset up to 30 channels.

Channel 1 to 5 will be set as the favourite stations under (FAVOURITE) [1] to [5]. (→ right, "Changing the stations stored under (FAVOURITE) [1] to [5]")

Preparation

- Make sure that the antenna is connected. (→ 5)
- Turn the unit on.
- Press [RADIO, EXT-IN] repeatedly to select "FM".

Presetting stations automatically

- 1 Press [PLAY MENU] to select "A.Preset".
- 2 Press [◀, ▶] to select "Lowest" or "Current" and then press [OK].

Lowest:

To begin auto preset with the lowest frequency ("FM 87.50").

Current:

To begin auto preset with the current frequency.*1

- The tuner starts to preset all the stations it can receive into the channels in ascending order.

*1: To change the frequency, refer to "Manual tuning".

Listening to a preset channel

Press the numeric buttons, [◀◀] or [▶▶] to select the preset station.

- Alternatively, press [◀◀/◀◀] or [▶▶/▶▶] on this unit when "Preset" is selected as the tune mode*2.
- You can select channel 1 to 5 by touching one of (FAVOURITE) [1] to [5] on this unit.

Manual tuning

Press [◀◀] or [▶▶] to tune in to the station.

- Alternatively, press [◀◀/◀◀] or [▶▶/▶▶] on this unit when "Manual" is selected as the tune mode*2.

To tune automatically, press and hold the button until the frequency starts changing quickly.

*2: To change the tune mode

- 1 Press [PLAY MENU] repeatedly to select "Tune Mode".
- 2 Press [◀, ▶] to select "Manual" or "Preset", and then press [OK].

Presetting stations manually

- 1 While listening to the radio broadcast
Press [PGM, -DEL].
- 2 Press the numeric buttons to select a preset number.
 - Do steps 1 through 2 again to preset more stations.



- A station previously stored is overwritten when another station is stored in the same channel preset.

Changing the stations stored under (FAVOURITE) [1] to [5]

You can change the stations stored under (FAVOURITE) [1] to [5] easily.

While listening to the radio broadcast
Press and hold one of [1] to [5] until "P □" appears on the display.

("□" stands for a number.)



- When you change the stations stored under (FAVOURITE) [1] to [5], channel 1 to 5 are also changed to the same corresponding stations.

To display the current FM signal status

For Continental Europe:

Press [DISPLAY] repeatedly to select "FM Status".

For others:

Press [DISPLAY].

"FM ST": FM stereo broadcast is being received.

"FM - - - -": No broadcast is received or FM broadcast received is weak or in monaural.

"FM Mono": You have set the "FM Mode" to "Mono".
(→ 27, "If noise is excessive during FM reception.")



- "Stereo" is displayed when this unit tunes to a stereo broadcast.

To display RDS text data

(For Continental Europe only)

This system can show the text data transmitted by the radio data system (RDS) available in some areas.

Press [DISPLAY] repeatedly.

"PS": Programme service

"PTY": Programme type

"Freq": Frequency



- RDS is available only when stereo works in reception.
- RDS may not be available if reception is poor.

Listening to DAB/DAB+

Preparation

- Make sure that the DAB antenna is connected. (→ 5)
- Turn the unit on.
- Press [RADIO, EXT-IN] repeatedly to select "DAB+".

Memorising stations

To listen to DAB/DAB+ broadcasts, the available stations need to be memorised in this unit.

- This unit will automatically start the "DAB Auto Scan" and memorise the stations that are available in your region if you select "DAB+" for the first time.



- "Scan Failed" is displayed when the auto scan is unsuccessful. Locate the position with the best reception (→ 19, "To verify or improve the signal reception quality") and then re-scan DAB/DAB+ stations.

To re-scan DAB/DAB+ stations

When new stations are added or when the antenna has been moved, reperform the auto scan.

- 1 Press [PLAY MENU] to select "Auto Scan" and then press [OK].
- 2 While "Start?" is flashing, Press [OK].



- When updating the station memory with the auto scan, preset stations will be erased. Preset them again (→ below).

Listening to the memorised stations

Press [◀◀] or [▶▶] to select a station.

- Alternatively, press [◀◀/▶▶] or [▶▶/▶▶] on this unit when "Station" is selected as the tune mode*1.

Presetting DAB/DAB+ stations

You can preset up to 20 DAB/DAB+ channels. Channel 1 to 5 will be set as the favourite stations under (FAVOURITE) [1] to [5]. (→ right, "Changing the stations stored under (FAVOURITE) [1] to [5]")

- 1 While listening to a DAB/DAB+ broadcast Press [PGM, -DEL].
- 2 Press the numeric buttons to select a preset number.



- You cannot preset stations when the station is not broadcasting or when the secondary service is selected.
- The station occupying a channel is erased if another station is preset in that channel.

Changing the stations stored under (FAVOURITE) [1] to [5]

You can change the stations stored under (FAVOURITE) [1] to [5] easily.

While listening to a DAB/DAB+ broadcast Press and hold one of [1] to [5] until "P □" appears on the display.

("□" stands for a number.)



- When you change the stations stored under (FAVOURITE) [1] to [5], channel 1 to 5 are also changed to the same corresponding stations.

Listening to preset DAB/DAB+ stations

Press the numeric buttons, [◀◀] or [▶▶] to select the preset station.

- Alternatively, press [◀◀/▶▶] or [▶▶/▶▶] on this unit when "Preset" is selected as the tune mode*1.
- You can select channel 1 to 5 by touching one of (FAVOURITE) [1] to [5] on this unit.

*1: To change the tune mode

- 1 Press [PLAY MENU] repeatedly to select "Tune Mode".
- 2 Press [◀, ▶] to select "Station" or "Preset", and then press [OK].



- To select by preset, make sure that stations have already been preset manually.
- To add additional preset stations, select the station using the method mentioned in "Listening to the memorised stations" (→ left).

Listening to the secondary service

Some DAB/DAB+ stations provide a secondary service as well as the primary service. If the station you are listening to is providing secondary service, "▼" indicator will light up.

- 1 While "▼" indicator lights up Press [PLAY MENU] repeatedly to select "DAB Secondary".
- 2 Press [◀, ▶] to select the secondary service and press [OK].



- The setting will go back to primary service when changes are made (e.g. the station is changed).

Display

Press [DISPLAY] to change the display.

The information will scroll through the display.
Each time you press the button:

Dynamic label:	Information about the broadcast
PTY display:	Programme type
Ensemble label:	The name of the ensemble
Frequency display:	The frequency block and frequency is displayed.
Time display:	Current time

Automatic clock adjustment

If the DAB/DAB+ broadcast includes time information, this unit's clock will be automatically updated.

- 1 Press [PLAY MENU] repeatedly to select "Auto Clock Adj".
- 2 Press [◀, ▶] to select "On Adjust" and then press [OK].



- Select "Off Adjust" to turn the automatic clock adjustment function off.

To verify or improve the signal reception quality

To check the signal reception quality, at least 1 frequency block needs to be successfully memorised.

- If "Scan Failed" is displayed after "DAB+" is selected or after an auto scan, proceed to "Manually tuning 1 frequency block" (→ below)
- If stations have already been memorised to this unit, proceed to "Checking the DAB/DAB+ signal reception quality" (→ right)

Manually tuning 1 frequency block

Use this function to scan 1 frequency block after adjusting the position of the DAB antenna.

Preparation

Note down a frequency block that can be received in your region (e.g., 12B 225.648 MHz).

- 1 While "Scan Failed" is displayed.
Adjust the position of the DAB antenna.
- 2 Press [PLAY MENU] repeatedly to select "Manual Scan".
- 3 Press [◀, ▶] to select the frequency block that is receivable in your region and then press [OK].



