

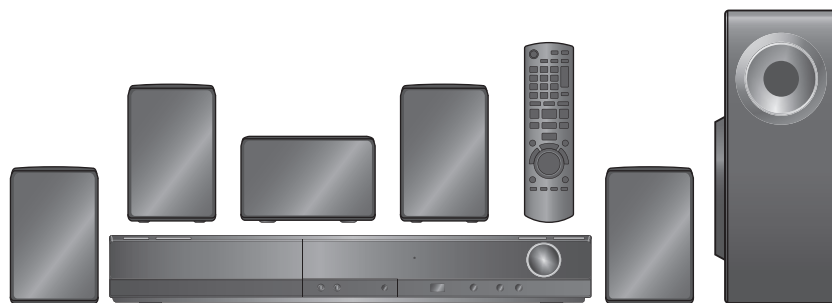
Panasonic®

Operating Instructions

DVD Home Theater Sound System

Model No. **SC-PT170**
SC-PT175

This illustration shows SC-PT170.



The illustrations shown may differ from your unit.

Region number

The player plays DVD-Video marked with labels containing the region number or "ALL".

Region	Number
The Middle East, Saudi Arabia and Kuwait	2
Southeast Asia, Hong Kong and Thailand	3
Australia and N.Z.	4

Example: **The Middle East, Saudi Arabia and Kuwait**



GC GS GA GJ GN

RQTX0242-B

Confidential until
2009/02/05

Dear customer

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully.

Before connecting, operating or adjusting this product, please read the instructions completely.

Please keep this manual for future reference.

- These operating instructions are applicable to models SC-PT170 and SC-PT175 for a variety of regions.
- Unless otherwise indicated, illustrations in these operating instructions are of SC-PT170 for the Southeast Asia, Hong Kong and Thailand.
- Operations in these instructions are described mainly with the remote control, but you can perform the operations on the main unit if the controls are the same.

CAUTION!

THIS PRODUCT 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 OPEN COVERS AND DO NOT REPAIR YOURSELF.
REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE,
• DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.
• USE ONLY THE RECOMMENDED ACCESSORIES.
• DO NOT REMOVE THE COVER (OR BACK); THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION!

- DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.
- DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.
- DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.
- DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.

This product may receive radio interference caused by mobile telephones during use. If such interference is apparent, please increase separation between the product and the mobile telephone.

The socket outlet shall be installed near the equipment and easily accessible.

The mains plug of the power supply cord shall remain readily operable.

To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from AC receptacle.

Indicates features applicable to:

PT170 : SC-PT570	PT175 : SC-PT175
------------------	------------------

System	SC-PT170	SC-PT175
Main unit	SA-PT170	SA-PT170
Front speakers	SB-HF170	SB-HF175
Center speaker	SB-HC170	SB-HC175
Surround speakers	SB-HS170	SB-HS175
Subwoofer	SB-HW170	SB-HW170

Australia and N.Z.

THIS UNIT IS INTENDED FOR USE IN MODERATE CLIMATES.

Others

THIS UNIT IS INTENDED FOR USE IN TROPICAL CLIMATES.

Except **Australia and N.Z.**

CAUTION:

The AC voltage is different according to the area.
Be sure to set the proper voltage in your area before use.
(For details, please refer to page 9)



(Back of product)

CAUTION	- LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.	FDA 21 CFR / Class II
CAUTION	- CLASS 1M VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1 +A2/ Class 1M.	
WARNING	- KLASS 1M SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN DIREKT GENOM OPTISKT INSTRUMENT.	
FORSIGTIG	- SYNLIG OG USYNLIG LASERSTRÅLING KLASS 1M. NÄR LÅGET ER ÅBENT. UNDGÅ AT SE LIGE PÅ MED OPTISKE INSTRUMENTER.	
VARO!	- AVATTAESSA OLET ALTIINNA LUKKAN 1M NÄKYVÄÄ JA NÄKYMÄTÖNTÄ, LASERSTRÄLVIÄ. ÄLÄ KATSO OPTISELLA LAITTEELLA SUORAAVÄN SÄTEESEEN.	
VORSICHT	- SICHTBARE UND UNSICHTBARE LASERSTRÄHLUNG KLASSE 1M. WENN ABDECKUNG GEÖFFNET, NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN.	
ATTENTION	- RAYONNEMENT LASER VISIBLE ET INVISIBLE. CLASSE 1M EN CAS D'OUVERTURE. NE PAS REGARDER DIRECTEMENT À L'AVEC D'INSTRUMENTS D'OPTIQUE.	
注意	- ここを覗くと可視及び不可視レーザー光が出ます。 ビームを見たり、触れたりしないでください。	
注意	- 打开时有可见及不可见激光辐射。避免光束照射。	GB7241, 1-2001/GB 类 RQLXS0075

(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.

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Getting Started

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Accessories

Getting Started

Please check and identify the supplied accessories.



☐ **1 Remote control**

Australia and N.Z. (N2QAYB000366)
Others (N2QAYB000364)



☐ **2 Remote control batteries**



☐ **1 FM indoor antenna**



☐ **1 Video cable**



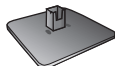
☐ **PT175 2 Speaker stands (with cable)**



☐ **PT170 4 Speaker cables**
PT175 3 Speaker cables



☐ **PT175 2 Bases**



☐ **PT175 8 Screws**



☐ **1 Sheet of speaker cable stickers**



☐ **AC mains lead**

Australia and N.Z.



Saudi Arabia and Kuwait



Others



Caution for AC Mains Lead

(For Saudi Arabia and Kuwait)

("GS" area code model only)

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.

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.

If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral, Brown: Live.

As these colours may not correspond with the coloured markings

identifying the terminals in your plug, proceed as follows:

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL  OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

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.

