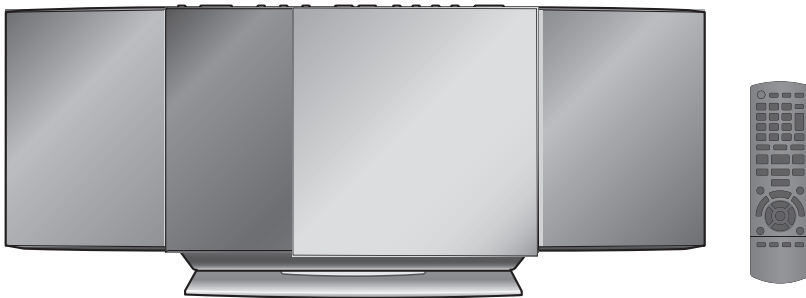




# Operating Instructions Compact Stereo System

Model No. SC-HC55DB  
SC-HC35



## Dear customer

Thank you for purchasing this product.

For optimum performance and safety, please read these instructions carefully.

Please keep this manual for future reference.

### Included Installation Instructions (⇒ 2, 6)

**The installation should never be done by any other than a qualified installation specialist.**

Before commencing work, carefully read these installation instructions and the operating instructions to ensure that installation is performed correctly.

(Please keep these instructions. You may need them when maintaining or moving this unit.)

# 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.
- Install this unit so that the AC mains lead can be unplugged from the socket outlet immediately if any problem occurs.

## CAUTION

### Unit

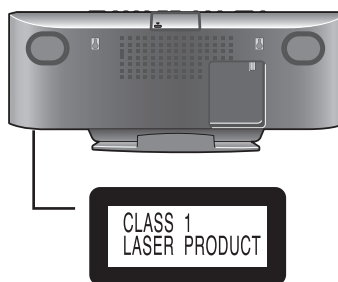
- This unit utilizes a laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Do not place sources of naked flames, such as lighted candles, on this unit.
- This unit may receive radio interference caused by mobile 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.

### Batteries

- 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.
  - 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.
  - Remove batteries if you do not intend to use the remote control for a long period of time. Store in a cool, dark place.
- When disposing the batteries, please contact your local authorities or dealer and ask for the correct method of disposal.



<b>CAUTION</b>	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN - AND INTERLOCKS DEFEATED - DO NOT STARE INTO BEAM. - FDA-21 CFR 101.10.1 (a)
<b>CAUTION</b>	CLASS 1M VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
<b>ATTENTION</b>	RAYONNEMENT LASER VISIBLE ET INVISIBLE, CLASSE 1M, EN CAS D'OUVERTURE ET LORSQUE LA SECURITE EST NEUTRALISEE. NE PAS REGARDER DIRECTEMENT A L'OEIL DES INSTRUMENTS D'OPTIQUE.
<b>VARNING</b>	KLAS 1M SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRRAR ÄR URKOPPLAD. BETRÄKTA EJ STRÅLEN DIREKT GENOM OPTISKT INSTRUMENT.
<b>FORSIGTIG</b>	SYNLIG OG USYNLIG LASERSTRÅLING KLASSE 1M. NÅR LASET ER ÅBENT OG SIKKERHEDS AFBRYDERE ER UDE AF FUNKTION, UNDGÅ AT SE LIGE PÅ MED OPTISKE INSTRUMENTER.
<b>VARO!</b>	AVATTRESSA JA SUOJALUKITUS OHITETTÄSSÄ OLEET ALTIIVNA LUOKAN 1M NÄKYVÄÄ JA NÄKYMÄTÖNÄ LASERSTRÄLÄÄ, ALA KATSO OPTISELLA LAITTEELLA SUORAAAN SATEEKSEN.
<b>VORSICHT</b>	SICHTBARE LASERSTRÄHLUNG KLASSE 1M, WENN ABSCHEIDUNG GEÖFFNET UND SICHERHEITSVERHÄNGELNEN ÜBERBRÜCKT, NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN.
<b>PRECAUTION</b>	RADIACION LASER VISIBLE E INVISIBLE CLASE 1M AL ESTAR ABIERTO Y CON LOS INTERRUPTORES DE BLOQUEO DESHABILITADOS, NO MIRAR DIRECTAMENTE CON INSTRUMENTOS OPTICOS.
<b>注意</b>	雷射光線發射時有可見及不可見光線辐射。避免光線直射。 - POLYST004

(Inside of product)

### -If you see this symbol-

#### Information on Disposal in other Countries outside the European Union



This symbol is only valid in the European Union. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Made for

iPod iPhone

"Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Please note that the use of this accessory with iPod, or iPhone may affect wireless performance.

iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

The Bluetooth® word mark and logos are owned by Bluetooth SIG, Inc. and any use of such marks by Panasonic Corporation is under license. Other trademarks and trade names are those of their respective owners.

MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

Product Identification Marking is located on bottom of the unit.

### About descriptions in these operating instructions



- Operations in these instructions are described using remote control, but you can do the operations with the main unit if the controls are the same. Your unit may not look exactly as illustrated.
- These operating instructions are applicable to models SC-HC55DB and SC-HC35. Unless otherwise indicated, illustrations in these operating instructions are of SC-HC55DB.
  - HC55** indicates features applicable to SC-HC55DB only.
  - HC35** indicates features applicable to SC-HC35 only.
- Pages to be referred to are indicated as "⇒ ∞".
- CD** indicates CD-DA (except MP3).
- MP3** indicates MP3 files.

# Accessories

Check the supplied accessories before using this unit.

- |   |   |
|---|---|
| <input type="checkbox"/> 1 Remote control<br>(HC55 N2QAYB000643)<br>(HC35 N2QAYB000641) | <input type="checkbox"/> 1 Battery for remote control |
| <input type="checkbox"/> HC55<br>1 DAB antenna  | <input type="checkbox"/> 1 AC mains lead              |
| <input type="checkbox"/> HC35<br>1 FM indoor antenna                                    |   |
| <input type="checkbox"/> HC35<br>1 AM loop antenna                                      |   |

## Wall mounting accessories

- |  |   |
|--|---|
| <input type="checkbox"/> 2 Safety holders <b>E</b>                               | <input type="checkbox"/> 1 Safety holder <b>D</b>                                 |
|  |  |
| <input type="checkbox"/> 2 Safety holder screws <b>C</b><br>(Black)              | <input type="checkbox"/> 1 Safety holder screw <b>B</b><br>(Silver)               |
| <input type="checkbox"/> 2 Wall mount brackets                                   | <input type="checkbox"/> 2 Rear pads  |



- Product numbers correct as of February 2011. These may be subject to change.
- Do not use AC mains lead with other equipment.

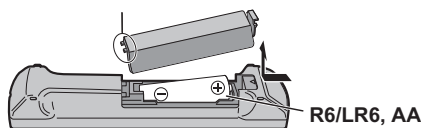
# Table of contents

Safety precautions.....	2
Accessories.....	3
Unit and media care.....	3
Connections .....	4
Attaching the unit to a wall (optional).....	6
Control reference guide .....	8
Opening/Closing the sliding door .....	9
Disc operations .....	10
Radio operations .....	11
Sound adjustment .....	12
Timer .....	12
HC55 DAB operations .....	13
Listening to audio from iPod or iPhone.....	16
HC55 Using a Bluetooth® compatible device.....	17
Listening to audio from a USB device .....	19
Others .....	19
Troubleshooting.....	20
Specifications.....	23

## The remote control information

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

Place this side in before the other side.



- Use alkaline or manganese batteries.

# Unit and media care

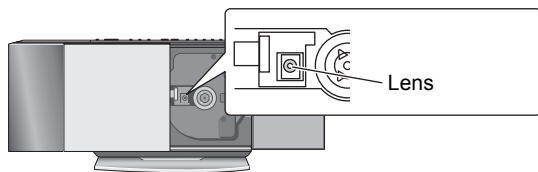
Pull out the AC mains lead from the outlet before maintenance.

## Clean this unit with a soft, dry cloth

- When dirt is heavy, wring the cloth moistened in water tightly to wipe the dirt, and then wipe it with a dried cloth.
- When cleaning the speaker covers, use a fine cloth. Do not use tissues or other materials (towels, etc.) that can fall apart. Small grains 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 instructions that came with the cloth.

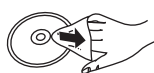
## Maintenance of the lens

- Clean the lens regularly to prevent malfunctions. Use a blower to remove dust and a cotton swab if it is extremely dirty.
- You cannot use a CD type lens cleaner.
- Do not leave the sliding door open for prolonged periods of time. This will cause the lens to get dirty.
- Be careful not to touch the lens with your fingers.



## Clean discs

DO



DO NOT



Wipe with a damp cloth and then wipe dry.

## Disc handling precautions

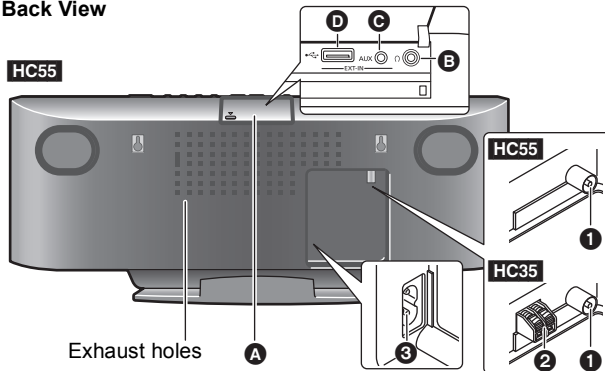
- Handle discs by the edges to avoid inadvertent scratches or fingerprints on the disc.
- Do not attach labels or stickers to discs.
- Do not use record cleaning sprays, benzene, thinner, static electricity prevention liquids or any other solvent.
- Do not use the following discs:
  - Discs with exposed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

# Connections

## ■ Notes on speakers

- These speakers do not have magnetic shielding. Do not place them near a television, personal computer or other devices easily influenced by magnetism.