- If broadcasting stations are memorised, proceed to "To re-scan DAB/DAB+ stations" to memorise stations on other frequency blocks. (→ 18)
- If "Scan Failed" is still displayed, repeat steps 1 to 3 until a station is memorised. If the situation does not improve, try using an outdoor DAB antenna or consult your dealer.

Checking the DAB/DAB+ signal reception quality

- 1 While listening to the DAB/DAB+ broadcast:
Press [PLAY MENU] repeatedly to select "Signal Quality" and then press [OK].

- The current frequency block is displayed and then the reception quality is indicated.

Reception quality
0 (poor) – 8 (excellent)



- 2 If the signal reception quality is poor, move the antenna to a position where the reception quality improves.
- 3 To continue checking the quality of other frequency blocks:
Press [◀, ▶] again and select the desired frequency.
- 4 Press [OK] to exit.



- If the antenna has been adjusted, perform auto scanning and update the station memory. (→ 18)

Recording a CD to the internal memory

You can record a CD to this unit's internal memory. The recordings will be stored under your selected number for (FAVOURITE) [1] to [5]. The CD recording duration is the same as its playback duration in order to record in high quality. Enjoy the playback while recording.

- Supported recording source:
A disc with CD audio in CD-DA format
- This unit is pre-recorded with a sample music under each (FAVOURITE) [1] to [5]. Overwrite the pre-recorded content when "To Overwrite, Press REC" is displayed during the recording procedure. (→ right)
 - You can also delete the content before recording. (→ 21, "Deleting the internal memory contents (MEMORY)")

Preparation

- Turn the unit on.
- Load a disc.
- Press [CD/⊗] repeatedly to select "CD".
- Select the recording mode. (→ below)

Do not disconnect the AC mains lead while recording.



- You cannot check the remaining capacity in the internal memory.
- When recording starts, the playback mode and programme settings will be cleared.
- During recording, only limited operation controls are available, such as volume adjustment, stop recording, turning the unit off.

Selecting the recording mode

You can choose from 2 recording modes. Press [REC MODE] repeatedly to select the desired recording mode.

"HQ 1-CD" mode	For normal CD recording in high quality sound. You can record 1 CD under each (FAVOURITE) [1] to [5].
"Multi-CD" mode	For recording a disc album consisting of several CDs. You can record up to 5 CDs under each (FAVOURITE) [1] to [5] (depending on the CD playback duration).



- The factory default is "HQ 1-CD".
- You cannot record by two types of recording mode within each (FAVOURITE) [1] to [5].

Normal CD recording in high quality sound ("HQ 1-CD" mode)

- Press [● REC] in the stop mode.
 - "Select Number" is displayed.
 - Press one of [1] to [5] for storing your recording.
 - If there is recorded content under the selected number**
 - "To Overwrite, Press REC" is indicated on the display.
 - To overwrite the recorded contents, press [● REC] to proceed recording.
 - To cancel, press [■].
 - If there is no recorded content under the selected number**
 - Recording will start.
- When recording starts, the [● REC] indicator on this unit will light up in red.

To check recording has finished

When recording ends, "Writing" blinks on the display for a few seconds. Then, the [● REC] indicator on this unit goes off.

To stop recording

- Press [■].
- The recording will stop at the position [■] is pressed.

Recording a disc album consisting of several CDs ("Multi-CD" mode)

- Press [● REC] in the stop mode.
 - "Select Number" is displayed.
 - Press one of [1] to [5] for storing your recording.
 - When recording the subsequent CD of the disc album, select same number as your first recorded CD.
 - When recording the first CD**

If there is recorded content under the selected number:

 - To overwrite the recorded contents, press [▲, ▼] to select "To Overwrite, Press REC" and then press [● REC] to proceed recording.
 - To cancel, press [■].

If there is no recorded content under the selected number:

 - Recording will start.
 - When recording the subsequent CD**
 - "To Add Songs, Press REC" is indicated on the display.
 - To add the current recording under the selected numeric button, press [● REC].
 - To cancel, press [■].
- When recording starts, the [● REC] indicator on this unit will light up in red.

- 3 Check that recording has finished.
- When recording ends, "Writing" blinks on the display for a few seconds. Then, the [● REC] indicator on this unit goes off.
- 4 To record the next CD, replace the CD and repeat from step 1.

To stop recording

Press [■].

- The recording will stop at the position [■] is pressed.

■ Deleting the internal memory contents (MEMORY)

- 1 Press [MEMORY] to select "MEMORY".
- 2 While in stop mode, press [SETUP] repeatedly to select "Del Mode".
- 3 Press [◀, ▶] to select "1-Mem Del" or "All Del" and then press [OK].

1-Mem Del	To delete the recorded contents under one of (FAVOURITE) [1] to [5].
All Del	To delete all the recorded contents in the internal memory. (All contents under (FAVOURITE) [1] to [5] will be deleted.)

- 4 **When "1-Mem Del" is selected**
((FAVOURITE) [1] to [5] indicators on this unit blink)
Press one of [1] to [5] containing the contents you want to delete.
- When "All Del" is selected**
((FAVOURITE) [1] to [5] indicators on this unit light up)
Go to step 5.
- 5 Press [OK] to confirm the deletion.
- To cancel, press [■].
- "Deleting" blinks on the display when you have proceeded with the deletion.

Do not disconnect the AC mains lead while "Deleting" is displayed. Failure to do so may cause the internal memory to be corrupted.

Sound adjustment

The following sound effects can be added to the audio output.

- 1 Press [SOUND] repeatedly to select the effect.
- 2 Press [◀, ▶] to select the setting and then press [OK].

"My Sound" (My sound)	"Sound 1", "Sound 2", or "Sound 3". (→ below, "Saving the sound settings")
"Preset EQ" (Preset Equalizer)	"Heavy" (heavy), "Soft" (soft), "Clear" (clear), "Vocal" (vocal) or "Flat" (flat/off).
"Bass" (Bass) or "Treble" (Treble)	Adjust the level (−4 to +4).
"D.Bass" (Dynamic Bass)	"On D.Bass" or "Off D.Bass".
"Surround" (Surround)	"On Surround" or "Off Surround".
"Clear-Mode Dialog" (Clear-mode Dialogue)	"On" or "Off".

- You may experience a reduction in sound quality when these effects are used with some sources. If this occurs, turn the sound effects off.

Saving the sound settings

You can save your desired sound settings to "Sound 1", "Sound 2" or "Sound 3" as "My Sound".

- 1 Adjust your desired sound effects. (→ above)
- 2 Press [SETUP] to select "Save My Sound".
- 3 Press [◀, ▶] to select a setting number and then press [OK].
- "Saved" is displayed.
 - The sound settings previously saved will be replaced when you save new settings to the same setting number.

Recalling the sound settings you have saved

- 1 Press [SOUND] to select "My Sound".
- 2 Press [◀, ▶] to select the desired sound setting number and then press [OK].

Clock and Timer

Setting the clock

This is a 24-hour clock.

Using clock information from a network device

You can stream the clock information from the device to this unit by using the app "Panasonic Music Streaming" (→ 10).

Preparation

- Complete the network settings. (→ 7)
- Install the app "Panasonic Music Streaming" on your device.
- Connect your device to the same network as this system.

- 1 Turn this system on.
 - Check that the network indicator (→ 4) lights up.
 - If it does not light up, check the network settings. (→ 7)
- 2 Start the app "Panasonic Music Streaming".
 - Always use the latest version of the app.
 - The clock information will be sent to this system.

Adjusting the clock manually

- 1 Press [CLOCK/TIMER] to select "Clock".
- 2 Press [▲, ▼] to set the time and then press [OK].

■ To check the time

Press [CLOCK/TIMER].



- The clock is reset when there is a power failure or when the AC mains lead is removed.
- Reset the clock regularly to maintain accuracy.

Sleep timer

The sleep timer can turn the unit off after a set time.