Figure A

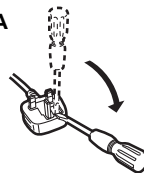
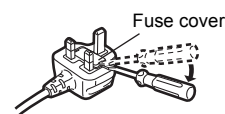


Figure B



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

Figure A

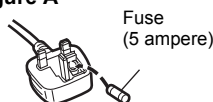
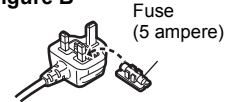


Figure B



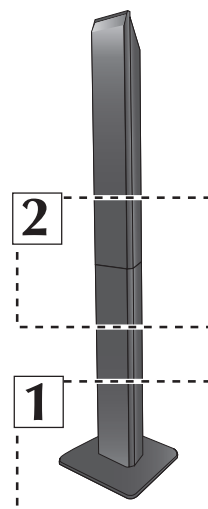
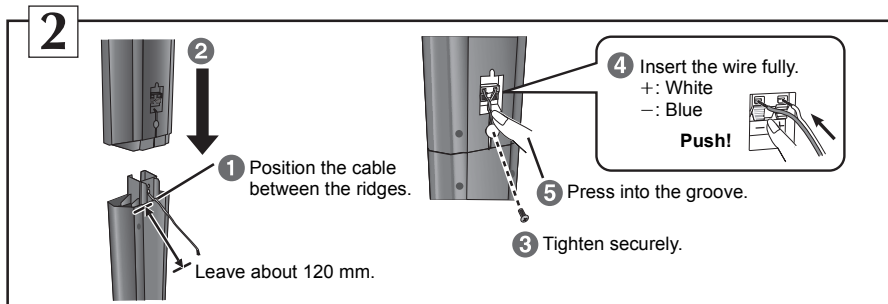
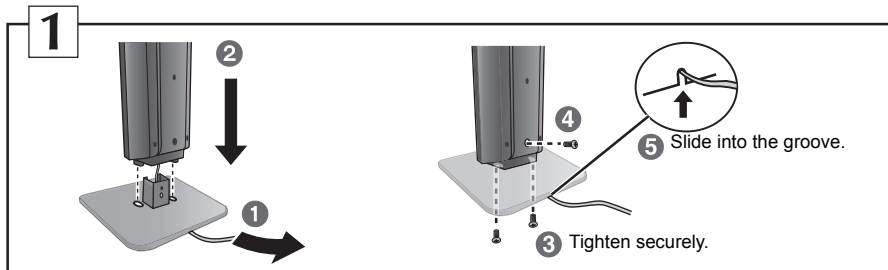
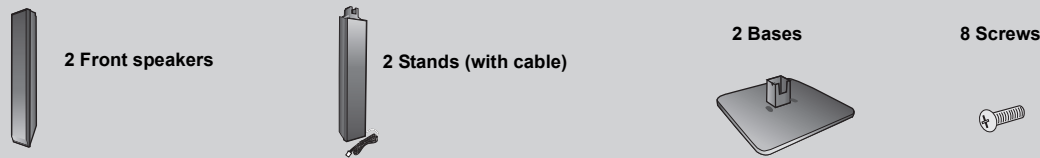
step 1 | Assembling the front speakers PT175

Preparation

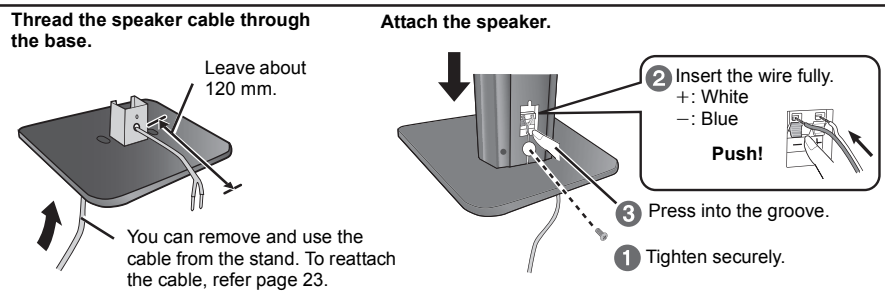
- To prevent damage or scratches, lay down a soft cloth and perform assembly on it.
- For assembly, use a Phillips-head screwdriver (not included).

Make sure you have all the indicated components before starting assembly, setup, and connection.

- Keep the screws out of reach of children to prevent swallowing.
- For optional wall mount, refer to page 23.



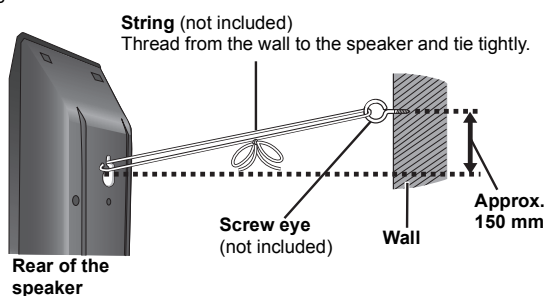
Speaker assembly option



Preventing the speakers from falling

- You will need to obtain the appropriate screw eyes to match the walls or pillars to which they are going to be fastened.
- Consult a qualified housing contractor concerning the appropriate procedure when attaching to a concrete wall or a surface that may not have strong enough support. Improper attachment may result in damage to the wall or speakers.

e.g.



Caution

Do not stand on the base. Be cautious when children are near.

e.g.



step 2 | Positioning

How you set up your speakers can affect the bass and the sound field.

Note the following points:

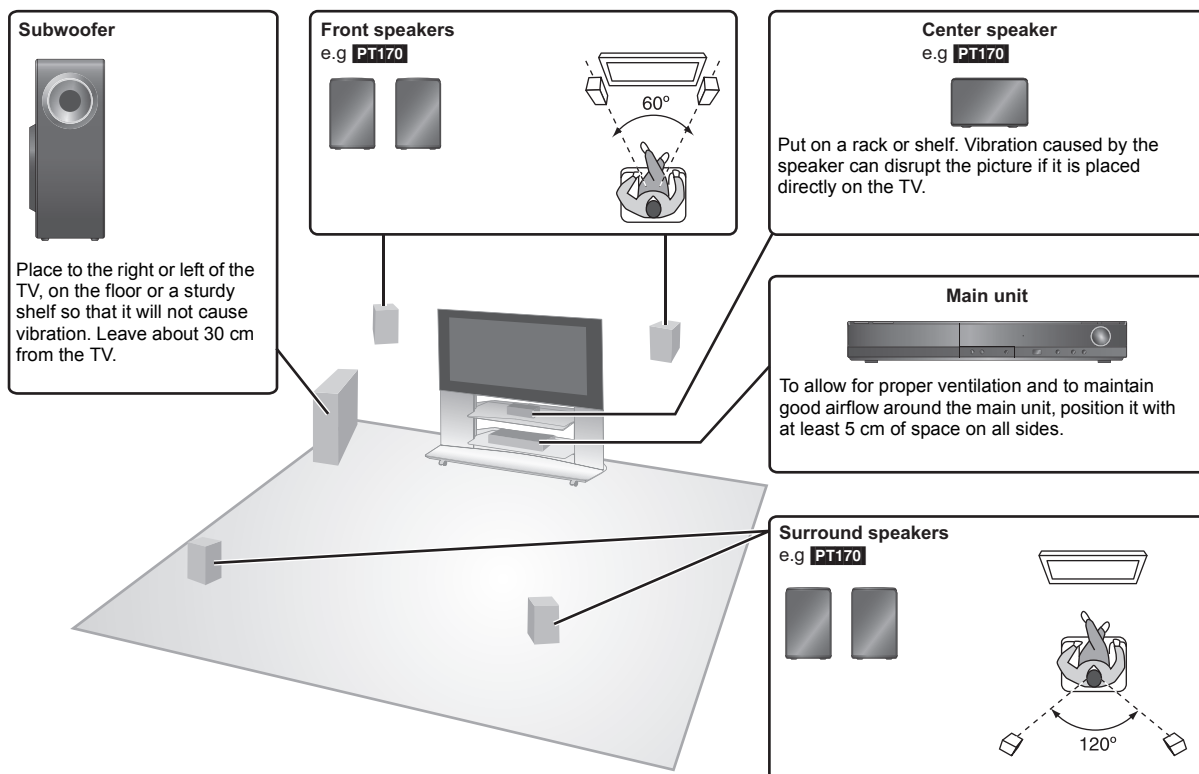
- Place speakers on flat secure bases.
- Placing speakers too close to floors, walls, and corners can result in excessive bass. Cover walls and windows with thick curtains.
- For optional wall mount, refer to page 23.

Note

Keep your speakers at least 10 mm away from the system for proper ventilation.

Setup example

Place the front, center, and surround speakers at approximately the same distance from the seating position. The angles in the diagram are approximate.



Notes on speaker use

• Use only supplied speakers

Using other speakers can damage the unit, and sound quality will be negatively affected.

- You can damage your speakers and shorten their useful life if you play sound at high levels over extended periods.
- Reduce the volume in the following cases to avoid damage:
 - When playing distorted sound.
 - When the speakers are reverberating due to a record player, microphone, noise from FM broadcasts, or continuous signals from an oscillator, test disc, or electronic instrument.
 - When adjusting the sound quality.
 - When turning the unit on or off.

If irregular colouring occurs on your TV

The center speaker is designed to be used close to a TV, but the picture may be affected with some TVs and setup combinations.

If this occurs, turn the TV off for about 30 minutes.

The demagnetising function of the TV should correct the problem. If it persists, move the speakers further away from the TV.

Caution

- The main unit and supplied speakers are to be used only as indicated in this setup. Failure to do so may lead to damage to the amplifier and/or the speakers, and may result in the risk of fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.
- Do not attempt to attach these speakers to walls using methods other than those described in this manual.

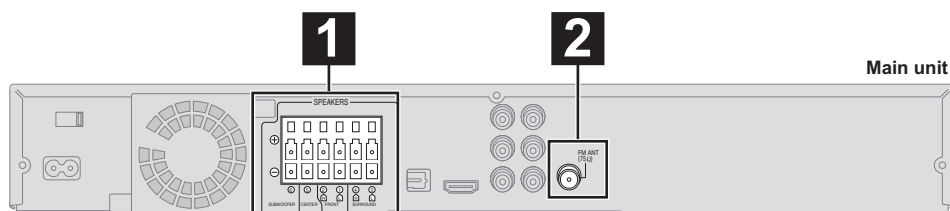
Caution

Do not touch the front netted area of the speakers. Hold by the sides.
e.g. PT170 Center speaker



step 3 | Connections

Turn off all equipment before connection and read the appropriate operating instructions.
Do not connect the AC mains lead until all other connections are complete.



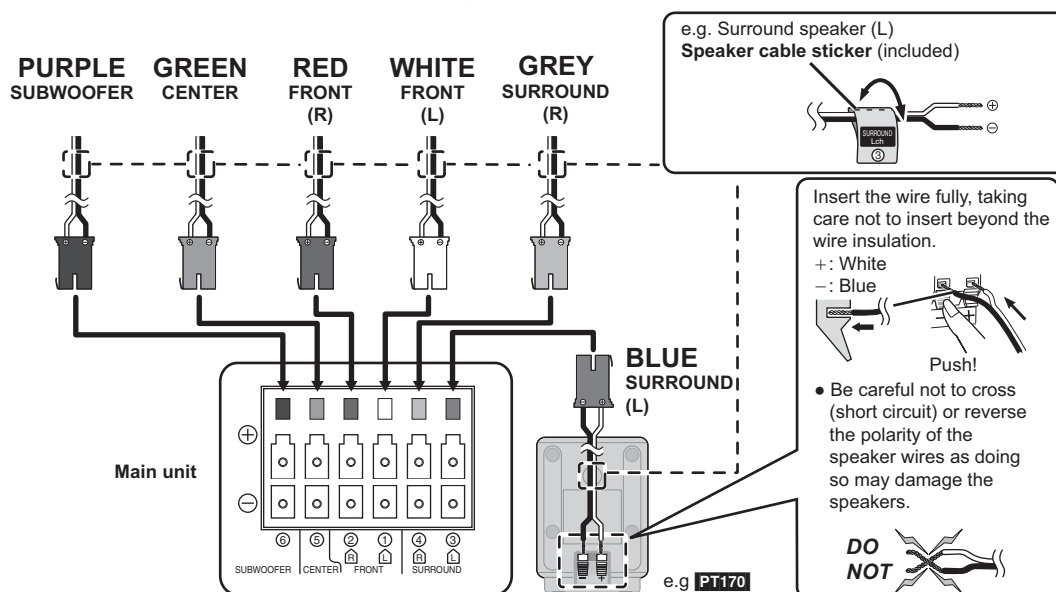
1 Speaker connections

Setup example

Pay attention to the type of speaker and the connector colour when you place the speakers.