### Back View



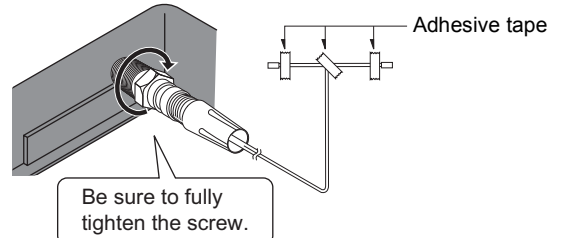
## Basic Connections

### HC55

#### 1 Connect the DAB antenna to receive FM radio and DAB (Digital Audio Broadcasting).

⇒ Go to step 3.

The cross bar of the "T" should be kept firmly stretched. Find a good position with good reception.

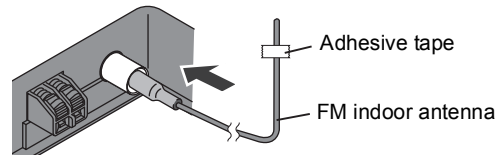


- Tape the antenna to a wall or column, in a position with the least amount of interference.
- Please refer to "Checking the DAB signal reception quality" (⇒ 14).

### HC35

#### 1 Connect the FM indoor antenna.

- Tape the antenna to a wall or column, in a position with the least amount of interference.

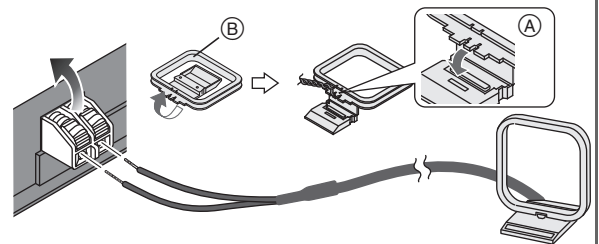


#### 2 Connect the AM loop antenna.

- Keep the loop antenna cord away from other wires and cords.

(A) Stand the antenna up on its base until it clicks.

(B) AM loop antenna



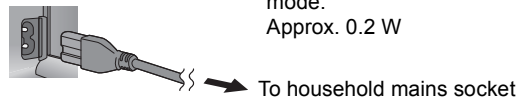
#### 3 Connect the AC mains lead.

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

Turn the unit on after a few seconds.

Power consumption in standby mode:

Approx. 0.2 W

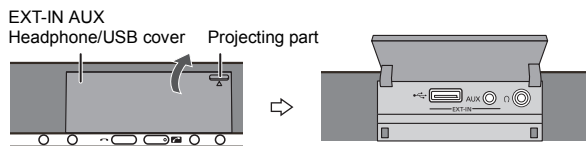


## Additional Connections

Open the EXT-IN AUX/Headphone/USB cover to connect headphones, USB devices or external music devices (e.g. MP3 player).

**Push the projecting part to open the cover **A**.**

**Top View**



### ■ Connect the headphones (not supplied)

Reduce the volume level and connect the headphones.

Plug type: Ø3.5 mm stereo **B**



- Listening at full volume for long periods may damage the user's ears.
- To prevent hearing damage, avoid listening for prolonged periods of time. Excessive sound pressure from earphones and headphones can cause hearing loss.

### ■ Connect an external music device (for AUX mode)

- 1 Plug the audio cable (not supplied) into the EXT-IN AUX jack **C**.

Plug type: Ø3.5 mm stereo



- 2 Press [EXT-IN, RADIO] repeatedly to select "AUX" and start playback on the connected device.

You can select the sound input level of the external device.

**HC55** ① Press [SOUND] repeatedly to select "INPUT LEVEL".

- 2 Press [◀, ▶] to select "HIGH" or "NORMAL".

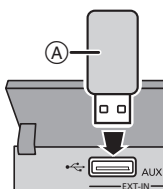
**HC35** Press [INPUT LEVEL] repeatedly to select "HIGH" or "NORMAL".

- Switch the equalizer off or turn the volume of the external device down to reduce the input signal. High level of input signal will distort the sound.
- For details, refer to the instruction manual of the other equipment.
- Cables and devices are not supplied.

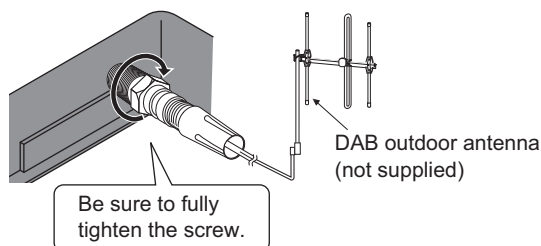
### ■ Connect the USB device (not supplied)

- 1 Reduce the volume level and plug the USB device **A** into the USB terminal **D**.

- 2 Press [EXT-IN, RADIO] repeatedly to select "USB" and start playback. (⇒ 19)



## HC55 DAB outdoor antenna (Optional)



- Use DAB outdoor antenna for better reception.
- The antenna should only be installed by a competent technician.
- Never use the outdoor antenna during lightning storm.
- Please refer to "HC55 DAB operations" (⇒ 13).

# Attaching the unit to a wall (optional)

## Installation accessories

### ■ Supplied accessories

- 1 Safety holder screw **(B)** (Silver)
- 2 Safety holder screws **(C)** (Black)
- 1 Safety holder **(D)** (⇒ 3)
- 2 Safety holders **(E)** (⇒ 3)
- 2 Wall mount brackets
- 2 Rear pads

### ■ Commercially available accessories (not supplied)

- 4 Wall bracket fixing screws **(F)**
- 1 Safety holder fixing screw **(G)**

- Keep the wall mount brackets out of reach of children to prevent swallowing.
- Keep the rear pads out of reach of children to prevent swallowing.
- Keep the screws out of reach of children to prevent swallowing.
- Keep the safety holder out of reach of children to prevent swallowing.



- Use screws with a nominal diameter of  $\varnothing 4$  mm, which are suitable to the material of the wall (e.g., wood, steel, concrete, etc.)

### ■ Notes on installation

- Before installation, read the “Safety precautions” and “Wall mount instructions” for correct installation.
- For optimal performance and to prevent potential problems, do not install this unit:
  - at locations other than vertical walls.
  - near a sprinkler or a sensor.
  - near high-voltage lines or power sources.
  - near heating device.
  - at locations where the unit is subject to vibration or impact.
  - near sources of magnetism, heat, vapour, airborne grease, etc.
  - at locations where there may be water droplets (e.g. under an air conditioner).
- Do not install this unit under ceiling lights (e.g. spotlight, halogen light, etc.).
  - Failure to do so may bend the cabinet or lead to damage caused by high heat.
- Use a proper installation method that suits the structure and material of the wall.
- Use a soft blanket or cloth to prevent damage to the product or floor during installation.
- When tightening screws, make sure the screws are not loosely-tightened or overtightened.
- Secure a safe surrounding area and pay attention to safety during installation.
- Panasonic is not liable for incidental or consequential damages resulting from improper installation or operation.

## Safety precautions

### WARNING!

- Only a qualified building contractor shall install or uninstall this unit.
  - Improper installation may cause the unit to fall, resulting in injury.
- To prevent injury, the unit must be securely attached to the wall in accordance with the installation instructions.
- Do not install the unit where it cannot support the load.
  - If the mounting parts are not strong enough, this may cause the unit to fall, resulting in injury.
- Do not use installation methods other than instructed.
  - This may cause the unit to fall and be damaged, resulting in injury.
- Do not install the unit at locations other than vertical walls.
  - This may cause the unit to fall and be damaged, resulting in injury.
- Take the safety factor for mounting strength into account.
  - Insufficient strength will cause the unit to fall, resulting in injury.
- The wall on which the unit is to be attached to should be capable of supporting 33 kg per screw.
  - Insufficient strength of the walls will cause the unit to fall in the long run.
- Do not disassemble or modify the wall-mounting hanger.
  - This will cause the unit to fall and be damaged, resulting in injury.

### CAUTIONS!

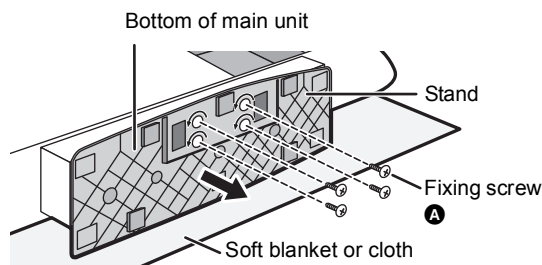
- Do not install this unit at humid or dusty locations, or locations where airborne grease or steam may come into contact with the unit, or under an air conditioner where water may drip onto the unit.
  - This may have negative impact on the unit, resulting in fire or electric shock.
- Secure enough space of more than 30 cm above the main unit and more than 10 cm on the left and right sides respectively. Keep space between the wall and rear of the unit clear of obstructions.
  - Blocking the exhaust holes on the main unit may result in fire.
- Use the designated components for installation.
  - Otherwise, the main unit may fall and be damaged, resulting in injury.
- Prevent the mounting screws or AC mains lead from coming into contact with metal parts inside the wall during installation.
  - Failure to do so may cause electric shock.
- When removing the main unit, remove the wall mounting screws as well.
  - Otherwise the wall mounting screws may hit a person and lead to injury.
- Install the unit at a height where the USB port and operation buttons can be seen for safe operation.
  - Operating at improper position may cause the unit to fall and be damaged, resulting in injury.

## Wall mount instructions

Before installation, turn the unit off and disconnect the AC mains lead from the household mains socket.

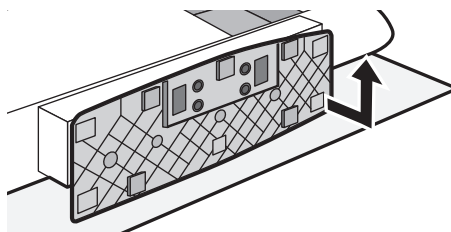
### 1 Detach the stand from the unit.

- ① Unscrew the fixing screw **(A)** (4 pieces) at the bottom of the unit.



- ② Gently pull the bottom of the stand and slide the stand off the unit.