Press [SLEEP] repeatedly to select the setting (in minutes).

"Sleep 30" → "Sleep 60" → "Sleep 90" → "Sleep 120"
↑ "Off" (Cancel) ↓



- The remaining time is indicated on the unit's display at every minute except when other operations are performed.
- The play timer and sleep timer can be used together. The sleep timer is always the main timer on the unit.

Play timer

You can set the timer so this unit turns on at a certain time every day.

Preparation

Set the clock.

- 1 Press [CLOCK/TIMER] repeatedly to select "Timer Adj".
- 2 Press [▲, ▼] to set the starting time ("On Time") and then press [OK].
- 3 Press [▲, ▼] to set the finishing time ("Off Time") and then press [OK].
- 4 Press [▲, ▼] to select the music source* and then press [OK].

Turning the timer on

- 1 Prepare the selected music source and set the desired volume.
- 2 Press [⊙, PLAY].
 - "⊙" indicator lights up.
 - To cancel, press [⊙, PLAY] again.
- 3 Press [⏻] to turn the unit to standby mode.

■ To check the settings

Press [CLOCK/TIMER] repeatedly to select "Timer Adj".

(During standby, press [CLOCK/TIMER] twice.)



- The timer starts at a low volume and increases gradually to the preset level.
- The timer comes on at the set time every day if the timer is on.
- If you turn off the unit and turn it on again while a timer is in operation, the timer will not stop at the end time.

* "CD", "USB", "MEMORY", "DAB+", and "FM" can be set as the music source.

Firmware updates

Occasionally, Panasonic may release updated firmware for this system that may add or improve the way a feature operates. These updates are available free of charge.

You can also update the firmware from a pop-up prompting you to do so on-screen within the app "Panasonic Music Streaming" (version 3.1.0 or later) (→ 10). For details on the app, refer to the site below.
<http://panasonic.jp/support/global/cs/audio/app/>
(This site is in English only.)



Downloading takes approx. 10 minutes.
DO NOT DISCONNECT the AC mains lead while one of the following messages is displayed.

"Updating" or "Upd □□%"
("□" stands for a number.)

- During the update process, no other operations can be performed.

Preparation

- Turn this system on.
- Connect this system to the home network. (→ 7)
 - Make sure that the network is connected to the Internet.

- 1 Press [RADIO, EXT-IN] repeatedly to select "NETWORK".
- 2 Press [SETUP] repeatedly to select "FW Update" and then press [OK].
- 3 Press [◀, ▶] to select "OK? Yes" and then press [OK] to start the update.

- Select "OK? No" to cancel the update.

When the update begins, "Updating" is displayed. The progress is displayed as "Upd □□%" while updating. ("□" stands for a number.)

- 4 After the update has finished, "Success" is displayed.
Disconnect the AC mains lead and reconnect it after 1 minute.



- If there are no updates, "No Need" is displayed.
- Downloading may take longer or may not work properly depending on the connection environment.

Checking the firmware version

Press [SETUP] repeatedly to select "FW Version" and then press [OK].

The version of the installed firmware is displayed.

- Press [OK] to exit.

Others

Auto off function

As a factory default, this unit will turn to standby mode automatically if there is no sound and it is not being used for approximately 20 minutes.

To cancel this function

- 1 Press [SETUP] repeatedly to select "Auto Off".
- 2 Press [◀, ▶] to select "Off" and then press [OK].



- To turn the function on, select "On" in step 2.
- This setting cannot be selected when radio is the source or when "Net Standby" is "On".
- If "Net Standby" is set to "On", this function will also be set to "On". To change the setting, set "Net Standby" to "Off". (→ 24)
- When connected to a Bluetooth® device, the function does not work.
- When playing AllPlay, the function does not work.

Bluetooth® standby

When "SC-ALL7CD" is selected from a paired Bluetooth® device's Bluetooth® menu, this unit will turn on automatically from standby mode and establish a Bluetooth® connection.

- 1 Press [SETUP] repeatedly to select "BLUETOOTH Standby".
- 2 Press [◀, ▶] to select "On" and then press [OK].



- To turn the function off, select "Off" in step 2.
- The factory default is "Off". If this function is set to "On", the standby power consumption will increase.

Changing the unit and remote control code

When other Panasonic equipment responds to the supplied remote control, change the remote control code.

- 1 Press [CD/8] repeatedly to select "CD".
- 2 Press and hold [■] on the unit and [2] on the remote control until the unit's display shows "Remote 2".
- 3 Press and hold [OK] and [2] on the remote control for at least 4 seconds.



- To change the mode back to "Remote 1", repeat the steps above but replace [2] with [1].

Beep sound setting

As a factory default, there will be a beep sound when you touch the switch on the top panel of the unit.

To cancel this function

- 1 Press [SETUP] repeatedly to select "Buzzer".
- 2 Press [◀, ▶] to select "Off" and then press [OK].



- To turn the function on, select "On" in step 2.
- The function works during muting as well.

Network standby

This system can turn on automatically from standby mode when this system is selected as the network device's output speakers.

As a factory default, the network standby is off before you connect this system to the home network.

When you connect it to the home network for the first time, this function will automatically switch to on.

You can also turn the network standby on by the following steps:

- 1 Press [SETUP] repeatedly to select "Net Standby" and then press [OK].
- 2 Press [◀, ▶] to select "On" and then press [OK].

- When "Net Standby" is "On"
 - The network (wired LAN/Wi-Fi) will be active even in standby mode.
 - The power consumption in standby mode will increase. To reduce the power consumption in standby mode, turn off the network standby.

To turn off the network standby

Select "Off" in step 2.

- When you have turned "Net Standby" to "Off"
 - The network (wired LAN/Wi-Fi) will be disabled in standby mode if the system is switched to standby mode at a source other than "NETWORK". The network (wired LAN/Wi-Fi) will be enabled when the system is turned on.
 - Network standby will be active if the system is switched to standby mode at "NETWORK" selector mode and this system is connected to the network.
 - To keep the network standby turned off, select a source other than "NETWORK" before switching the unit to standby mode.



- This function will return to default setting if you have performed the operation for network reset. (→ 25)
- When the system is turned on by this feature, the beginning part of the music may not be played back.
- Depending on the app, the conditions for activating this function may differ.
- The system may not turn on even when selected as the output speakers. In that case, start playback.

Wireless LAN setting

The wireless LAN function can be enabled or disabled.

- 1 Press [RADIO, EXT-IN] repeatedly to select "NETWORK".
- 2 Press [SETUP] repeatedly to select "Wireless LAN" and then press [OK].
- 3 Press [◀, ▶] to select "On" or "Off" and then press [OK].



- The factory default is "On".

Wi-Fi signal strength

To check the Wi-Fi signal strength where this system is located.

Preparation

Connect this system to the wireless network. (→ 7)

- 1 Press [RADIO, EXT-IN] repeatedly to select "NETWORK".
- 2 Press [SETUP] repeatedly to select "Signal Level" and then press [OK].
"Level □" is indicated on the display.
("□" stands for a number.)
 - Press [OK] to exit this display mode.



- It is recommended to have a signal strength of "3". Change the position or angle of your wireless router or this system if the indication is "2" or "1" and see if the connection improves.
- If "Level 0" is displayed, this system cannot establish a link with the wireless router. (→ 29)

Wireless network name (SSID)

Display the name for the connected wireless network (SSID).

- 1 Press [RADIO, EXT-IN] repeatedly to select "NETWORK".
- 2 Press [SETUP] repeatedly to select "Net Info" and then press [OK].
- 3 Press [◀, ▶] repeatedly to select "SSID" and then press [OK].
 - Press [OK] to exit.



- If "No Connect" is displayed this system is not connected to a wireless network.
- Characters that cannot be displayed are replaced with "×".

IP/MAC Address

To check this system's IP address or the Wi-Fi MAC address.