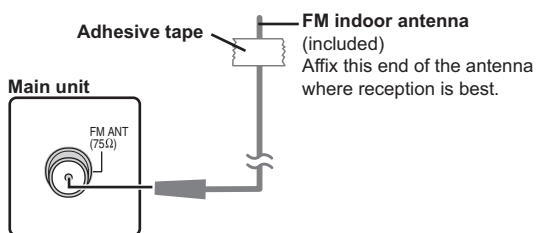
Connect to the terminals of the same colour.

Use of the speaker cable stickers is convenient when making cable connections.



2 Radio antenna connections

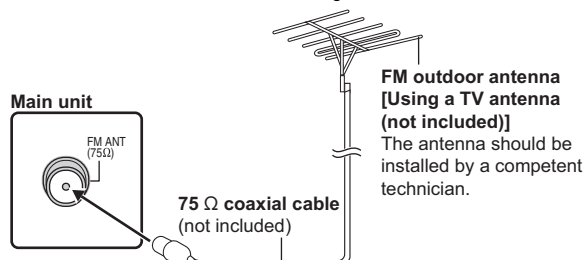
Using an indoor antenna

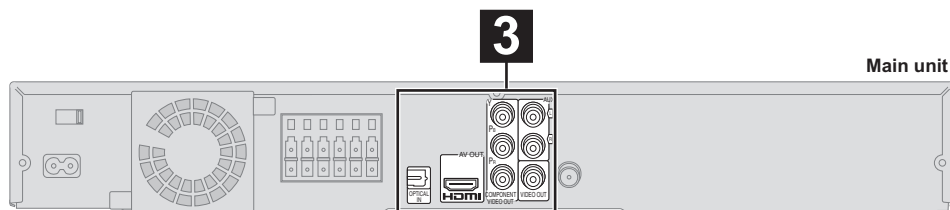


Using an outdoor antenna (optional)

Use outdoor antenna if FM radio reception is poor.

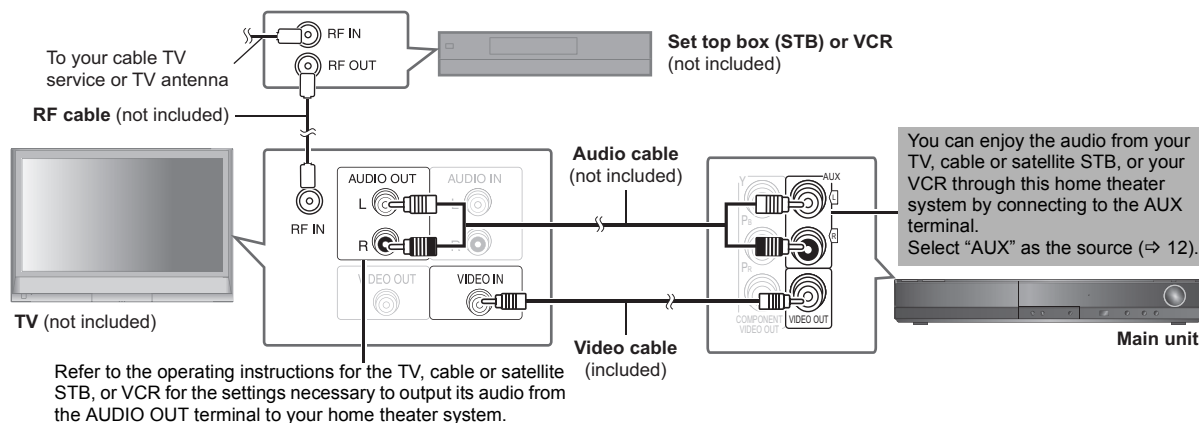
- Disconnect the antenna when the unit is not in use.
- Do not use the outdoor antenna during an electrical storm.





3 Audio and video connections

Basic setup example



Other video connections

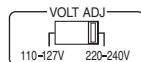
	HDMI cable Note - Non-HDMI-compliant cables cannot be utilized. - It is recommended that you use Panasonic's HDMI cable. Recommended part number: RP-CDHG15 (1.5 m), RP-CDHG30 (3.0 m), RP-CDHG50 (5.0 m), etc.	HDMI	This connection provides the best picture quality. - Set "VIDEO PRIORITY" to "ON" (⇒ 25, HDMI menu). - Set "VIDEO FORMAT" in Menu 5 (HDMI) (⇒ 19). VIERA Link "HDAVI Control" If your Panasonic TV is VIERA Link compatible, you can operate your TV synchronizing with home theater operations or vice versa (⇒ 20, Using the VIERA Link "HDAVI Control"™). - Make the audio connection (⇒ above) when you use VIERA Link "HDAVI Control" function.
COMPONENT VIDEO IN Panasonic TVs with 576/50i-50p, 480/60i-60p input terminals are progressive compatible. Consult the manufacturer if you have another brand of TV.	Video cables	COMPONENT VIDEO • Connect to terminals of the same colour.	This connection provides a much purer picture than the VIDEO OUT terminal. To enjoy progressive video - Connect to a progressive output compatible TV. - Set "VIDEO OUT (I/P)" in VIDEO menu to "PROGRESSIVE" and then follow the instructions on the menu screen (⇒ 25).

Other audio connection

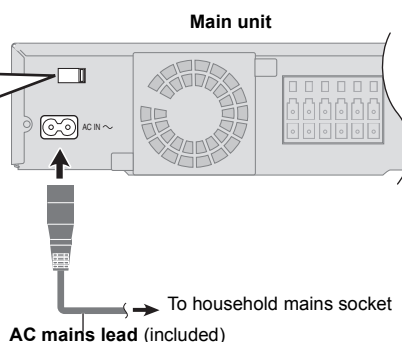
TV or external equipment terminal	Cable required (not included)	Main unit terminal	Features
OPTICAL OUT	Do not bend sharply when connecting. Optical digital audio cable	OPTICAL IN OPTICAL IN	This is the preferred connection for best sound and true surround sound. This unit can decode the surround signals received from your TV, cable or satellite STB. Refer to the operating instructions for the TV, cable or satellite STB for the settings necessary to output its audio from the digital audio output to your home theater system. Only Dolby Digital and PCM can be played with this connection. After making this connection, make settings to suit the type of audio from your digital equipment (⇒ 12).