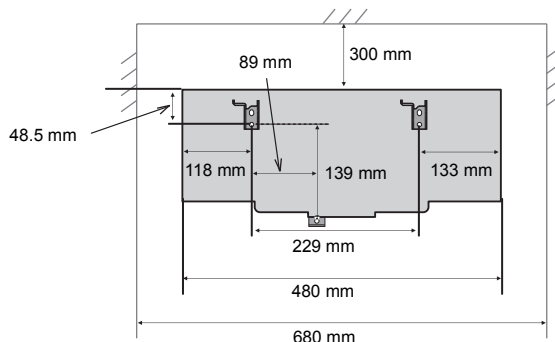
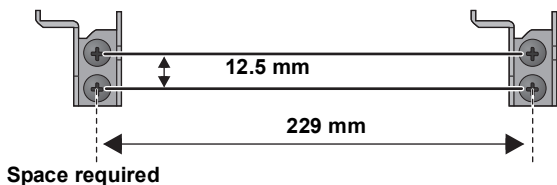
- Keep the removed screws and stand in a safe place.



## 2 Measure and mark the position of the wall mount brackets (Both sides).

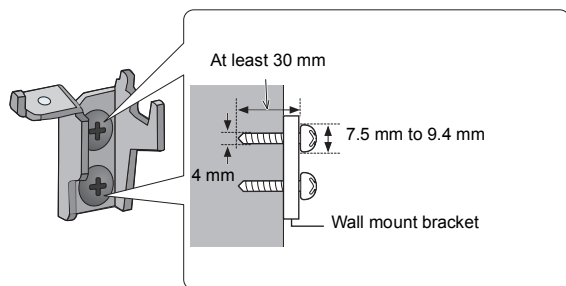
- Use figures below to identify the screwing positions.

### The position to attach the wall mount brackets



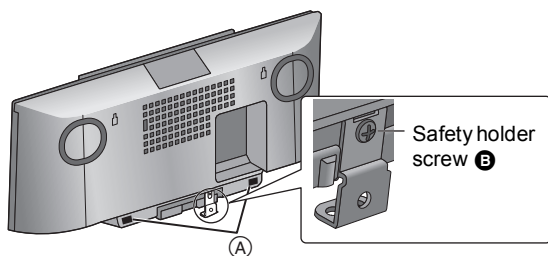
## 3 Attach the wall mount bracket to the wall with 2 screws ②. (Both sides)

- Use a spirit level to ensure both wall mount brackets are level.
- Use a screw which is strong enough to support the weight of at least 33 kg.



## 4 Fix the safety holder ① onto the unit with the safety holder screw ③.

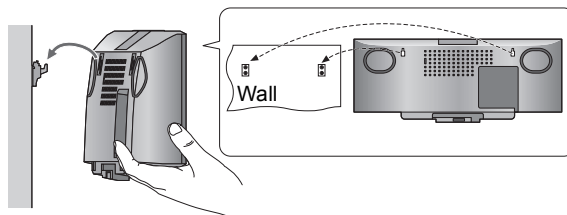
- Before attaching, stick the rear pads (supplied) to ④.
- Screw tightening torque: 80 N•cm to 120 N•cm.



## 5 Hang the unit on the wall.

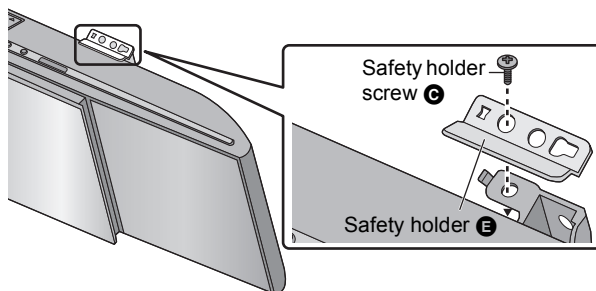
### Hook the unit securely onto the wall mount brackets.

- Connect the DAB antenna (HC55) or FM/AM antenna (HC35) and the AC mains lead to the unit before hanging the unit onto the wall. (⇒ 4)
- After hanging the unit, release your hand carefully to confirm the unit sits securely on the wall.



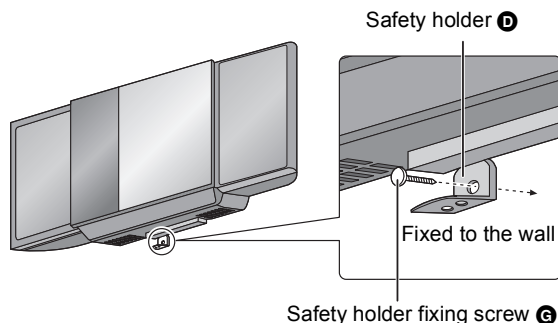
## 6 Fix the safety holders ⑤ onto the wall mount brackets with the safety holder screws ⑥. (Both sides)

- Screw tightening torque: 80 N•cm to 120 N•cm.



## 7 Drive the safety holder fixing screw ⑦ to secure the safety holder ① onto the wall.

- Refer to step 3 for requirements before screwing.

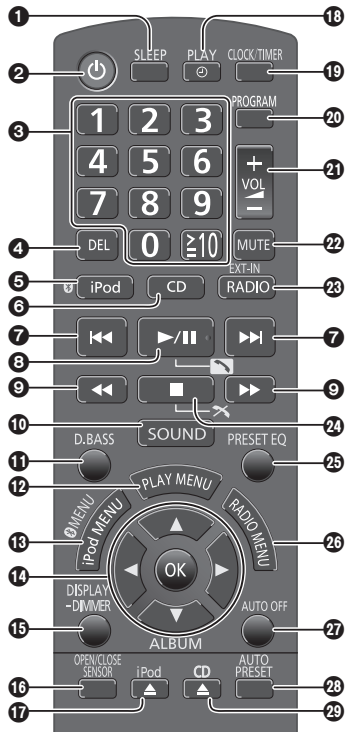




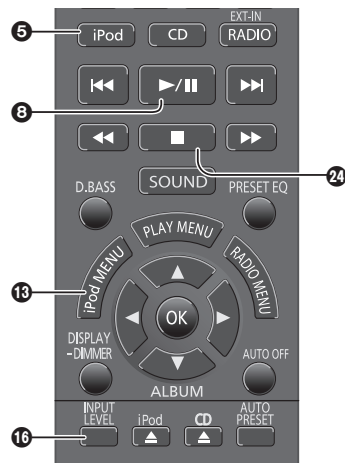
# Control reference guide

## Remote control

### HC55

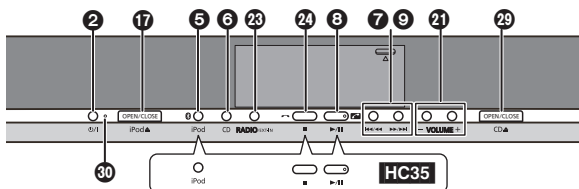


### HC35

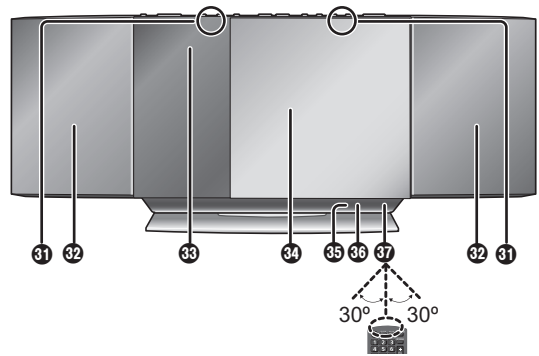


## Main unit

Buttons such as 2 function the same as the remote control. They can be used interchangeably.  
Top view



### Front view



- 1 [SLEEP] (⇒ 12)
- 2 Standby/on switch [⏻], [⏻/⏻] (⇒ 9, 10, 12, 19)  
Press 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.
- 3 Numeric buttons [1-9, 0, ≥10] (⇒ 10, 11, 14, 19)  
To select a 2-digit number  
e.g. 16: [≥10] → [1] → [6]  
To select a 3-digit number  
e.g. 226: [≥10] → [≥10] → [2] → [2] → [6]
- 4 [DEL] (⇒ 10)
- 5 HC55 [⏻], iPod (⇒ 16, 17)
- 6 HC35 [iPod] (⇒ 16)
- 7 [CD] (⇒ 10)
- 8 [◀▶], [▶▶] (⇒ 10, 11, 14, 16, 17, 19)
- 9 [▶▶], [▶▶] (⇒ 10, 11, 14, 16)
- 10 [SOUND] (⇒ 5, 9, 12, 18)
- 11 [D.BASS] (⇒ 12)
- 12 [PLAY MENU] (⇒ 10)
- 13 [iPod MENU] (⇒ 16)
- 14 HC55 [⏻] MENU (⇒ 18)
- 15 [▶▶], [▶▶], [OK] (⇒ 5, 10, 11, 12, 14, 16, 18, 19)
- 16 [DISPLAY] (⇒ 10, 15, 18)
- 17 [DIMMER]  
Press and hold to dim the display panel. Press and hold again to cancel.
- 18 HC55 [OPEN/CLOSE SENSOR] (⇒ 9)  
HC35 [INPUT LEVEL] (⇒ 5)
- 19 [CLOCK/TIMER] (⇒ 12)
- 20 [PROGRAM] (⇒ 10, 11, 14)
- 21 [+ VOL, -]  
[- VOLUME +] (⇒ 18)  
Adjusts sound volume.
- 22 [MUTE] (⇒ 18)  
Mutes the sound. Press again to cancel. "MUTE" is also cancelled when the volume is adjusted or the unit is turned off.
- 23 [EXT-IN, RADIO]  
[RADIO/EXT-IN] (⇒ 11, 14, 19)
- 24 [■] (⇒ 10, 16, 17, 19)
- 25 HC55 [⏻] (⇒ 18)
- 26 [PRESET EQ] (⇒ 12)
- 27 [RADIO PRESET] (⇒ 11, 14, 15)
- 28 [AUTO OFF]  
This function allows you to turn the unit off (except in radio mode) after the unit is left unused for about 30 minutes. When the function is turned on, the "A.OFF" indicator light.
- 29 [CD ▲] (⇒ 9)  
[CD ▲, OPEN/CLOSE]  
HC55 Sensor activity indicator\*
- 30 Standby indicator
- 31 HC55 Open/Close sensor (⇒ 9)
- 32 Speaker
- 33 Display
- 34 Sliding door
- 35 HC55 Microphone (⇒ 18)
- 36 HC55 Bluetooth® indicator (⇒ 17)
- 37 Remote control signal sensor  
Distance:  
Within approx. 7 m directly in front.

\* The sensor activity indicator will light when the Open/Close sensor is turned on. One of the indicators will flash while the sliding door is opening or closing.