- 1 Press [RADIO, EXT-IN] repeatedly to select "NETWORK".
- 2 Press [SETUP] repeatedly to select "Net Info" and then press [OK].
- 3 Press [◀, ▶] repeatedly to select "IP Addr." or "MAC Addr." and then press [OK].
The IP address or the MAC address is partially displayed.
- 4 Press [◀, ▶] on the remote control to show the rest of the IP address or the MAC address.
 - Press [OK] to exit.
 - The "~" displayed on the top left or "_" on bottom left of the display indicate the first and last units respectively.

Network reset

To reset the network settings.

- 1 Press [RADIO, EXT-IN] repeatedly to select "NETWORK".
- 2 Press [SETUP] repeatedly to select "Net Reset" and then press [OK].
- 3 Press [◀, ▶] to select "OK? Yes" and then press [OK].
 - "Network Initializing" is indicated on the display. When the display returns to "NETWORK", the network settings are reset.



- This function does not affect the "Wireless LAN" setting.

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About recorded content

Please note that even if content is not recorded correctly due to any defects, Panasonic will not be responsible for compensation for such content, losses arising out of the recorded content, or any direct or indirect damage caused by such recording. The same also applies to repairing this unit.

Playable media

Compatible CD

- A disc with the CD Logo.



- This unit can play back discs that conform to the CD-DA format.
- This system can play back CD-R/RW with CD-DA or MP3 format content.
- The unit may not be able to play some discs due to the condition of the recording.
- Before playback, finalise the disc on the device it was recorded on.
- If the disc includes both MP3 and normal audio data (CD-DA), the unit plays the type recorded in the inner part of the disc.
- This unit cannot play files recorded using packet write.
- Disc must conform to ISO9660 level 1 or 2 (except for extended formats).



- Some CD-R/RW cannot be played because of the condition of the recording.
- MP3 files are defined as tracks and folders are defined as albums.
- This system can access up to:
 - CD-DA: 99 tracks
 - MP3: 999 tracks, 255 albums (including root folder)
- Recordings will not necessarily be played in the order you recorded them.

Compatible USB devices

- This unit does not guarantee connection with all USB devices.
- FAT12, FAT16 and FAT32 file systems are supported.
- This unit supports USB 2.0 High Speed.
- USB devices with storage capacity of more than 32 GB cannot work in some conditions.
- Supported file formats and extensions:
MP3 (*.mp3), AIFF (*.aiff), FLAC (*.flac),
WAV (*.wav), AAC (*.m4a)
- Depending on how you create the files, they may not play in the order you numbered them or may not play at all.



- Files are defined as tracks and folders are defined as albums.
- This system can access up to:
 - 800 albums (including root folder)
 - 8000 tracks
 - 999 tracks in one album

Unit and media care

Pull out the AC mains lead from the outlet before maintenance.

■ Clean this unit with a soft, dry cloth

- When dirt is heavy, wring a wet cloth tightly to wipe the dirt, and then wipe it with a dry cloth.
- When cleaning the speaker covers, use a fine cloth. Do not use tissues or other materials that can fall apart. Small pieces may get stuck inside the speaker cover.
- Never use alcohol, paint thinner or benzene to clean this unit.
- Before using chemically treated cloth, carefully read the cloth's instructions.

■ Clean discs

DO



DO NOT



Wipe with a damp cloth and then wipe dry.

■ Disc handling precautions

- Handle discs by the edges to avoid inadvertent scratches or fingerprints on the disc.
- Do not attach labels or stickers to discs.
- Do not use record cleaning sprays, benzene, thinner, static electricity prevention liquids or any other solvent.
- Do not use the following discs:
 - Discs with exposed adhesive from removed stickers or labels (rented discs etc.).
 - Discs that are badly warped or cracked.
 - Irregularly shaped discs, such as heart shapes.

■ To dispose or transfer this unit

The unit may keep the user settings information in the unit. If you discard this unit either by disposal or transfer, then follow the procedure to delete the internal memory contents with "All Del" mode, and then return all the settings to the factory defaults to delete the user settings.

(→ 21, "Deleting the internal memory contents (MEMORY)").

(→ 27, "To return the settings to the factory defaults")

Troubleshooting

Before requesting service, make the following checks. If you are uncertain about some of the check points, or if the solutions indicated in the following guide does not resolve the issue, then consult your dealer for instructions.

Do you have the latest firmware installed?

Panasonic is constantly improving the system's firmware to ensure that our customers are enjoying the latest technology. (→ 23)

For further dedicated help, support and advice about your product please visit:

<http://panasonic.jp/support/global/cs/audio/>

(This site is in English only.)

To return the settings to the factory defaults

Perform this procedure when the following situations occur:

- You want to clear and reset the settings.

- ① Turn the unit on.
- ② Touch and hold [⏻/I] on the unit until "Reset?" appears on the display.
- ③ While still holding [⏻/I], touch [SELECTOR, —] PAIRING on the unit. Then release both switches.
"Reset" appears on the display and all the indicators flash. Wait for the display to show "Initializing". After "-----" is displayed, the unit will turn off.



- The settings are returned to the factory defaults. You will need to make the settings again.
- To reset the network settings, perform the operation for network reset. (→ 25)
- The recorded contents in the internal memory are maintained.
 - You cannot restore the pre-recorded sample contents.

General

Cannot turn on the unit.

- After connecting the AC mains lead, wait about 10 seconds before turning on the unit.

Humming heard during playback.

- If an AC mains lead or fluorescent lights are near the cords, then keep other appliances and cords away from the cables.

The unit does not work.

- One of the unit's safety devices may have been activated.
 - ① Touch [⏻/I] on the unit to switch the unit to standby.
 - If the unit does not switch to standby, press and hold [■] on the unit for approximately 10 seconds. The unit is forcibly switched to standby. Alternatively, disconnect the AC mains lead, wait for at least 1 minute, then reconnect it.
 - ② Touch [⏻/I] on the unit to switch it on. If the unit still cannot be operated, consult the dealer.

Charging does not start.

- Select a source other than "USB".
- If charging does not start during standby mode:
Turn the unit on. Check the charging has started, and then turn the unit to standby mode. (→ 6)

Noise is heard or the sound is interrupted.

- Make sure not to place any device which uses radio frequency (e.g. mobile phone, etc.) on top of this unit.

The switches on the top panel of the unit do not work.

- These switches are touch keys. Touch the switches with your finger. They may not work if operated with your fingernails or hands wearing gloves.

Remote control

The remote control does not work properly.

- The battery is depleted or inserted incorrectly. (→ 5)

Disc

Incorrect display or play does not start.

- Make sure that the disc is compatible with this unit. (→ 26)
- There is moisture on the lens. Wait for about an hour and then try again.

USB

No response when [▶/II] is pressed.

- Disconnect the USB device and then reconnect it. Alternatively, turn the unit off and on again.

The USB drive or its contents cannot be read.

- The USB drive format or its contents is/are not compatible with the unit (→ 26).
- The USB host function of this product may not work with some USB devices.

Slow operation of the USB flash drive.

- Large file size or high memory USB flash drive takes longer time to read.

The elapsed time displayed is different from the actual play time.

- Copy the data to another USB device or backup the data and reformat the USB device.

Radio

DAB/DAB+ reception is poor.

- Keep the antenna away from computers, televisions, other cables and cords.
- Use an outdoor antenna.

If noise is excessive during FM reception.

- Change the audio to be output as monaural.
 - ① Press [PLAY MENU] repeatedly to select "FM Mode".
 - ② Press [◀, ▶] to select "Mono" and then press [OK].
The sound becomes monaural.
 - To cancel, select "Stereo" or change the frequency.
- In normal circumstances, select "Stereo".

Static or noisy reception is heard while listening to a radio broadcast.