Note

- Do not make the video connections through the VCR. Due to copy guard protection, the picture may not be displayed properly.
- Only one video connection is required. Choose one of the video connections above depending on your TV.
- If you have various sound sources (such as Blu-ray player, DVD recorder, VCR, etc.), connect them to the available inputs on the TV and the TV output should then be connected to the AUX or OPTICAL IN terminal of the main unit.

step 4 | AC mains lead connectionExcept **Australia and N.Z.****Before connecting the AC mains lead
Set the voltage.**

Use a flat-head screwdriver to move the voltage selector to the appropriate position for the area in which this system is used.

Saudi Arabia and Kuwait**BE SURE TO READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 4 BEFORE CONNECTION.****Conserving power**

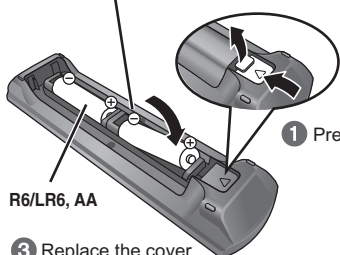
The main unit consumes a small amount of power, even when it is in standby mode (approx. 0.2 W). To save power when the unit is not to be used for a long time, unplug it from the household AC mains socket. You will need to reset some memory items after plugging in the main unit.

Note

The included AC mains lead is for use with the main unit only. Do not use it with other equipment. Also, do not use cords for other equipment with the main unit.

step 5 | Preparing the remote control**Batteries**

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



- 1 Press in and lift up.

- 3 Replace the cover.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

- Use alkaline or manganese batteries.
- Do not heat or expose to flame.
- Do not leave the battery(ies) in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.

Do not:

- mix old and new batteries.
- use different types of batteries at the same time.
- take apart or short circuit.
- attempt to recharge alkaline or manganese batteries.
- use batteries if the covering has been peeled off.

Mishandling of batteries can cause electrolyte leakage which can severely damage the remote control.

Remove the batteries if the remote control is not going to be used for a long period of time. Store in a cool, dark place.

Use

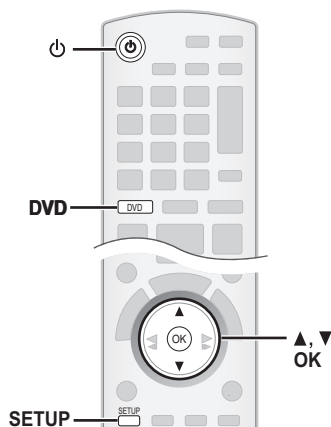
Aim at the remote control signal sensor (⇒ 35), avoiding obstacles, at a maximum range of 7 m directly in front of the unit.

step 6 | EASY SETUP

The Easy setup screen assists you to make necessary settings.

**Preparation**

- Turn on your TV and select the appropriate video input mode (e.g. VIDEO 1, AV 1, HDMI, etc.) to suit the connections to this unit.
- To change your TV's video input mode, refer to its operating instructions.
 - This remote control can perform some basic TV operations (⇒ 34).

**Easy setup settings**

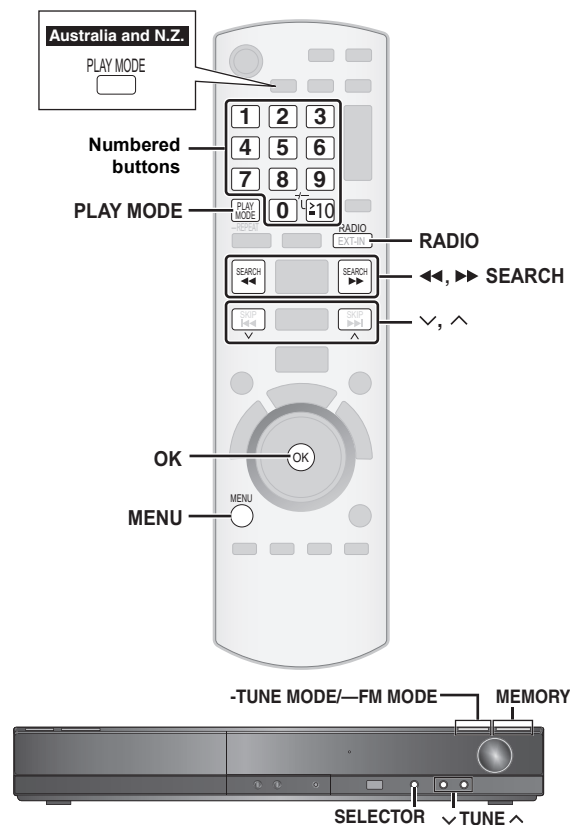
- **Language**
Select the language used on menu screen.
- **TV aspect**
Select the aspect to suit your TV.
- **Speaker check**
Listen to speaker output to confirm speaker connections.
- **Speaker output**
Make surround sound setting for speaker output.
- **TV audio**
Select the audio input connection from your TV.
For AUX connection (⇒ 8): Select "AUX".
For OPTICAL IN connection (⇒ 8): Select "DIGITAL IN".
This will be the TV audio setting for VIERA Link "HDAVI Control". (⇒ 20)

Note

- If this unit is connected to a "HDAVI Control 3 or later" compatible TV via HDMI cable, the menu language and TV aspect information will be retrieved via VIERA Link.
- If this unit is connected to a "HDAVI Control 2" compatible TV via HDMI cable, the menu language information will be retrieved via VIERA Link.
- Settings in the Easy setup can also be changed in the player settings [e.g. language, TV aspect, speaker level and TV audio (⇒ 24)].

1		Turn on the unit. • When the Easy setup screen appears automatically, skip step 2 to 6.
2		Select "DVD/CD".
3		Show the setup menu.
4		Select "OTHERS".
5		Select "EASY SETUP".
6		Select "SET".
7		Select "Yes".
8		Follow the messages and make the settings. (⇒ right, Easy setup settings)
9		Finish Easy setup.