# Opening/Closing the sliding door

## Preparation

Press [⏻] to turn the unit on.

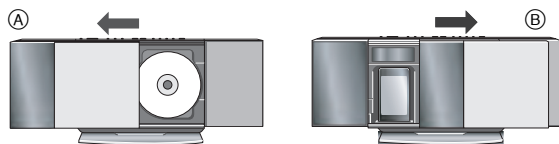
## Opening the sliding door

For disc operations:

- Ⓐ While the sliding door is closed, press [CD ▲] to open the sliding door.

For iPod/iPhone operations:

- Ⓑ While the sliding door is closed, press [iPod ▲] to open the sliding door.



## Closing the sliding door

Press [CD ▲] or [iPod ▲] again.

- Keep fingers away from the sliding door when it is closing to avoid possible minor injuries.



- Damage may occur if the sliding door is forced closed.
- Be careful of CD hitting the sliding door while being removed.
- The sliding door will not close if the docking switch lever is not returned to the original position.

## HC55 Open/Close sensor

With this function the sliding door can be opened without pressing a button. The sliding door will open or close by moving the palm of your hand over the sensors on the top of the unit.

For disc operations:

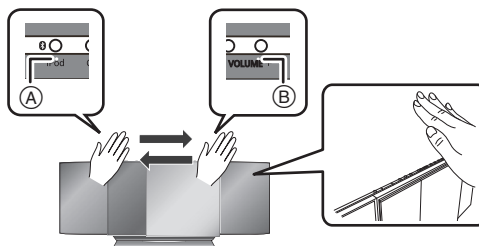
**Place the palm of your hand over sensor Ⓑ and then move it over sensor Ⓐ.**

- To close the sliding door, place the palm of your hand over sensor Ⓐ and then move it over sensor Ⓑ.

For iPod/iPhone operations:

**Place the palm of your hand over sensor Ⓐ and then move it over sensor Ⓑ.**

- To close the sliding door, place the palm of your hand over sensor Ⓑ and then move it over sensor Ⓐ.



## To change the setting of the open/close sensor

The sensitivity of the sensor can be changed to increase or decrease the activating area of the open/close sensor.

**Press [OPEN/CLOSE SENSOR] repeatedly to select "MODE 1", "MODE 2", "MODE 3" or "OFF SENSOR".**

Select the mode that allows correct operation.

- Factory preset: "MODE 2"
- To turn the open/close sensor off, select "OFF SENSOR".

## To change the sound effect settings of the open/close sensor

- ① Press [SOUND] repeatedly to select "BUZZER".
- ② Press [◀] or [▶] to select the following setting.

<b>LOW:</b>	Set the sound effect level to low.
<b>MID:</b>	Set the sound effect level to medium.
<b>HIGH:</b>	Set the sound effect level to high.
<b>OFF:</b>	Turn the sound effect off.

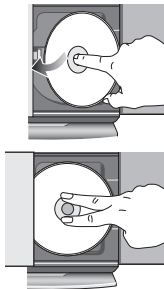


- A red light is lit from the position of the sensor. This is normal.
- The open/close sensor might be unintentionally activated if an object, hand, part of your arm, pets or children move over the top of the unit.
- If the open/close sensor does not react, move the palm of your hand closer to the top of the unit and change the speed that you move your hand.
- If the open/close sensor does not work, try changing the sensor's setting. If it still does not work, open/close the sliding door using the buttons on the unit or the remote control.
- When the sensor setting is changed to "MODE 1", move your hand closer (approx. 3 cm) over the unit.
- The disc operation side of the sliding door will not open during CD playback or pause.

# Disc operations

## Inserting a disc

- 1 Press [⏻] to turn the unit on.
- 2 Open the sliding door. (⇒ 9)
- 3 With the label of the disc facing towards you, tilt the disc into the disc tray under the sliding door.



- 4 Place the disc onto the spindle in the centre and then push the disc down until it clicks into place.

- Make sure that the unit does not fall when inserting the disc.

- 5 Close the sliding door. (⇒ 9)

## Removing a disc

- ① Open the sliding door.
- ② Hold the centre and the top right of the disc and pull the top right of the disc to unlock it from the spindle.
- ③ Tilt the disc so as not to touch the sliding door or the lens and remove the disc.

## Basic play

- 1 Press [⏻] to turn the unit on.
- 2 Insert the disc to be played.
- 3 Press [CD].
- 4 Press [▶/||] to start play.

<b>Stop</b>	Press [■].
<b>Pause</b>	Press [▶/  ]. Press again to resume play.
<b>Skip</b>	Press [◀◀] or [▶▶] to skip track. Press [▲, ▼] to skip album. (MP3)
<b>Search [CD]</b>	Press and hold [◀◀] or [▶▶].
<b>Direct access play</b> (Play starts from the track you selected.)	<b>[CD]:</b> Press the numeric buttons to select the track. <b>[MP3]:</b> ① Press [▲, ▼] to select the album. ② Press [▶▶] once and then the numeric buttons to select the track. • This function does not work during random play or program play.
<b>View contents information</b>	Press [DISPLAY] repeatedly during play or pause. The current track's information, etc. is displayed. • Maximum number of displayable characters: approximately 30 • This unit supports ver. 1.0, 1.1 and 2.3 ID3 tags. Text data that is not supported will not be displayed or shown differently.

## Repeat play

After performing steps 1-3 in "Basic play"

- 1 Press [PLAY MENU] repeatedly to select "REPEAT".
- 2 Press [◀, ▶] to select "ON REPEAT" and press [OK].
- 3 Press [▶/||] to start play.  
• To stop repeat play, select "OFF REPEAT" in step 2.

## Play mode function

After performing steps 1-3 in "Basic play"

- 1 Press [PLAY MENU] repeatedly to select "PLAY MODE".
- 2 Press [◀, ▶] to select the following mode and press [OK].

<b>1-TRACK 1TR:</b>	Plays one selected track on the disc.
<b>1-ALBUM 1ALBUM:</b>	Plays one selected album on the disc. • Press [▲, ▼] to select the album.
<b>[MP3] RANDOM RND:</b>	Plays a disc randomly.
<b>1-ALBUM RANDOM 1ALBUM RND:</b>	Plays all tracks in one selected album randomly. • Press [▲, ▼] to select the album.

- 3 Press [▶/||] to start play.



- During random play, you cannot skip to the previous track.
- The current play mode is cleared when you open the sliding door.
- To repeat program play or selected play mode, select "ON REPEAT" in PLAY MENU.

## Program play

Enables you to program up to 24 tracks.  
After performing steps 1-3 in "Basic play"

- 1 Press [PROGRAM] during the stop mode.
- 2 **[CD]:**  
Press the numeric buttons to select the track.  
• To program more tracks, continue by pressing the numeric buttons.  
**[MP3]:**  
① Press [▲, ▼] to select the album.  
② Press [▶▶] once and then the numeric buttons to select the track.  
③ Press [OK].  
To program more tracks, repeat steps ① - ③.

- 3 Press [▶/||] to start play.

<b>Cancel programme mode</b>	Press [PROGRAM] in the stop mode to clear "PGM" indicator from the display.
<b>Check programme contents</b>	Press [◀◀] or [▶▶] when "PGM" is displayed in the stop mode.
<b>Delete last programmed track</b>	Press [DEL] in the stop mode.
<b>Clear all programmed tracks</b>	① Press [■] in the stop mode. ② Press [■] again while blinking "CLR ALL".



- The program memory is cleared when you open the sliding door.

## ■ Notes on CD-R/CD-RW

- This unit can play CD-R and CD-RW recorded with CD-DA or MP3.
- Use an audio recording disc for CD-DA and finalize\* it when you finish recording.
  - \* A process performed after recording that enables CD-R or CD-RW players to play audio CD-R and CD-RW.
- The unit may not be able to play some discs due to the condition of the recording.
- Do not use irregularly shaped CDs.
- Do not attach extra labels and stickers.
- Do not use CDs with labels and stickers that are coming off or with excessive adhesive under the labels and stickers.
- Do not attach scratch-proof covers or any other kind of accessories.
- Do not write anything on the CDs.
- Do not clean CDs with liquids (Wipe with a soft and dried cloth).

## Creating MP3 files playable on this unit

- Maximum number of tracks and albums: 999 tracks and 254 albums (Excluding Root folder).
- Compatible compression rate: Between 64 kbps and 320 kbps (stereo). 128 kbps (stereo) is recommended.
- Disc formats: ISO9660 level 1 and level 2 (except for extended formats).
- The time for reading TOC depends on the number of the tracks, folders or folder structures.

## Limitations on MP3

- This unit is compatible with multi-sessions and it takes more time to start playing.
- This unit cannot play files recorded using packet write.
- 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. If the disc includes both MP3 and other types of audio data (e.g. WMA or WAV), the unit plays only the MP3.
- Depending on how you create the MP3 files, they may not play in the order you numbered them or may not play at all.

# Radio operations

## Manual tuning

- 1 Press [EXT-IN, RADIO] repeatedly to select "FM" or **HC35** "AM".
- 2 Press [◀◀] or [▶▶] to select the frequency of the required station.
  - "ST" is displayed when a stereo FM broadcast is being received.
  - To tune automatically, press and hold [◀◀] or [▶▶] until the frequency starts changing rapidly.
    - To cancel auto tuning, press [◀◀] or [▶▶] once again.
    - Auto tuning may not function when there is excessive interference.

## ■ To improve FM sound quality

- ① Press [RADIO MENU] to select "FM MODE" while receiving FM broadcasts.
- ② Press [◀, ▶] to select "MONO" and then press [OK].
  - Select "STEREO" in step ② to return to stereo broadcasts.
  - "MONO" is canceled if the frequency is changed.

## ■ **HC35** To improve AM sound quality

- ① Press [RADIO MENU] to select "B.PROOF" while receiving AM broadcasts.
- ② Press [◀, ▶] to select the beat proof setting ("BP 1" or "BP 2") and press [OK].
  - This setting is reset to "BP 1" when changes are made (e.g. frequency is changed).

## Memory preset

You can preset up to 30 FM channels and **HC35** 15 AM channels.

### Preparation

Press [EXT-IN, RADIO] repeatedly to select "FM" or **HC35** "AM".