- Confirm the antenna is properly connected. (→ 5)
- Adjust the position of the antenna.
- Try to keep a certain amount of distance between the antenna and AC mains lead.
- Try using an outdoor antenna if there are buildings or mountains nearby.
- Turn the TV or other audio players off or separate it from this unit.
- Keep this unit away from mobile phones if there is interference.

Bluetooth®

Pairing cannot be completed.

- Check the Bluetooth® device condition.

The device cannot be connected.

- The pairing of the device was unsuccessful or the registration has been replaced. Try re-pairing the device. (→ 13)
- This unit might be connected to a different device. Disconnect the other device and try re-pairing the device. (→ 13)
- If the problem persists, turn the unit off and on, then try again.

The device is connected, but audio cannot be heard through this unit.

- For some built-in Bluetooth® devices, you have to set the audio output to "SC-ALL7CD" manually. Read the operating instructions for the device for details.

The sound is interrupted.

- The device is out of the 10 m communication range. Place the Bluetooth® device closer to this unit.
- Remove any interference between this unit and the device.
- Other devices that use the 2.4 GHz frequency band, such as wireless routers, microwaves, cordless phones, etc. are interfering. Place the Bluetooth® device closer to this unit and distance it from the other devices.
- Select "Mode 1" for stable communication. (→ 13)

Network

Cannot connect to the network.

- Confirm the network connection and settings. (→ 7)
- If the network is set to be invisible, make the network visible while you set up the network for this unit or make a wired LAN connection. (→ 9)
- This system's Wi-Fi security supports WPA2™ only. Your wireless router must therefore be WPA2™ compatible. For details on the security supported by your router and how to change the settings, please refer to the operating instructions or contact your Internet service provider.
- Make sure that the multicast function on the wireless router is enabled.
- Depending on the routers, WPS button may not work. Try other methods. (→ 7)
- Check the "Wireless LAN" setting. (→ 24)

Cannot select this system as the output speakers.

- Make sure that the devices are connected to the same network as this system.
- Reconnect the devices to the network.
- Turn the wireless router off and then on.
- Turn this system off and on, and then select this system as the output speakers again.

Playback does not start.

The sound is interrupted.

- If using the 2.4 GHz band on the wireless router, simultaneous use with other 2.4 GHz devices, such as microwaves, cordless telephones, etc., may result in connection interruptions. Increase the distance between this unit and these devices.
 - If your wireless router supports 5 GHz band, try using the 5 GHz band.
- To change to the 5 GHz band, redo the network settings using an Internet browser (→ 8). On the step 9, make sure to select your network name (SSID) for the 5 GHz band.
- Do not place this system inside a metal cabinet, for it might block the Wi-Fi signal.
- Place this system closer to the wireless router.
- If several wireless devices are simultaneously using the same wireless network as this system, try turning off the other devices or reducing their wireless network usage.
- If the playback stops, check the playback status on the device.
- Reconnect the devices to the network.
- Turn the wireless router off and then on.
- Try a wired LAN connection. (→ 9)

Messages

The following messages or service numbers may appear on the unit's display.

"--:--"

- You plugged the AC mains lead in for the first time or there was a power failure recently. Set the time (→ 22).

"Adjust Clock"

- Clock is not set. Adjust the clock accordingly.

"Adjust Timer"

- Play timer is not set. Adjust the play timer accordingly.

"Auto Off"

- The unit has been left unused for about 20 minutes and will shut down within a minute. Press any button to cancel it.

"Change To CD Mode"

- You can only perform recording when "CD" is selected as the source. Press [CD/Ⓜ] repeatedly to select "CD". (→ 20)

"DL Error"

- The firmware download has failed. Press any button to exit. Please try again later.
- The server cannot be found. Press any button to exit. Make sure that the wireless network is connected to the Internet.

"Error"

- Incorrect operation is performed. Read the instructions and try again.

"F□□□" / "F□□□" ("□□" stands for a number.)

- There is a problem with this unit.
Write down the displayed number, disconnect the AC mains lead and consult your dealer.

"Fail"

- Updating or setting has failed. Read the instructions and try again.

"Initializing"

- The system is carrying out an initializing process. When the process is complete, "Complete" or "-----" will be shown for a few seconds. Wait until the message disappears.

“Level 0”

- There is no link between this system and the wireless router.
Try the following operations:
 - Check that the wireless router is turned on.
 - Turn this system off and on again.
 - Reset the wireless network settings. (→ 7)If the problem persists, consult your dealer.

“Linking”

- This system is trying to connect to the last connected Bluetooth® device when “BLUETOOTH” is selected.
- This system is communicating with the wireless router to complete the network settings.
Depending on the wireless router this process may take a few minutes. Try moving this system closer to the wireless router.

“Network Initializing”

“Setup in Progress, Try Again”

- The system is carrying out an internal process.
 - Wait for approximately 3 minutes.
 - Do not disconnect the AC mains lead. Doing so may cause malfunction.

“No Connect”

- This system cannot connect to the network.
Check the network connection. (→ 7)

“M□ Full” (“□” stands for a number.)

- The selected number for (FAVOURITE) [1] to [5] has stored contents from 5 CDs. You cannot record more than 5 CDs. Delete its contents before making new recordings. (→ 21)

“Memory Error”

- Turn the unit off and disconnect the AC mains lead. Wait for at least 1 minute, then reconnect the AC mains lead. Turn the unit on and try again.
If the problem persists, the contents in the internal memory are corrupted. Delete the internal memory contents with “All Del” mode (→ 21), and make your recordings again.

“Memory Full”

- There is insufficient space in the internal memory.
Delete the recorded contents before making new recordings. (→ 21)

“No Device”

- The USB device is not inserted correctly. Read the instructions and try again (→ 6).

“No Disc”

- Insert the disc to be played (→ 6).

“No Play”

- A CD that is not in CD-DA or MP3 format is inserted. It cannot be played.
- Examine the content. You can only play supported format. (→ 26)
- The files in the USB device can be corrupted. Format the USB device and try again.
- The unit may have a problem. Turn the unit off and then on again.

“No Preset”

- The selected preset channel has not been preset. Preset some channels. (→ 12, 18)

“No Signal”

- This station cannot be received. Check your antenna (→ 5).

“No Track”

- There is no track in the USB device, the internal memory, or under the selected number for the internal memory.

“Not Supported”

- You have connected an unsupported USB device.
- If you have connected a device for charging, select a source other than “USB”.

“PGM Full”

- The number of programmed tracks is more than 24.

“Playerror”

- You played an unsupported file. The system will skip that track and play the next one.

“Reading”

- The unit is checking the “CD”/“USB”/“MEMORY” information. After this display has disappeared, start operating.

“Remote □” (“□” stands for a number.)

- The remote control and this unit are using different codes. Change the code on the remote control.
 - When “Remote 1” is displayed, press and hold [OK] and [1] for at least 4 seconds.
 - When “Remote 2” is displayed, press and hold [OK] and [2] for at least 4 seconds.

“Scan Failed”

- Stations are not receivable. Check your antenna and try Auto scanning (→ 18).
If “Scan Failed” is still displayed find the best signal reception with the “Manual Scan” tuning function. (→ 19)

“SCMS CD Can’t Rec”

- The disc is copy-protected and cannot be recorded.

“Sound □ Not Set” (“□” stands for a number.)

- There is no saved setting under the selected sound setting number. Save the sound settings. (→ 21)

“Try me!”

- This unit is in demo mode. Please return all settings to the factory defaults. (→ 27)

“USB Over Current Error”

- The USB device is drawing too much power. Select a source other than “USB”, remove the USB and turn the unit off.

“VBR”

- The system cannot show the remaining play time for variable bit rate (VBR) tracks.

“Wait”

- This is displayed, for example, when this unit is turning off.
- This is flashing when the system is trying to enter a network setting mode.