Setting up the radio



Presetting stations automatically

Up to 30 stations can be set.

1 	Select "FM". Main unit: Press [SELECTOR].
2 	Each time you press the button: LOWEST (factory preset): To begin auto preset with the lowest frequency. CURRENT: To begin auto preset with the current frequency.* * To change the frequency, refer "Manual tuning" (⇒ right).
3 	Release the button when "FM AUTO" is displayed. Main unit: Press and hold [MEMORY]. The tuner starts to preset all the stations it can receive into the channels in ascending order.

- "SET OK" is displayed when the stations are set, and the radio tunes to the last preset station.
- "ERROR" is displayed when automatic presetting is unsuccessful. Preset the channels manually (⇒ right).

Confirming the preset channels

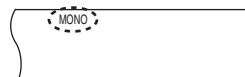
1 	Select "FM". Main unit: Press [SELECTOR].
2 	Select the channel. - To select a 2-digit number e.g. 12: [≥10] ⇒ [1] ⇒ [2] Alternatively, press [v, ^]. - Main unit: Press [-TUNE MODE] to select "PRESET" on the display, and then press [v TUNE ^] to select the channel. When a stereo FM broadcast is being received, "ST" lights in the display.

- The FM setting is also shown on the TV display.

If noise is excessive

When FM is selected

Press and hold [PLAY MODE] (main unit: [-FM MODE]) to display "MONO".



Press and hold the button again to cancel the mode.

- The mode is also cancelled when you change the frequency.

Manual tuning

1 	Select "FM". Main unit: Press [SELECTOR].
2 	Select the frequency. - Main unit: Press [-TUNE MODE] to select "MANUAL" on the display, and then press [v TUNE ^] to select the frequency. - To start automatic tuning, press and hold [◀▶] (main unit: [v TUNE ^]) until the frequency starts scrolling. Tuning stops when a station is found.

Presetting stations manually

Up to 30 stations can be set.

- While listening to the radio broadcast

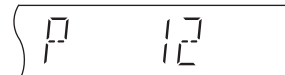
Press [OK].

- While the frequency is flashing on the display

Press the numbered buttons to select a channel.

- To select a 2-digit number e.g. 12: [≥10] ⇒ [1] ⇒ [2]

Alternatively, press [v, ^], and then press [OK].



Main unit:

- While listening to the radio broadcast

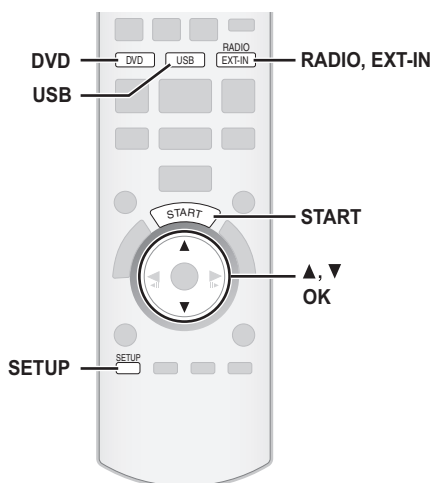
Press [MEMORY] twice.

- While a channel number is flashing on the display

Press [v TUNE ^], and then press [MEMORY].

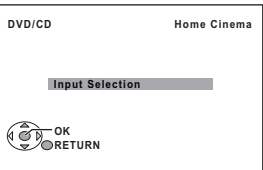
A station previously stored is overwritten when another station is stored in the same channel preset.

Selecting the playback source



Selecting the source from the START menu

You can select desired source or access playback/menus by using the START menu.

- 1 **Show the START menu.**
This unit automatically turns on. (The TV also turns on when using VIERA Link "HDAVI Control". This works only when in "DVD/CD" or "USB" mode without any disc/device being loaded/connected.)
e.g. 
- 2 **Select an item.**
• To exit, press [START].
- 3 **Make the setting.**

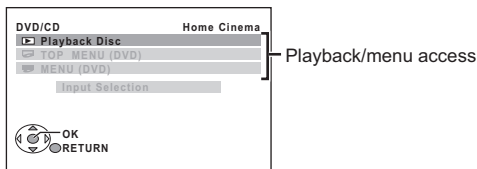

When "Input Selection" is selected

You can select a desired source from the menu.

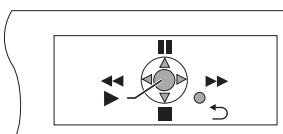
- DVD/CD (⇒ 10), FM (⇒ 11), AUX* (⇒ right), DIGITAL IN* (⇒ right), USB (⇒ 22), MUSIC PORT (⇒ 23)
- * "(TV)" will appear beside "AUX" or "DIGITAL IN", indicating the TV audio setting for VIERA Link "HDAVI Control" (⇒ 20).

When a disc is loaded or an USB device is connected, you can also access playback or menus from the START menu.

e.g. **DVD-V**



When the on-screen control panel appears e.g. **DVD-V** (when "Playback Disc" is selected from the START menu)



You can operate the playback with the indicated controls.

Selecting the source by the remote control

	DVD/CD (⇒ 10)
	Each time you press the button: FM (⇒ 11) AUX*: For audio input through the AUX terminal. D-IN*: For audio input through the OPTICAL IN terminal. (⇒ below) MUSIC P.: For audio input through MUSIC PORT. (⇒ 23) * "(TV)" will appear beside "AUX" or "D-IN", indicating the TV audio setting for VIERA Link "HDAVI Control" (⇒ 20).
	USB (⇒ 22)

Press [SELECTOR] on the main unit to select source from the main unit. (⇒ 35)

Note

Confirm the audio connection to the AUX or OPTICAL IN terminal on the main unit when you select the corresponding sources (⇒ 8). Reduce the volume on the TV to its minimum, and then adjust the volume of the main unit.

Making settings for digital audio input

Select to suit the type of audio from the OPTICAL IN terminal on the main unit.

- 1 While in "D-IN" mode
Press [SETUP] to select "MAIN/SAP", "DRC" or "PCM FIX".
- 2 While the selected mode is displayed
Press [▲, ▼] to make the setting.