### ■ Automatic presetting

- ① Press [OK] to switch between the "LOWEST" and "CURRENT" frequency.
- ② Press [AUTO PRESET].  
"PGM" starts to flash and the tuner starts to preset all the stations it can receive into the channels in ascending order.

### ■ Manual presetting

- ① Press [◀◀] or [▶▶] to tune to the required station.
- ② Press [PROGRAM].
- ③ While "PGM" is flashing, press the numeric buttons to select a channel.
  - The station occupying a channel is erased if another station is preset in that channel.
  - To preset more stations, repeat steps ① - ③.

### ■ Selecting a preset station

Press [◀◀] or [▶▶] to select the channel.

- Alternatively, press the numeric buttons to select the channel.

## **HC35** AM frequency step

This unit is factory-set to AM 9 kHz, but you can change it to receive broadcasts allocated in AM 10 kHz steps.

To change the step

- ① Press [EXT-IN, RADIO] to select "AM".
- ② Press and hold [RADIO/EXT-IN] on the main unit.  
After a few seconds the display changes to display current minimum frequency.
- ③ Continue to hold down [RADIO/EXT-IN] on the main unit.  
When the minimum frequency changes, release the button.
  - To return to the original step, repeat steps ① - ③.
  - After the setting is changed, any previously preset frequency will be cleared.

# Sound adjustment

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

Preset EQ	Press [PRESET EQ] repeatedly to select "HEAVY", "SOFT", "CLEAR", "VOCAL" or "FLAT".
Bass or Treble	<ol style="list-style-type: none"> <li>Press [SOUND] repeatedly to select "BASS" or "TREBLE".</li> <li>Press [◀, ▶] to adjust the level (-4 to +4).</li> </ol>
Surround Sound	<ol style="list-style-type: none"> <li>Press [SOUND] repeatedly to select "SURROUND".</li> <li>Press [◀, ▶] to select "ON SURROUND". <ul style="list-style-type: none"> <li>To cancel surround sound, select "OFF SURROUND" in step ②.</li> <li>If interference in FM stereo reception increases, cancel the surround sound effect.</li> </ul> </li> </ol>
D.Bass	Press [D.BASS] during play to select "ON D.BASS" or "OFF D.BASS".

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

# Timer

## Setting the clock

This is a 24-hour clock.

- Press [CLOCK/TIMER] to select "CLOCK".
- Within 10 seconds, press [▲, ▼] to set the time.
- Press [OK].



- To display the clock, press [CLOCK/TIMER].
- Reset the clock regularly to maintain accuracy.

## Play timer

You can set the timer to come on at a certain time to wake you up.

This unit offers 3 optional play timers.

### Preparation

- Turn the unit on and set the clock (⇒ above).
- Prepare the music source (disc, radio, iPod/iPhone, USB or AUX) and set the volume.

- Press [CLOCK/TIMER] repeatedly to select "⏮ PLAY 1", "⏮ PLAY 2" or "⏮ PLAY 3".
- Within 10 seconds, press [▲, ▼] to set the starting time.
- Press [OK].
- Set the finishing time by repeating steps 2 and 3.
- To activate the timer
- Press [PLAY, ⏮] repeatedly to set the desired play timer on.
- Press [⏻] to turn the unit off.

Check the settings  
(When the unit is  
on or in standby  
mode)

Press [CLOCK/TIMER] twice.  
(The setting is displayed.)

Cancel

Press [PLAY, ⏮] twice to clear the timer  
indicator from the display.



- The timer will start at the preset time, with the volume increasing gradually to the preset level.

## Sleep timer

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

- Press [SLEEP] to turn the sleep function on or off.  
30MIN → 60MIN → 90MIN → 120MIN  
↑ OFF (Cancel) ↓
- Press [SLEEP] once to check the remaining time.

- The play timer and sleep timer can be used together. The sleep timer always has the priority. Be sure not to overlap the timer settings.
- When "AUTO OFF" is "ON" and the unit is left unused for about 30 minutes, the unit will shut down even if the play time or sleep time has not expired.

# HC55 DAB operations

DAB (Digital Audio Broadcasting) is a new form of radio that is broadcast digitally. Unlike regular analogue broadcasting, digital radio deteriorates less, and is thus able to provide quality sound closer to that of a disc.

## DAB structure

### Bands

There are two types of DAB bands, "BAND III" (receivable in this unit) and "L BAND" (not broadcast in Australia and not receivable on this unit).

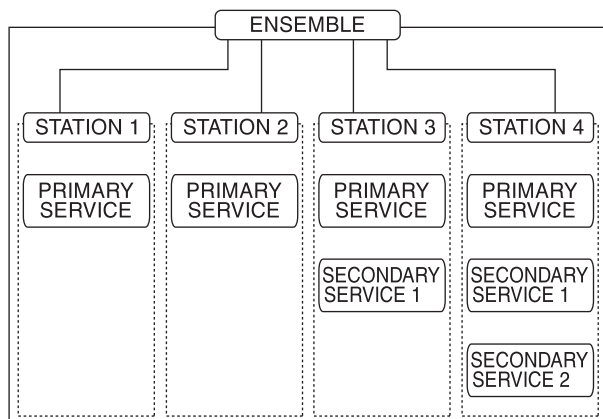
### Frequencies

There are 38 frequencies on BAND III. Among these, 3 are used in Australia (current as of February, 2011).

### Ensemble, station and service

The number of stations that makes up one frequency differs between DAB and analogue radio. Analogue stations broadcast on different frequencies, even if it is the same company doing the broadcasting. With DAB, however, it is possible to broadcast a number of stations on the same frequency.

In DAB terminology, an ensemble represents a group of stations on the same frequency.



As shown in the diagram, an ensemble consists of a group of stations with primary services and secondary services. This means, for example, that commentary on sports events from different areas can all be broadcast at once.

## DAB reception method on this unit

Depending on the region, there is a difference between broadcast frequency and stations broadcast along the same frequency.

For this reason, a memory of receivable stations should first be created and then selected from those memorised stations as the reception method.

### DAB Auto scan

This function searches for currently receivable stations and inputs them into the unit's memory.

When DAB is selected for the first time, this function starts automatically.

- Depending on some factors such as the broadcasting time availability, the station may not broadcast even if it is stored into the memory. If this occurs, "NO SERVICE" is displayed.

### Station memory updating

When there is a station name change, or a new station begins broadcasting, the unit memory is automatically updated when:

- the previous station name is selected.
- a new station is on the same frequency as another already memorised station.

Deleting stations that are no longer broadcasting is not automatic. If you want to delete a station, perform Auto scan again and a new memory will be created.

When a new frequency begins broadcasting, stations on the new frequency are not automatically added to the memory.

Perform Auto scan to add them to the memory. You may also need to change the Auto scan range if the new frequency is outside the factory-set Auto scan range (⇒ 15).

### Station tune

You can select stations from the created memory (⇒ 14) in alphanumeric order.

### Preset function

You can easily select your favourite stations by using the preset function (⇒ 14).

## Initial DAB settings

The first time "DAB+" is selected, this unit will start the "DAB AUTO SCAN" and memorise the stations that are available in your region.

**Press [EXT-IN, RADIO] repeatedly to select "DAB+".**

DAB AUTO

11

123-ENSE

7 STATIO

ABC DAB

When a frequency is tuned, the ensemble corresponding to the frequency is displayed.

The total number of available stations is displayed.

The station first in alphanumeric order is selected.



- "SCAN FAILED" is displayed when the Auto scan is unsuccessful. Adjust the antenna and restart the Auto scanning (⇒ 14) or change the Auto scan frequency range (⇒ 15).

## Checking the DAB signal reception quality

With this function it is possible to check the signal reception quality of a selected frequency. If the reception quality is poor, try adjusting the antenna.

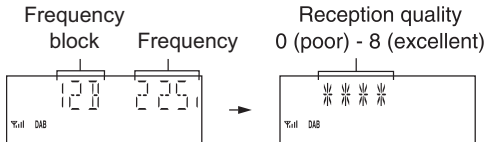
### Preparation

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

**1 Press [RADIO MENU] repeatedly to select "SIGNAL QUALITY".**

**2 Press [◀, ▶] to select the frequency.**

- After displaying the frequency, the current reception quality is displayed.



**3 To continue checking the quality of other frequencies Press [◀, ▶] again and select the desired frequency.**

### To exit

Press [RADIO MENU].

- If the antenna has been adjusted, perform Auto scanning and update the station memory. (⇒ below)

## To re-Auto scan DAB stations

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

**1 Press [RADIO MENU] repeatedly to select "AUTOSCAN" and then press [OK].**

**2 While "START ?" is flashing, Press [OK].**



- When updating the memory with Auto scan, preset stations will be erased. Preset them again (⇒ right).
- When a frequency is tuned using Auto scanning, the ensemble corresponding to the frequency is displayed for approximately 2 seconds.
- Total stations received is displayed for approximately 2 seconds.

## Listening to DAB stations

On this unit, there are 2 ways of selecting the desired station.

### Preparation

- Press [EXT-IN, RADIO] repeatedly to select "DAB+".
- Make sure that the initial settings are made. (⇒ 13)

**To select by station (alphanumeric order)**

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

**To select by preset**

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

- Alternatively, press the numeric buttons to select the channel.



- To select by preset, make sure that stations have already been preset manually. (⇒ below)

## Presetting stations manually

You can preset up to 20 DAB channels.

### Preparation

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

**1 Press [◀◀] or [▶▶] to select the station.**

**2 Press [PROGRAM].**

**3 Press the numeric buttons to select the channel.**



- 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.

## Listening to the secondary service

If the station is providing secondary service, "S" will be displayed. It is possible to change between the primary and secondary service.

### Preparation

- While listening to the primary service.

**1 Press [RADIO MENU] repeatedly to select "SECONDARY" and then press [OK].**

**2 Press [◀, ▶] to select the secondary service and press [OK].**



- The setting will go back to primary service when changes are made (e.g. frequency 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)

1178 1178  
DAB

**PTY display**  
(program type)

POP MUSIC  
DAB

**Ensemble label**  
(the name of the ensemble)

ENSEMBLE  
DAB

**Frequency display**

120.22  
DAB

**Time display**

10:42  
DAB

## Turning automatic clock adjustment function on

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

- 1 Press **[RADIO MENU]** repeatedly to select **"AUTO CLOCK ADJ"**.
- 2 Press **[◀, ▶]** to select **"ON ADJUST"** and then press **[OK]**.