The network indicator (→ 4) blinks

- This may occur when, for instance, the network connection is interrupted.

Specifications

■ GENERAL

Power consumption	26 W
Power consumption in standby mode (When "BLUETOOTH Standby" is "Off")*1, *2	Approx. 0.3 W
(When "BLUETOOTH Standby" is "On")*1, *2	Approx. 0.4 W
(When "Net Standby" is "On")*1	Approx. 3.3 W
Power supply	AC 220 V to 240 V, 50 Hz

Dimensions (W×H×D)

450 mm×107 mm×250 mm

Mass Approx. 3.4 kg

Operating temperature range 0 °C to +40 °C

Operating humidity range 35 % to 80 % RH (no condensation)

■ AMPLIFIER SECTION

Output power

RMS Output Power

Front Ch (both ch driven)

20 W per channel (8 Ω), 1 kHz, 10 % THD

Total RMS power 40 W

■ TUNER SECTION

Preset Memory FM 30 stations

Frequency Modulation (FM)

Frequency range

87.50 MHz to 108.00 MHz (50 kHz step)

Antenna terminals 75 Ω (unbalanced)

■ DAB SECTION

DAB memories 20 channels

Frequency Band (Wavelength)

Band III 5A to 13F

(174.928 MHz to 239.200 MHz)

Sensitivity *BER 4x10⁻⁴

Min Requirement -98 dBm

DAB External Antenna

Terminal F - Connector (75 Ω)

■ DISC SECTION

Disc played (8 cm or 12 cm)

CD, CD-R/RW (CD-DA, MP3*)

Pick up

Wavelength 790 nm (CD)

NORSK (NORWAY)

Bølgelengde 790 nm (CD)

Laserstyrke Ingen farlig stråling sendes ut

■ INTERNAL MEMORY SECTION

Memory

Memory size 4 GB

(Equivalent for total storage of 5 CDs recorded in "HQ 1-CD" mode)*4

Memory record

Recording file format

WAV (*.wav) / "HQ 1-CD" mode,

MP3*3 (*.mp3) / "Multi-CD" mode

Bit rate 1141 kbps (WAV),

320 kbps (MP3*3)

Memory recording speed 1×

■ SPEAKER SECTION

Speaker unit(s)

Full Range 6.5 cm Cone type×2

Tweeter 4 cm Dome type×2

Impedance 8 Ω

■ TERMINAL SECTION

USB port

USB port power DC 5 V 1.5 A

USB Standard USB 2.0 High Speed

Media file format support

MP3*3 (*.mp3), AIFF (*.aiff), FLAC (*.flac),

WAV (*.wav), AAC (*.m4a)

Audio support format

MP3*3/AAC*5

Sampling frequency 32/44.1/48 kHz

Audio word size 16 bits

Channel count 2 ch

AIFF/FLAC*6, *7/WAV

Sampling frequency

32/44.1/48/88.2/96/176.4/192 kHz

Audio word size 16 bits/24 bits

Channel count 2 ch

USB device file system FAT12, FAT16, FAT32

Ethernet interface LAN (10BASE-T/100BASE-TX)

Headphones Stereo, 3.5 mm jack

■ Bluetooth® SECTION

Version Bluetooth® Ver.2.1+EDR

Class Class 2

Supported Profiles A2DP, AVRCP

Frequency band 2.4 GHz band FH-SS

Operation Distance 10 m Line of sight

Supported Codec SBC

■ **Wi-Fi SECTION**

Wi-Fi

WLAN Standard	IEEE802.11a/b/g/n
Frequency range	2.4 GHz band/5 GHz band
Security	WPA2™
WPS version	Version 2.0

Audio support format (AllPlay)

MP3*3/AAC	
Sampling frequency	32/44.1/48 kHz
Audio word size	16 bits
Channel count	2 ch
FLAC*6/ALAC/WAV	
Sampling frequency	32/44.1/48/88.2/96/176.4/192 kHz
Audio word size	16 bits/24 bits
Channel count	2 ch



- Specifications are subject to change without notice.
 - Mass and dimensions are approximate.
 - Total harmonic distortion is measured by a digital spectrum analyser.
- *1: No device is connected to the USB port before turning to standby mode.
- *2: Network standby is inactive.
- *3: MPEG-1 Layer 3, MPEG-2 Layer 3
- *4: Equivalent for total storage of 25 CDs of 70-min disc recorded in "Multi-CD" mode.
- *5: Support profile AAC-LC only.
- *6: Uncompressed FLAC files may not operate correctly.
- *7: Support block size from 1152 to 4096.

FLAC Decoder
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**Disposal of Old Equipment and Batteries
Only for European Union and countries with
recycling systems**



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries must not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.

For more information about collection and recycling, please contact your local municipality.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.



**Note for the battery symbol
(bottom symbol):**

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Safety information for customers in Norway

NORSK

ADVARSEL

Produkt

- For å redusere faren for brann, elektrisk støt eller skade på apparatet:
 - Utsett ikke produktet for regn, fukt, drypping eller sprut.
 - Ikke plasser objekter som er fylt med væske, som vaser, på apparatet.
 - Bruk kun anbefalt tilbehør.
 - Fjern ikke deksler.
 - Reparer ikke denne enheten selv, overlat service til kvalifisert servicepersonell.

Vekselstrømnett

- Nettstøpselet er trukket ut fra denne enheten. Installer denne enheten slik at nettstøpselet umiddelbart kan trekkes fra stikkontakten.

FORSIKTIG

Produkt

- Dette produktet anvender en laser. Betjening av kontroller eller justering eller andre inngrep enn de beskrevet i denne bruksanvisning kan føre til farlig bestråling.
- Plasser ikke åpen ild, slik som levende lys, oppå apparatet.
- Dette apparatet er beregnet for bruk under moderate klimaforhold.

Plassering

- For å redusere faren for brann, elektrisk støt eller skade på apparatet:
 - Ikke plasser apparatet i en bokhylle, et innebygget kabinett eller et annet lukket sted. Pass på at produktet er godt ventilert.
 - Apparatets ventilasjonsåpninger må ikke dekkes til med aviser, duker, gardiner eller lignende.



English

Declaration of Conformity (DoC)

Hereby, "*Panasonic Corporation*" declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Customers can download a copy of the original DoC to our R&TTE products from our DoC server:
<http://www.doc.panasonic.de>
Contact to Authorised Representative: Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 11, 22525 Hamburg, Germany
This product is in compliance with the radio standards of the following countries.
GB, DE, AT, BE, DK, SE, FR, IT, NL, FI, PL, HU, CZ, SK, EE, LV, LT, SI, BG, RO, IE, LU, HR, NO, CH, IS, LI
The WLAN feature of this product shall exclusively be used inside buildings.
This product on purpose to connect to access point of 2.4 GHz or 5 GHz WLAN.

Polski

Deklaracja zgodności

Niniejszym "*Panasonic Corporation*" deklaruje, że ten produkt jest zgodny z istotnymi wymaganiami i innymi odpowiednimi postanowieniami dyrektywy 1999/5/WE.
Klienci mogą pobrać oryginalną deklarację zgodności naszych produktów z serwera deklaracji zgodności:
<http://www.doc.panasonic.de>
Kontakt się z autoryzowanym przedstawicielem:
Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 11, 22525 Hamburg, Niemcy
Ten produkt spełnia normy radiowe niżej wymienionych krajów.
GB, DE, AT, BE, DK, SE, FR, IT, NL, FI, PL, HU, CZ, SK, EE, LV, LT, SI, BG, RO, IE, LU, HR, NO, CH, IS, LI
Funkcja WLAN niniejszego produktu może być używana wyłącznie wewnątrz budynków.
Ten produkt służy do podłączenia punktu dostępowego WLAN 2,4 GHz lub 5 GHz.