MAIN/SAP mode (Only works with Dolby Dual Mono):

- MAIN, SAP***, **MAIN+SAP*** (stereo audio)
- * "SAP" = Secondary Audio Program

Dynamic Range Compression

- DRC ON:** Adjust for clarity even when the volume is low by compressing the range of the lowest sound level and the highest sound level. Convenient for late night viewing. (Only works with Dolby Digital)
- DRC OFF:** The full dynamic range of the signal is reproduced.

PCM FIX mode

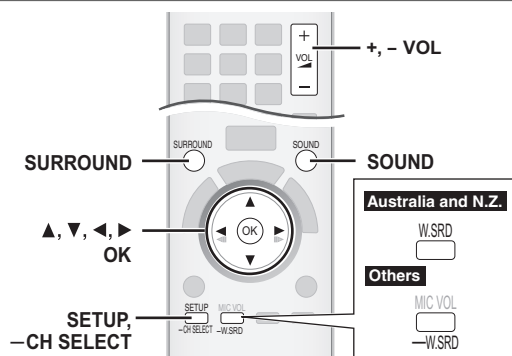
- PCM ON:** Select when receiving only PCM signals.
- PCM OFF:** Select when receiving Dolby Digital and PCM signals.

(When receiving true 5.1-channel surround sound, select "PCM OFF".)

Note

- Audio that is input through the OPTICAL IN terminal is not output from the HDMI terminal.
- Underlined items in the above paragraphs are factory settings.

Enjoying sound from all speakers and various sound effects



- The following sound effects may not be available or may have no effect with some sources.
- You may experience a reduction in sound quality when these sound effects are used with some sources. If this occurs, turn the sound effects off.

Enjoying surround sound effects

SURROUND	SURROUND OUTPUT indicator on the main unit will light up when there is surround sound effect. Each time you press the button: STANDARD: Sound is output as it was recorded/encoded. Speaker output varies depending on the source. MULTI-CH: You can enjoy sound from the front speakers, as well as the surround speakers even when playing a 2-channel sound or non-surround sound. MANUAL: (⇒ below)
While "MANUAL" is displayed	Select other surround modes. Each time you press [◀, ▶]: PLII MOVIE* Suitable for movie software, or softwares recorded in Dolby Surround. (except [DivX]) PLII MUSIC* Adds 5.1-channel effects to stereo sources. (except [DivX]) S.SRND You can enjoy sound from all speakers with stereo sources. (Surround output will be in mono.) STEREO Sound will only be output to the front speakers and the subwoofer from any source.

* "DOLBII" lights in the main unit's display when there is effect.

Recommended modes to enjoy TV audio or stereo sources from all speakers:

- PLII MOVIE
- PLII MUSIC
- S.SRND

Selecting sound mode

1	Select a sound mode. Each time you press the button: EQ: Equalizer SUBW LVL: Subwoofer Level C.FOCUS: Center Focus
2 While the selected mode is displayed	Make settings. Refer to the followings for setting details of each sound effect.

Equalizer

You can select sound quality settings.

Each time you press [◀, ▶]:

HEAVY: Adds punch to rock.

CLEAR: Clarifies higher sounds.

SOFT: For background music.

FLAT: Cancel (no effect is added).

Subwoofer level

You can adjust the amount of bass. The unit automatically selects the most suitable setting according to the type of playback source.

SUB W 1 ↔ SUB W 2 ↔ SUB W 3 ↔ SUB W 4

- The setting you make is retained, and recalled every time you play the same type of source.

Center Focus

(Effective when playing audio containing center channel sound or when "DOLBII" lights in the main unit display.) You can make the sound of the center speaker seem like it is coming from within the TV.

C.FOCUS ON ↔ C.FOCUS OFF

Whisper-mode Surround

Except [DivX]

You can enhance the surround effect for low volume 5.1-channel sound. (Convenient for late night viewing.)

Australia and N.Z. Others —W.SRD (press and hold)	• "(())" lights when there is effect. Australia and N.Z. Each time you press the button: Others Each time you press and hold the button: WHISPER-MODE SRD ON ↓ WHISPER-MODE SRD OFF
--	--

Adjusting the speaker output level manually

Preparation

- To display the picture, turn on the TV and select the appropriate video input mode.
- Press [+, - VOL] to adjust the volume to normal listening level.
- Select "TEST TONE" from "SPEAKER SETTINGS" in AUDIO menu (⇒ 25).

1



Enter test tone mode.

e.g.

AUDIO-SPEAKER SETTINGS-TEST TONE	
SPEAKER	TRIM LEVEL
LEFT	-
CENTER	0dB
RIGHT	+
SURROUND RIGHT	0dB
SURROUND LEFT	0dB
SET RETURN EXIT : SETUP	

Test tone will be output to each channel in the following order.

LEFT, CENTER, RIGHT, SURROUND RIGHT, SURROUND LEFT

2



Adjust the speaker level for each speaker. (CENTER, SURROUND RIGHT, SURROUND LEFT)

–6 dB to +6 dB (Factory preset: 0 dB)

- To exit the screen, press [SETUP].

To adjust speaker level during play

(Effective when playing 5.1-channel sound or when "DOLBII" lights.)

- ① Press and hold [—CH SELECT] to select the speaker.**

While the speaker channel is displayed, press [—CH SELECT].

L → C → R → RS → LS → SW

- You can adjust SW (Subwoofer) only if the disc includes a subwoofer channel and "DOLBII" is not lit.
- "S" appears on the main unit's display when you have selected "S.SRND" (⇒ left, Enjoying surround sound effects). In this case, you can adjust both surround speaker levels at the same time using [▲, ▼].

S: –6 dB to +6 dB

- ② Press [▲] (increase) or [▼] (decrease) to adjust the speaker level for each speaker.**

C, RS, LS, SW: –6 dB to +6 dB

(L, R: Only the balance is adjustable.)

To adjust the balance of the front speakers, while "L" or "R" is selected, press [◀, ▶].