ON ADJUST  
DAB

- Select **"OFF ADJUST"** to turn the automatic clock adjustment function off.

## Changing the Auto scan frequency range

Only the frequencies currently used in Australia as of February 2011 on BAND III are Auto scanned ("AUSTRALIA", factory setting).

Select **"ALL BAND III"** when you want to store stations on other frequencies to memory.

- 1 Press **[RADIO MENU]** repeatedly to select **"SCAN MODE"**.
- 2 Press **[◀, ▶]** to select **"ALL BAND III"** or **"AUSTRALIA"** and then press **[OK]**.
  - The Auto scan begins automatically after the change has been made.



- The DAB preset channels are erased when the "SCAN MODE" is changed.
- If the DAB play timer has been set, the timer switches to off.

### ALL BAND III Frequency

Frequency block	Frequency (MHz)	Frequency block	Frequency (MHz)
5A	174.928	9D	208.064
5B	176.640	10A	209.936
5C	178.352	10B	211.648
5D	180.064	10C	213.360
6A	181.936	10D	215.072
6B	183.648	11A	216.928
6C	185.360	11B	218.640
6D	187.072	11C	220.352
7A	188.928	11D	222.064
7B	190.640	12A	223.936
7C	192.352	12B	225.648
7D	194.064	12C	227.360
8A	195.936	12D	229.072
8B	197.648	13A	230.784
8C	199.360	13B	232.496
8D	201.072	13C	234.208
9A	202.928	13D	235.776
9B	204.640	13E	237.488
9C	206.352	13F	239.200



- The frequencies shaded above are for "AUSTRALIA". (As of February 2011)



# Listening to audio from iPod or iPhone

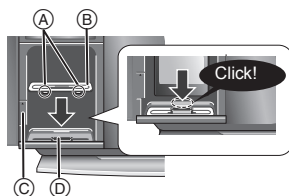
## Inserting/Removing an iPod/iPhone

### ■ Inserting an iPod/iPhone

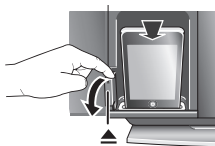
- 1 Open the sliding door. (⇒ 9)
- 2 Insert the suitable dock adapter (not supplied) for the iPod/iPhone.

- Insert the side of the iPod/iPhone dock adapter with the clips facing towards you first and then push the opposite side until it clicks into place.

- (A) Clips
- (B) Dock adapter
- (C) iPod/iPhone docking switch lever
- (D) Connector



- 3 Press [▲] to unlock the iPod/iPhone dock and then pull the docking switch lever to tilt the iPod/iPhone dock.



- 4 Connect the iPod/iPhone (not supplied) firmly.

- Be sure to remove the iPod/iPhone from its case.

- 5 Push the docking switch lever back until it clicks into place.



- 6 Close the sliding door. (⇒ 9)

### ■ Removing an iPod/iPhone

- ① Repeat step 1 and 3 (⇒ above).
- ② To remove, simply pull the iPod/iPhone straight out.
- ③ Repeat step 5 and 6 (⇒ above).



- If the iPod/iPhone dock is not tilted when connecting or disconnecting the iPod/iPhone, it may cause damage to the connector.
- Be sure to use a dock adapter that is compatible with your iPod/iPhone. To purchase a dock adapter, consult your iPod/iPhone dealer.
- Reduce the volume of the main unit to minimum before connecting or disconnecting the iPod/iPhone.

## iPod/iPhone operations

### Preparation

Press [iPod] (HC55: [Ⓢ], iPod]) repeatedly to select "IPOD".

Play	Press [▶/  ].
Pause	Press [▶/  ] or [■]. Press again to resume play.
Skip track	Press [◀◀] or [▶▶].
Search the current track	Press and hold [◀◀] or [▶▶].
Display iPod/iPhone menu/return to previous menu	Press [iPod MENU] in the play mode. (Remote control only)
Select contents from iPod/iPhone menu	Press [▲, ▼] and then [OK]. (Remote control only)

- The operations may vary or not work depending on the iPod/iPhone models.

### ■ Compatible iPod/iPhone (as of February 2011)

- Update your iPod/iPhone with the latest software before using this unit.
- Compatibility depends on the software version of your iPod/iPhone.

Name	Memory size
iPod touch 4th generation	8 GB, 32 GB, 64 GB
iPod nano 6th generation	8 GB, 16 GB
iPod touch 3rd generation	32 GB, 64 GB
iPod nano 5th generation (video camera)	8 GB, 16 GB
iPod touch 2nd generation	8 GB, 16 GB, 32 GB
iPod classic	120 GB, 160 GB (2009)
iPod nano 4th generation (video)	8 GB, 16 GB
iPod classic	160 GB (2007)
iPod touch 1st generation	8 GB, 16 GB, 32 GB
iPod nano 3rd generation (video)	4 GB, 8 GB
iPod classic	80 GB
iPod nano 2nd generation (aluminum)	2 GB, 4 GB, 8 GB
iPod 5th generation (video)	60 GB, 80 GB
iPod 5th generation (video)	30 GB
iPod nano 1st generation	1 GB, 2 GB, 4 GB
iPhone 4	16 GB, 32 GB
iPhone 3GS	8 GB, 16 GB, 32 GB
iPhone 3G	8 GB, 16 GB
iPhone	4 GB, 8 GB, 16 GB

- Depending on the model, it may be necessary to remove the iPod/iPhone and select the album, artist, etc. on the iPod/iPhone.

### Notes on iPhone:

- All phone features can only be controlled by the iPhone's touch screen.
- The unit does not display incoming calls or the phone status.
- The ringtone of incoming call can be heard from the iPhone's speaker. When the unit is in iPod/iPhone mode, the ringtone can also be heard from the unit's speakers.
- Connecting or disconnecting the iPhone from the unit will not cancel a call.
- There is no Apple Inc. specification that will guarantee the iPhone responses above. iPhone responses may vary on new iPhone models or iPhone new software updates.

### ■ Charging the iPod/iPhone

- When iPod/iPhone is being charged in standby mode, "IPOD CHARGING" is shown on the main unit's display.
- Check iPod/iPhone to see if the battery is fully charged. If you are not using iPod/iPhone for an extended period of time after recharging has completed, disconnect it from the main unit as the battery will be depleted naturally. (Once fully recharged, additional recharging will not occur.)

## HC55 Listening to the Internet Radio

This unit can output internet radio if "vTuner for Panasonic" is installed on your iPhone/iPod touch.

- Visit the below website for the following information about "vTuner for Panasonic":  
<http://radio.vtuner.com/panasonic/en/>  
 (Compatible iPhone/iPod touch models and software versions, purchasing, installation and operation details.)

### Preparation

Install "vTuner for Panasonic" to your iPhone/iPod touch.

- 1 Insert the iPhone/iPod touch to this unit.
- 2 Press [Ⓢ, iPod] repeatedly to select "INTERNET RADIO".  
 "vTuner for Panasonic" starts.

# HC55 Using a Bluetooth® compatible device

## About using Bluetooth®

### What is Bluetooth®?

Bluetooth® technology allows you to make a wireless connection with another electronic device.

### Frequency band used

This unit uses the 2.4 GHz frequency band, however other devices may use this frequency as well. To avoid interference with other wireless devices, please follow the cautions listed below.

### Certification of this device

This unit conforms to frequency restrictions and has received certification based on frequency laws, so a wireless permit is not necessary.

However, the following action is punishable by law in some countries:

- Taking apart/modifying the unit.

### Usage restrictions

- Wireless transmission and/or usage with all Bluetooth® equipped devices is not guaranteed.
- Compatible mobile phones capable of wireless transmission include and comply to standards set by the Bluetooth SIG, Inc. However, if the mobile phone is optimized to meet standard specifications, some functions may work. Even so, depending on the specifications and settings of the mobile phone, a connection may not be established, nor are the methods of operation, display, or operation guaranteed.
- This unit supports Bluetooth® security features, however depending on the operating environment and/or settings, this security may not be sufficient. Use caution when transmitting data wirelessly.
- Please be aware that Panasonic accepts no responsibility for data and/or information that may be compromised during a wireless transmission.

### Range of use

Use this device within an unobstructed 10 m range. The range of usage or perimeter may be shortened depending on any obstructions, devices causing interference, other people in the room, or the construction of the building. Please note that the range mentioned above is not guaranteed.

### Effects from other devices

- It is possible that this unit may not operate correctly or you may experience other effects of instability such as “broken up” audio, etc. when other devices are placed within close proximity. Therefore, in order to prevent signal interference, we recommend separating this unit from the following devices during use:

Microwave oven/Wireless LAN/Electronic devices/Audio & Video devices/Office Assistant machines & devices/Digital cordless phones/Fax machines, etc.

- If you live in close proximity to a broadcasting studio and the signal is too strong, the unit may not operate correctly.
- When using a notebook PC with a wireless LAN transmitter, do not use this unit and the wireless LAN at the same time.
- If you are still experiencing noise even outside of the 5 m range of a wireless LAN device, turn the wireless LAN device off.

### Intended usage limitations

This unit is intended for normal, general use. This unit is not developed or manufactured with the intention of use in “high safety” or hazardous occupations. Do not use this unit in these kinds of environments or occupations.

\* The following examples require extreme caution, and can directly result in loss of life, or extreme bodily harm.

e.g.) Nuclear Engineering, and control of a nuclear reaction/automated control of aircraft/air traffic control management/controlling movement of heavy freight systems/control of life support or extension systems/control of weapons systems and/or missile launch systems, etc.

## Bluetooth® pairing

### Preparation

Pair the Bluetooth® device with this unit to create an audio connection.

### 1 Press [⌂, iPod] repeatedly to select “BLUETOOTH”.

When using it for the first time, it enters pairing mode automatically.

### 2 While this unit is in pairing mode, access the Bluetooth® menu of the Bluetooth® device and execute a Bluetooth® search to find this unit (SC-HC55).