Česky

Prohlášení o shodě

Společnost "*Panasonic Corporation*" tímto prohlašuje, že tento výrobek je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/EC.
Zákazníci si mohou stáhnout kopii originálu prohlášení o shodě pro naše produkty R&TTE z našeho serveru:
<http://www.doc.panasonic.de>
Oprávněný zástupce:
Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 11, 22525 Hamburg, Německo
Tento výrobek je v souladu s normami pro rádiová zařízení následujících zemí.
GB, DE, AT, BE, DK, SE, FR, IT, NL, FI, PL, HU, CZ, SK, EE, LV, LT, SI, BG, RO, IE, LU, HR, NO, CH, IS, LI
Funkce WLAN tohoto výrobku bude využívána výhradně uvnitř budov.
Tento výrobek lze připojit k přístupovému bodu 2,4 GHz nebo 5 GHz WLAN.

Hrvatski

Deklaracija o podobnosti (DoC)

Ovime, "*Panasonic Corporation*" izjavljuje da je ovaj proizvod udovoljava osnovnim zahtjevima i ostalim relevantnim uvjetima Smjernice 1999/5/EC.
Kupci mogu preuzeti kopiju originalne DoC za naše R&TTE proizvode s našeg DoC poslužitelja:
<http://www.doc.panasonic.de>
Adresa ovlaštenog predstavništva: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 11, 22525 Hamburg, Njemačka
Ovaj proizvod u skladu je s radio normama sljedećih zemalja.
GB, DE, AT, BE, DK, SE, FR, IT, NL, FI, PL, HU, CZ, SK, EE, LV, LT, SI, BG, RO, IE, LU, HR, NO, CH, IS, LI
Funkcija bežične mreže ovog proizvoda treba biti korištena jedino u zatvorenim prostorima.
Ovaj proizvod se spaja na pristupne tačke bežične mreže od 2,4 GHz ili 5 GHz.

Lietuviškai

Atitikties deklaracija (AD)

Bendrovė "*Panasonic Corporation*" patvirtina, kad šis gaminys tenkina direktyvos 1999/5/EB esminius reikalavimus ir kitas taikytinas nuostatas.
Mūsų R&TTE gaminių originalios atitikties deklaracijos kopiją klientai gali atsisiųsti iš mūsų AD servero:
<http://www.doc.panasonic.de>
Įgaliojoto atstovo adresas: "Panasonic Marketing Europe GmbH", Panasonic Testing Centre, Winsbergring 11, 22525 Hamburg, Vokietija.
Šis gaminys atitinka toliau nurodytų šalių radijo ryšio standartus.
GB, DE, AT, BE, DK, SE, FR, IT, NL, FI, PL, HU, CZ, SK, EE, LV, LT, SI, BG, RO, IE, LU, HR, NO, CH, IS, LI
Šio gaminio WLAN savybės naudojamos išskirtinai pastatų viduje.
Šis gaminys yra skirtas prisijungti prie 2,4 GHz arba 5 GHz WLAN.

Slovensko

Izjava o skladnosti (DoC)

S pričujočo izjavo podjetje "*Panasonic Corporation*" izjavlja, da so svoji izdelki skladni s poglavitnimi zahtevami in drugimi odgovarjajočimi predpisi direktive 1999/5/ES.
Stranka lahko naloži izvod izvirnega DoC o naših izdelkih R&TTE s strežnika DoC:
<http://www.doc.panasonic.de>
Pooblaščen zastopnik: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 11, 22525 Hamburg, Nemčija
Ta izdelek je v skladu z radijskimi standardi naslednjih držav.
GB, DE, AT, BE, DK, SE, FR, IT, NL, FI, PL, HU, CZ, SK, EE, LV, LT, SI, BG, RO, IE, LU, HR, NO, CH, IS, LI
Povezava WLAN tega izdelka je namenjena izključno uporabi v objektih.
Izdelek je namenjen priključitvi pri dostopni točki 2,4 GHz ali 5 GHz WLAN.

Slovensky

Vyhlasenie o zhode (DoC)

"Panasonic Corporation" týmto prehlasuje, že tento výrobok je v zhode so základnými požiadavkami a ďalšími príslušnými ustanoveniami smernice 1999/5/ES.

Zákazníci si môžu stiahnuť kópiu pôvodného DoC na naše R&TTE výrobky z nášho servera DoC:

<http://www.doc.panasonic.de>

Kontakt na splnomocneného zástupcu: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 11, 22525 Hamburg, Nemecko

Tento výrobok je v súlade s normami pre rádiové zariadenia nasledujúcich krajín.

GB, DE, AT, BE, DK, SE, FR, IT, NL, FI, PL, HU, CZ, SK, EE, LV, LT, SI, BG, RO, IE, LU, HR, NO, CH, IS, LI

WLAN funkcia tohto výrobku musí byť používaná výhradne vo vnútri budov.

Tento výrobok používa na pripojenie k prístupovému bodu 2,4 GHz alebo 5 GHz WLAN.

Norsk

Samsvarserklæring (DoC)

"Panasonic Corporation" erklærer at utstyret er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF. Kundene kan laste ned en kopi av den originale samsvarserklæringen (DoC) for vårt R&TTE utstyr fra vår DoC server:

<http://www.doc.panasonic.de>

Kontakt vår autoriserte representant: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 11, 22525 Hamburg, Tyskland

Dette produktet oppfyller standardene for radioapparater i følgende land.

GB, DE, AT, BE, DK, SE, FR, IT, NL, FI, PL, HU, CZ, SK, EE, LV, LT, SI, BG, RO, IE, LU, HR, NO, CH, IS, LI

Ustyrets WLAN-funksjon er utelukkende til innendørsbruk.

Ustyreten kan kobles til et tilgangspunkt på 2,4 GHz eller 5 GHz WLAN.

Eesti keel

Vastavusdeklaratsioon (DoC)

"Panasonic Corporation" kinnitab käesolevaga, et see toode on vastavuses põhiliste nõuete ja muude direktiivi 1999/5/EÜ asjakohaste sätetega.

Kliendid saavad koopia meie R&TTE toodetele kehtiva originaalvastavusdeklaratsiooni koopia alla laadida meie DoC-serverist:

<http://www.doc.panasonic.de>

Võtke ühendust volitatud esindajaga: Panasonic Marketing

Europe GmbH,

Panasonic Testing Centre, Winsbergring 11, 22525 Hamburg, Saksamaa

See toode on kooskõlas järgmistele riikide raadiostandarditega.

GB, DE, AT, BE, DK, SE, FR, IT, NL, FI, PL, HU, CZ, SK, EE, LV, LT, SI, BG, RO, IE, LU, HR, NO, CH, IS, LI

Selle toote WLAN-funktsiooni tohib kasutada vaid hoonete sees.

See toode on mõeldud 2,4 GHz või 5 GHz WLAN-pääsupunktilga ühenduse loomiseks.

Български

Декларация за съответствие (DoC)

"Panasonic Corporation" декларира, че този продукт съответства на съществените изисквания и другите приложими разпоредби на Директива 1999/5/EC.

Потребителите могат да свалят копия от оригиналните DoC към нашите продукти от типа R&TTE от сървъра, на който се съхраняват DoC:

<http://www.doc.panasonic.de>

За контакт с оторизиран представител: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 11, 22525 Hamburg, Германия

Този продукт е в съответствие с радиоелектрическите норми на страните по-долу.

GB, DE, AT, BE, DK, SE, FR, IT, NL, FI, PL, HU, CZ, SK, EE, LV, LT, SI, BG, RO, IE, LU, HR, NO, CH, IS, LI

Функцията WLAN на продукта може да се използва единствено в закрити помещения.

Този продукт е предназначен за свързване към точки за достъп от 2,4 GHz или 5 GHz WLAN.