- Please refer to the Bluetooth® device user manual for further instruction on how to connect a Bluetooth® device.
- If prompted for the passkey, enter “0000”.

### 3 If pairing is successful, the paired device’s name will be displayed for 2 seconds. The Bluetooth® indicator lights up. The unit is now ready to be used with the Bluetooth® device.



- Make sure the Bluetooth® device supports A2DP (Advance Audio Distribution Profile).
- This unit supports the A2DP reception which is copyright-protected by SCMS-T method.
- A2DP enables you to stream stereo sound from an audio source (mobile phone, PC or laptop) to this unit via Bluetooth®.
- Depending on the specification or setting of mobile phones, connection may not be established, or operation and display may vary.
- You can register up to 6 devices into this unit. Disconnect the current Bluetooth® device and refer to “To register more devices” (⇒ 18).
- If you register more than the maximum device number, the oldest device in connection history will be overwritten.
- If a registered device is re-registered, it will be overwritten.

## Basic play

Pair the Bluetooth® device with this unit to create an audio connection.

### 1 Press [⌂, iPod] repeatedly to select “BLUETOOTH”.

### 2 On the Bluetooth® device:

**Select this unit (SC-HC55) on the Bluetooth® setup screen to make the connection.**

### 3 On the Bluetooth® device:

**Start playback of a music source.**

- If the device is connected, the music will be heard on this unit.
- The Bluetooth® indicator lights when there is a connection.
- Please refer to the Bluetooth® device user manual if required.

### 4 You can also make the following controls with the remote control.


Play	Press [▶/  ] to start play.
Stop	Press [■].
Pause	Press [▶/  ]. Press again to resume play.
Skip track	Press [◀◀] or [▶▶].
Display information	Press [DISPLAY] repeatedly.



- To utilise these functions, the Bluetooth® device must support AVRCP (Audio Video Remote Control Profile).
- This unit cannot transmit data to a Bluetooth® device.
- When playing iPod/iPhone by Bluetooth® with the main unit, intermittent sound may be experienced if you leave the iPod/iPhone Bluetooth® menu screen active or when making Bluetooth® registration and connection. If this occurs, please exit the iPod/iPhone Bluetooth® menu screen.
- When playing music by iPod/iPhone via Bluetooth® connection and the iPod/iPhone is connected into this unit iPod/iPhone dock, the audio will not be re-produced while “BLUETOOTH” is selected. Select “IPOD” to continue enjoying the music.

## Input level

You can select the sound input level of the Bluetooth® device.

- 1 Press [, iPod] repeatedly to select "BLUETOOTH".
- 2 Press [SOUND] repeatedly to select "INPUT LEVEL".
- 3 Press [◀, ▶] to select "0", "+1" or "+2".
  - Select "0" if the sound is distorted.




## Display function

Press [DISPLAY] repeatedly to view the information of the current connected device.

BLUETOOTH → Connected device name  
↑ Connected profiles ←

## Hands-Free Profile (HFP)



This unit works as a Bluetooth® hands-free for your mobile phones.

To answer a call ("IN CALL" blinks)	Press [  ]. "CALLING" starts blinking on the display (Talk into the unit's microphone). Press [  ] again to transfer the call to the mobile phones ("TRANSFER" blinks. You may now converse using the mobile phone).
To cancel a call	Press [  ].
To adjust the sound volume	Press [+ , VOL , -] (Adjustable from "TEL VOL 1" to "TEL VOL 10").
To mute the microphone	Press [MUTE]. Press again to cancel. (During "MIC MUTE", the caller is not able to hear your voice).



- This unit does not work with Headset Profile (HSP).
- When the mobile phone is too close to the microphone of this unit, noise may occur. Always keep the mobile phone away from the microphone of this unit when making a call.
- The audio from a disc will be paused while calling in hands-free mode.

## Disconnecting a Bluetooth® device

- 1 Press [, iPod] repeatedly to select "BLUETOOTH".
- 2 Press [ MENU] to display "DISCONNECT?" and then press [OK].

A confirmation message is displayed.
- 3 Press [◀, ▶] to select "YES" and then press [OK].



- The connection can also be stopped when you disable Bluetooth® transmission on the connected Bluetooth® device.


## Advanced functions

### Preparation


Press [, iPod] repeatedly to select "BLUETOOTH".

- These functions are unavailable if a device is connected. Disconnect the Bluetooth® devices to display these functions.

### ■ To register more devices

- 1 Press [ MENU] repeatedly to select "NEW DEV." and then press [OK].
  - The unit enters pairing mode and "PAIRING" starts blinking on the display.
- 2 While this unit is in pairing mode, access the Bluetooth® menu of the Bluetooth® device and execute a Bluetooth® search to find this unit (SC-HC55).
  - If prompted for the passkey, enter "0000".


### ■ To select communication quality

- 1 Press [ MENU] repeatedly to select "LINK MODE".
- 2 Press [◀, ▶] to select the following modes and then press [OK].

MODE 1: Connection with emphasis on communication stability

MODE 2: Connection with high bit rate for good audio quality (Communication might easily be disconnected in this mode, select "MODE 1" if this occurs).


### ■ To select Auto Link mode

- 1 Press [ MENU] repeatedly to select "AUTO LINK".
- 2 Press [◀, ▶] to select the following modes and then press [OK].

ON: This unit will automatically select "BLUETOOTH" when a Bluetooth® device is connected.

OFF



- When "LINKING" is displayed, pressing [ MENU] is invalid.
- Auto Link works only if your device supports A2DP.
- The communication quality settings also depend on the settings on the connected device. If the communication quality of the connected device is set for stable communication, the quality of the audio will remain low even if this unit is set to "MODE 2".

# Listening to audio from a USB device

## Compatible devices

Devices which are defined as USB mass storage class:  
USB devices that support bulk only transfer  
USB devices that support USB 2.0 full speed

Notes on USB

- Supported format: Files with extension “.mp3” or “.MP3”
- CBI (Control/Bulk/Interrupt) is not supported.
- FAT12, FAT16 and FAT32 file systems are supported.
- Depending on the sector size, some files may not work.
- This unit can access up to 254 albums (excluding Root folder) and 2500 tracks.
- The maximum number of tracks in a folder is 999 tracks.
- Only one memory card will be selected when connecting a multiport USB card reader, typically the first memory card inserted.
- Disconnect the USB card reader from the unit when you remove the memory card. Failure to do so may cause malfunction to the device.
- When you connect the digital audio player to the USB port, it charges all the time when the unit is on.

## USB operations

The USB connectivity enables you to connect and play MP3 tracks from a USB device.

**Preparation:**

- Before connecting any USB device to this unit, be sure to back up the data.
- It is not recommended to use a USB extension cable. The device connected via the cable will not be recognized by this unit.

- 1 Plug the USB device into the unit. (⇒ 5)
- 2 Press [EXT-IN, RADIO] repeatedly to select “USB”.
- 3 Press [▶/||] to start play.

Stop	Press [■]. <ul style="list-style-type: none"><li>• The position is memorized while “RESUME” is displayed.</li></ul> Press [▶/  ] to resume play. Press [■] again to clear the position.
Pause	Press [▶/  ]. <ul style="list-style-type: none"><li>• Press [▶/  ] again to restart play.</li></ul>
Skip	Press [◀◀] or [▶▶]. (Track) Press [▲, ▼]. (Album)
Direct access play (Play starts with the track you select.)	① Press [▲, ▼] to select the album. ② Press [▶▶] once and then the numeric buttons to select the track.

- Before removing the USB device, select a source other than “USB”.



- Removing the USB device while it is selected can damage the data stored in the device.

For other operating functions, they are similar as those described in “Disc operations”.

# Others

## Changing the main unit and remote control mode

Other Panasonic audio/video equipment may start functioning when you operate the unit using the supplied remote control. You can operate this unit in another mode by setting the remote control operating mode to “REMOTE 2”.

**The main unit and remote control must be set to the same mode.**

- 1 Press [EXT-IN, RADIO] to select “AUX”.
- 2 Press and hold [RADIO/EXT-IN] on the main unit and [2] on the remote control until the main 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 by replacing [2] with [1].

## Memory reset (Initialization)

When the following situations occur, reset the memory:

- There is no response when buttons are pressed.
- You want to clear and reset the memory contents.

- 1 Disconnect the AC mains lead. (Wait for at least 3 minutes before proceeding to step 2.)
- 2 While pressing and holding down [⏻/I] on the main unit, reconnect the AC mains lead.  
“-----” appears on the display.
- 3 Release [⏻/I].

All the settings are returned to the factory preset. You will need to reset the memory items.

# Troubleshooting

Before requesting service, make the following checks. If you are in doubt about some of the check points, or if the solutions indicated in the following guide do not solve the problem, consult your dealer for instructions.

## Common problems

### **Incorrect display or play will not start.**

- You have not inserted the disc properly. Insert it correctly.
- The disc is scratched or dirty (Tracks skipped).
- There is moisture on the lens. Wait for about an hour and then try again.

### **MP3 cannot be read.**

- You may not be able to play MP3 if you have copied a multi-session disc that has no data between sessions.
- When creating a multi-session disc, it is necessary to close the session.
- The amount of data on the disc is too small. Set the amount of data to above 5 MB.

### **Noise is heard or no sound.**

- While playing MP3, noise may occur if the recording is poor.
- Keep this unit away from mobile phones if the interference is apparent.
- Turn the volume up.
- Switch the unit off, check and correct the connection and then switch the unit on. Causes include straining of the speakers through excessive volume or power and using the unit in a hot environment.

### **Humming heard during play.**

- An AC mains lead or fluorescent light is near the cords. Keep other appliances and cords away from this unit's cables.

### **A beat sound or noise is heard while receiving radio broadcast.**

- Switch the television or other audio player off or separate it from the unit.
- Switch the portable audio player off if connected to the EXT-IN AUX port.

### **HC35 A low hum or noise is heard during AM broadcast.**

- Keep the antenna away from other cables and cords.
- Keep the AM antenna away from the unit.

### **The picture on the television near the unit disappears or stripes appear on the screen.**

- The location and orientation of the antenna are incorrect.
- The television antenna wire is too close to the unit. Separate the antenna wire of the television from the unit.

### **No response when remote control buttons are pressed.**

- Check that the battery is inserted correctly (⇒ 3).