Latviski

Atbilstības deklarācija (DoC)

Kompānija "Panasonic Corporation" ar šo paziņo, ka šis izstrādājums atbilst būtiskām prasībām un citām saistošām Direktīvas 1999/5/EK prasībām.

Pircēji var lejupielādēt oriģinālo DoC kopiju mūsu R&TTE izstrādājumos no mūsu DoC servera:

<http://www.doc.panasonic.de>

Lūdzam sazināties ar pilnvaroto parstāvi

Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 11, 22525 Hamburg, Vācija

Šis izstrādājums atbilst radio standartiem šādās valstīs.

GB, DE, AT, BE, DK, SE, FR, IT, NL, FI, PL, HU, CZ, SK, EE, LV, LT, SI, BG, RO, IE, LU, HR, NO, CH, IS, LI

Šī izstrādājuma WLAN funkciju atļauts lietot tikai iekšējās.

Šo izstrādājumu ir paredzēts savienot ar 2,4 GHz vai 5 GHz WLAN piekļuves punktu.

Român

Declarație de Conformitate (DoC)

Prin prezenta, societatea "Panasonic Corporation" declară că produsul este conform cu cerințele esențiale și cu alte norme corespunzătoare Directivei 1999/5/EC.

Clienții pot descărca o copie a DoC-ului original al produselor noastre R&TTE de la adresa noastră DoC din Internet:

<http://www.doc.panasonic.de>

Contact la Reprezentanța autorizată: Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 11, 22525 Hamburg, Germania

Acest produs respectă standardele radio din următoarele țări.

GB, DE, AT, BE, DK, SE, FR, IT, NL, FI, PL, HU, CZ, SK, EE, LV, LT, SI, BG, RO, IE, LU, HR, NO, CH, IS, LI

Funcția WLAN a acestui produs trebuie să fie folosită numai în interiorul clădirilor.

Acest produs a fost proiectat pentru a fi conectat la access point WLAN 2,4 GHz sau 5 GHz.

Magyar

Megfelelőségi Nyilatkozat (DoC)

Ezennel a, "Panasonic Corporation" kijelenti, hogy a jelen termék kielégíti az 1999/5/EK Irányelv létfontosságú követelményeit és más vonatkozó rendelkezéseit.

A vásárlók letölthetik az R&TTE termékek eredeti DoC másolatát a DoC szerverünkről:

<http://www.doc.panasonic.de>

Forduljon a hivatalos márkaképviselőhöz: Panasonic Marketing Europe GmbH,

Panasonic Testing Centre, Winsbergring 11, 22525 Hamburg, Németország

Ez a termék megfelel az alábbi országok rádió előírásainak.

GB, DE, AT, BE, DK, SE, FR, IT, NL, FI, PL, HU, CZ, SK, EE, LV, LT, SI, BG, RO, IE, LU, HR, NO, CH, IS, LI

A termék WLAN jellemzője kizárólag épületen belül használható.

A termék rendeltetése a 2,4 GHz-es vagy 5 GHz-es WLAN hozzáférési ponthoz kapcsolódás.

Limited Warranty (ONLY FOR AUSTRALIA)

Panasonic Warranty

1. The product is warranted for 12 months from the date of purchase. Subject to the conditions of this warranty Panasonic or its Authorised Service Centre will perform necessary service on the product without charge for parts or labour, if in the opinion of Panasonic, the product is found to be faulty within the warranty period.
2. This warranty only applies to Panasonic products purchased in Australia and sold by Panasonic Australia or its Authorised Distributors or Dealers and only where the products are used and serviced within Australia or it's territories. Warranty cover only applies to service carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when warranty service is requested.
3. This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltages, incorrect installation, accident, misuse, neglect, build-up of dirt or dust, abuse, maladjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, exposure to abnormally corrosive conditions or any foreign object or matter having entered the product.
4. This warranty does not cover the following items unless the fault or defect existed at the time of purchase:
 - (a) Cabinet Part(s)
 - (b) Video or Audio Tapes
 - (c) SD cards or USB devices
 - (d) User replaceable Batteries etc
 - (e) DVD, Blu-ray or Recordable Discs
 - (f) Video / Audio Heads from wear and tear in normal use
 - (g) Information stored on Hard Disk Drive, USB stick or SD card
 - (h) DTV reception issues caused by TV Aerial / Cabling / Wall socket(s)
5. Some products may be supplied with Ethernet connection hardware. The warranty is limited on such products and will not cover
 - (a) Internet and or DLNA connection / setup related problems
 - (b) Access fees and or charges incurred for internet connection
 - (c) The use of incompatible software or software not specifically stipulated in the product operations manual; and
 - (d) Any indirect or consequential costs associated with the incorrect use or misuse of the hardware, its connection to the internet or any other device.
6. To claim warranty service, when required, you should:
 - Telephone Panasonic's Customer Care Centre on 132600 or visit our website referred to below and use the Service Centre Locator for the name/address of the nearest Authorised Service Centre.
 - Send or take the product to a Panasonic Authorised Service Centre together with your proof of purchase receipt as a proof of purchase date. Please note that freight and insurance to and / or from your nearest Authorised Service Centre must be arranged by you.
 - Note that home or pick-up/delivery service is available for the following products in the major metropolitan areas of Australia or the normal operating areas of the nearest Authorised Service Centres:
 - Plasma/LCD televisions / displays (screen size greater than 103 cm)
7. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, de-mounting or remounting of any screen, (and any other ancillary activities), delivery, handling, freighting, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, de-installation, re-installation or transit.

Panasonic Authorised Service Centres are located in major metropolitan areas and most regional centres of Australia, however, coverage will vary dependant on product. For advice on exact Authorised Service Centre locations for your product, please telephone our Customer Care Centre on 132600 or visit our website and use the Service Centre Locator.

In addition to your rights under this warranty, Panasonic products come with consumer guarantees that cannot be excluded under the Australian Consumer Law. If there is a major failure with the product, you can reject the product and elect to have a refund or to have the product replaced or if you wish you may elect to keep the goods and be compensated for the drop in value of the goods. You are also entitled to have the product repaired or replaced if the product fails to be of acceptable quality and the failure does not amount to a major failure.

If there is a major failure in regard to the product which cannot be remedied then you must notify us within a reasonable period by contacting the Panasonic Customer Care Centre. If the failure in the product is not a major failure then Panasonic may choose to repair or replace the product and will do so in a reasonable period of time from receiving notice from you.

**THIS WARRANTY CARD AND THE PURCHASE DOCKET (OR SIMILAR PROOF OF PURCHASE)
SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES**

If you require assistance regarding warranty conditions or any other enquiries, please visit the **Panasonic Australia** website www.panasonic.com.au or contact by phone on **132 600**

If phoning in, please ensure you have your operating instructions available.

Panasonic Australia Pty. Limited

ACN 001 592 187 ABN 83 001 592 187

1 Innovation Road, Macquarie Park NSW 2113

PRO-031-F11 Issue: 4.0

01-01-2011

For the United Kingdom and Ireland customers

Sales and Support Information

Customer Communications Centre

- For customers within the UK: 0344 844 3899
- For customers within Ireland: 01 289 8333
- Monday–Friday 9:00 am - 5:00 pm
(Excluding public holidays).
- For further support on your product, please visit our website: www.panasonic.co.uk

Direct Sales at Panasonic UK

- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Communications Centre
Monday–Friday 9:00 am - 5:00 pm
(Excluding public holidays).
- Or go on line through our Internet Accessory ordering application at www.pas-europe.com.
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK.
- It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products. Take a browse on our website for further details.



(Bottom of product)

Manufactured by: Panasonic Corporation
Kadoma, Osaka, Japan

Importer for Europe: Panasonic Marketing Europe GmbH
Panasonic Testing Centre
Winsbergring 11, 22525 Hamburg, Germany

EU



Panasonic Corporation
Web Site: <http://www.panasonic.com>