## **HC55** Open/close sensor

### **The sliding door does not open (or malfunctions).**

- Is the unit turned on?
- Is the open/close sensor turned off? (⇒ 9)
- During CD playback or pause, the CD operation side of the sliding door will not open.
- The open/close sensor may not react to dark objects.
- Depending on the lighting, the open/close sensor may malfunction.  
In this case, try moving the unit to a different place. (Do not place this unit under strong lighting, e.g., direct sunlight or fluorescent lights, etc.)
- When the open/close sensor is on, the sliding door may open/close while operating the buttons on the top of the unit.  
In this case, use the remote control.

### **The open/close button lights are flashing.**

- If there is an object close to both open/close sensors, both open/close button lights will flash and the open/close sensor will not function.  
In this case try the below:
  - Changing the sensor setting to "MODE 1". (⇒ 9)
  - Move the unit away from the object, or vice versa. (It will take a few seconds for the unit to check if the clearance is sufficient.)

### **The open/close sensor sound effect cannot be heard when the sliding door opens/closes.**

- This is normal while listening to the radio, during playback, etc. or when linked to a Bluetooth® device.

## iPod/iPhone operations

### **iPod/iPhone does not turn on.**

#### **Cannot operate with [iPod MENU] button.**

- Verify that the iPod/iPhone battery is not depleted before connecting it to the unit.
- Before inserting the iPod/iPhone into the dock, turn both the unit and the iPod/iPhone off. Turn the power on and select the appropriate source.

### **No sound is heard from the speakers.**

- The iPod/iPhone is not inserted correctly into the dock. Turn the iPod/iPhone off and remove it from the dock connector. Reinsert it and turn it on again.
- Make sure that the iPod/iPhone is actually playing something.
- Adjust the volume.

### **Distorted sound or the sound level is too low.**

- Make sure the equalizer function of the iPod/iPhone is turned off.

### **iPod/iPhone cannot be controlled by the remote control or main unit.**

- Make sure the iPod/iPhone is inserted properly into the dock.
- Check the dock connection and make sure that iPod/iPhone is selected as the source of music (⇒ 16).

### **iPod/iPhone does not charge.**

- Check all connections (⇒ 4, 16).

## HC55 Bluetooth® operations

### **The name of the connected device is shown as “\*”.**

- Character that cannot be displayed will be replaced by “\*”.
- An unknown device name is detected and displayed as “\*\*\*\*\*”.

### **Noise is heard or broken sound.**

- The Bluetooth® communication distance has exceeded 10 m. Bring the device closer to the unit.
- There are obstructions between the device and the unit. Remove or avoid the obstacles.
- Select “MODE 1” to improve connection quality (⇒ 18).
- Interference from mobile phones.

## USB operations

### **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 (⇒ 19).
- The USB host function of this product may not work with some USB devices.
- USB devices with storage capacity of more than 8 GB may not work in some instances.

### **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.

## Displayed messages

The following messages or service numbers appear on the unit's display when something unusual is detected during startup and use.

“--:--”

- You plugged the AC mains lead in for the first time or there was a power failure recently. Set the time (⇒ 12).

“ADJUST CLOCK”

- Clock is not set. Adjust the clock accordingly.

“ADJUST TIMER”

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

“PGM FULL”

- The number of programmed tracks is limited to 24. No further tracks can be programmed.

“NO PLAY”

- A CD-ROM disc that is not in CD-DA or MP3 format is inserted. It cannot be played.
- Check the content. Only MP3 format files can be played.
- If there are more than 255 albums or folders (audio and non-audio), some of the MP3 files in these albums may not be read and played. Transfer these music albums to another USB. Alternatively, reformat the USB device and save these music albums prior to saving the other non-audio folders.

“ERROR”

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

“F61” or “F76”

- There is a power supply problem. Consult the dealer.
- Disconnect the USB device. Turn the unit off and on again.

“AUTO OFF”

- The unit has been left unused for about 30 minutes and will shut down in a minute. Press any button to cancel it.

“ILLEGAL OPEN”

- Sliding door is not in correct position. Turn the unit off and on again.

“NODEVICE”

- The iPod/iPhone device is not inserted correctly. Read the instructions and try again (⇒ 16).
- The USB device is not inserted. Check the connection.

“REMOTE 1”

- The main unit is in “REMOTE 1” mode. Switch the remote control to “REMOTE 1” mode (⇒ 19).

“REMOTE 2”

- The main unit is in “REMOTE 2” mode. Switch the remote control to “REMOTE 2” mode (⇒ 19).

“DIMMER”

- Appears 10 seconds after the volume is turned to “0”.

**HC55** “F70”

- There is a Bluetooth® module problem. Disconnect the AC mains lead and consult your dealer.

“NO DISC”

- Insert the disc to be played (⇒ 10).

“NOT SUPPORTED”

- You have inserted an iPod/iPhone that cannot be played (⇒ 16).

**HC55** “START ERROR”

- Check the iPhone/iPod touch.  
Visit the below website for more information:  
<http://radio.vtuner.com/panasonic/en/>

“UNLOCKED”

- The iPod/iPhone docking switch lever is not locked in position. Make sure that the iPod/iPhone docking switch lever is properly pushed back into place (⇒ 16).

**HC55** “CANNOT SET”

- Select an audio source other than “BLUETOOTH” or “INTERNET RADIO”.

## HC55 DAB operations

**DAB reception is poor.**

- Keep the antenna away from computers, televisions, other cables and cords.
- Use an outdoor antenna (⇒ 5).

“DATA”

- Data broadcast being received over the DAB broadcast signal cannot be used on this unit.

“SCRAMBLED”

- The broadcast station being received cannot be accessed.

“NO SERVICE”

- The station is currently not broadcasting.

“NO SIGNAL”

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

“SCAN FAILED”

- Stations are not receivable. Check your antenna and try Auto scanning (⇒ 5, 14, 15).



# Specifications

## AMPLIFIER SECTION

<b>RMS Output Power Stereo mode</b>	
Front Ch (both ch driven)	20 W per channel (6 Ω), 1 kHz, 10 % THD
<b>Total RMS Stereo mode power</b>	40 W

## TUNER SECTION

<b>Preset Memory</b>	<b>HC55</b> FM 30 stations
	<b>HC35</b> FM 30 stations AM 15 stations
<b>HC55</b> <b>Frequency Modulation (FM)</b> <b>Frequency range</b>	87.50 MHz to 108.00 MHz (50 kHz step)
<b>Antenna terminals</b>	75 Ω (unbalanced)
<b>HC35</b> <b>Frequency Modulation (FM)</b> <b>Frequency range</b>	87.50 MHz to 108.00 MHz (50 kHz step)
<b>Antenna terminals</b>	75 Ω (unbalanced)
<b>Amplitude Modulation (AM)</b> <b>Frequency range</b>	522 kHz to 1629 kHz (9 kHz step) 520 kHz to 1630 kHz (10 kHz step)

## HC55 DAB SECTION

<b>DAB memories</b>	20 channels
<b>Frequency Band (Wavelength)</b> <b>Australia</b>	9A to 9C (202.928 MHz to 206.352 MHz)
<b>Band III (Europe/Australia)</b>	5A to 13F (174.928 MHz to 239.200 MHz)
<b>Sensitivity *BER 4x10<sup>-4</sup></b> <b>Min Requirement</b>	-98 dBm
<b>DAB External Antenna</b> <b>Terminal</b>	F - Connector (75 Ω)

## DISC SECTION

<b>Disc played [8 cm or 12 cm]</b>	CD, CD-R/RW (CD-DA, MP3*)
<b>Pick up</b> <b>Wavelength</b>	790 nm
<b>Laser power</b>	CLASS 1, CLASS 1M
<b>Audio Output (Disc)</b> <b>Number of channels</b>	FL, FR, 2 ch
※ MPEG-1 Layer 3, MPEG-2 Layer 3	

## SPEAKER SECTION

<b>HC55</b> <b>Type</b>	2 way, 2 speaker system (Passive Radiator)
<b>Speaker unit(s)</b> <b>Woofer</b>	6.5 cm Cone type×1 per channel
<b>Tweeter</b>	1.5 cm Piezo type×1 per channel
<b>Passive Radiator</b> <b>Impedance</b>	8 cm×2 per channel 6 Ω
<b>HC35</b> <b>Type</b>	1 way, 1 speaker system (Passive Radiator)
<b>Speaker unit(s)</b> <b>Full range</b>	6.5 cm Cone type×1 per channel
<b>Passive Radiator</b> <b>Impedance</b>	8 cm×2 per channel 6 Ω

## HC55 BLUETOOTH SECTION

<b>Bluetooth® system specification</b>	V2.1 + EDR
<b>Wireless equipment</b> <b>classification</b>	Class 2 (2.5 mW)
<b>Supported profiles</b>	A2DP, AVRCP, HFP
<b>Frequency band</b>	2402 MHz to 2480 MHz (Adaptive Frequency Hopping)
<b>Driving distance</b>	10 m Line of Sight (iPhone 4, at height 1 m, in "MODE 1")

## TERMINAL SECTION

<b>Phone jack</b> <b>Terminal</b>	Stereo, Ø3.5 mm jack
<b>AUX (Rear)</b> <b>Terminal</b>	Stereo, Ø3.5 mm jack
<b>USB Port</b> <b>USB Standard</b>	USB 2.0 full speed
<b>Media file format support</b>	MP3 (*.mp3)
<b>USB device file system</b>	FAT12, FAT16, FAT32
<b>USB port power</b>	Max 500 mA

## GENERAL

<b>Power consumption</b>	28 W
<b>Power consumption in standby mode</b>	Approx. 0.2 W
<b>Power supply</b>	AC 220 V to 240 V, 50 Hz
<b>Dimensions (W×H×D)</b>	With stand 480 mm×194 mm×84 mm Without stand 480 mm×194 mm×69 mm
<b>Mass</b>	Approx. 2.4 kg
<b>Operating temperature range</b>	0 °C to +40 °C
<b>Operating humidity range</b>	35 % to 80 % RH (no condensation)



- Specifications are subject to change without notice.  
Mass and dimensions are approximate.
- Total harmonic distortion is measured by a digital spectrum analyzer.

For SC-HC55DB only