Basic play

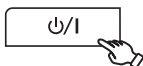
If you are experiencing problems, refer to troubleshooting (⇒ 30 to 31)

Preparation

To display the picture, turn on your TV and change its video input mode (e.g. VIDEO 1, AV 1, HDMI, etc.) to suit the connections to this unit.

Using the main unit

1

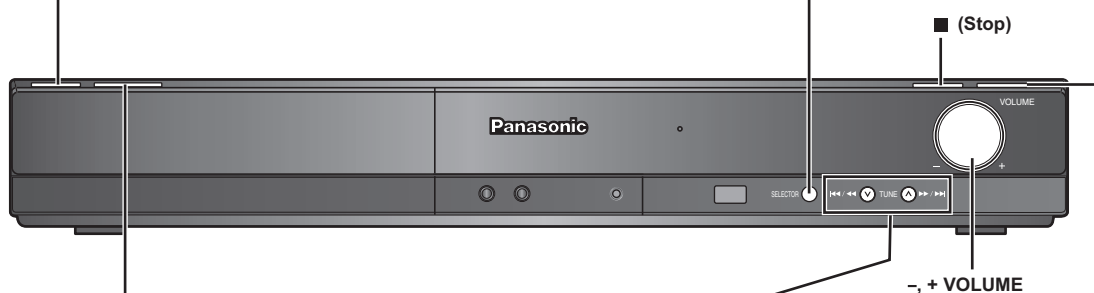


Turn on the unit.

2



Select "DVD/CD".



3



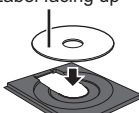
Open the disc tray.

4

Load the disc.

- Load double-sided discs so the label for the side you want to play is facing up.

Label facing up



- For DVD-RAM, remove the disc from its cartridge before use.



Press to skip.
Press and hold to

- search during play
- start slow-motion play during pause
- Press [▶] (Play) to start normal play.

5

MEMORY



Start play.

- Turn [–, + VOLUME] to adjust the volume.

Note

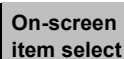
• DISC CONTINUES TO ROTATE WHILE MENUS ARE DISPLAYED.

To preserve the unit's motor and your TV screen, press [■] (Stop) when you are finished with the menus.

• Total title number may not be displayed properly on +R/+RW.

• ABOUT DIVX VIDEO:

DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified device that plays DivX video.



1 2 3
4 5 6
7 8 9
0 $\frac{+}{-}$ ≥ 10

e.g. To select 12:
 $[\geq 10] \Rightarrow [1] \Rightarrow [2]$

VCD with playback control
Press [■ STOP] to cancel the PBC
function, and then press the
numbered buttons.

[DIRECT NAVIGATOR](#)
[TOP MENU](#)

DVD-V
Shows a disc top menu.

DVD-VR
Press the button to show the programs (⇒ 17).

MENU
○ PLAY
LIST

DVD-V
Shows a disc menu.

DVD-VR
Press the button to show a play list
(⇒ 17).

RETURN

VCD with playback control
Shows a disc menu.

RETURN

Australia and N.Z. DVD-VR DVD-V WMA MP3

FL DISPLAY
[]
-SLEEP

Time display
↔ Information display
(e.g. **DVD-VR** Program number)

ECHO
[]
-FL DISPLAY
(press and hold)

JPEG
SLIDE ↔ Contents number

▶ PLAY

(Remote control only)
The main unit automatically turns on and starts playing the disc in the tray.

■ STOP

The position is memorised while “RESUME STOP” is on the screen.

- Press [▶ PLAY] to resume.
- Press [■ STOP] again to clear the position.

■ ■ PAUSE

- Press [▶ PLAY] to restart play.

(during play)

- Up to 5 steps.
- Press [▶ PLAY] to start normal play.

Slow-motion
(during pause)

- **VCD** Slow-motion: Forward direction only.
- **MPEG4 DivX** Slow-motion: Does not work.

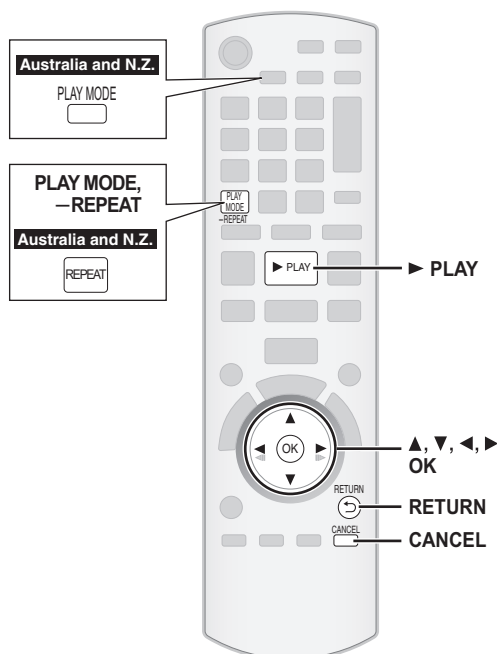
Frame-by-frame
(during pause)

DVD-VR DVD-V VCD

- **DVD-VR** **VCD** Forward direction only.

Other modes of play

Playing Discs



Repeat play

This works only when the elapsed play time can be displayed. It also works with all JPEG content.

Australia and N.Z.

During play



Select an item to be repeated.

e.g. **DVD-V**

◀ TITLE → ▶ CHAP. → ▶ OFF

To cancel, select "OFF".

Others

1 During play



(press and hold)

Show the repeat mode.

2 While the repeat mode is displayed



Select an item to be repeated.

e.g. **DVD-V**

◀ TITLE → ▶ CHAP. → ▶ OFF

To cancel, select "OFF".

Items shown differ depending on the type of disc and playback mode.

Program and Random play

DVD-V | VCD | CD | WMA | MP3 | JPEG | MPEG4 | DivX

Preparation

While stopped

Australia and N.Z.



Select the play mode.

Program and random playback screens appear sequentially.

Program → Random
Exit program and random screens ←

Others



- For a disc with both WMA/MP3 and JPEG contents, select either music or picture contents.
WMA/MP3: Select "MUSIC PROGRAM" or "MUSIC RANDOM".
JPEG: Select "PICTURE PROGRAM" or "PICTURE RANDOM".
- DVD-V** Some items cannot be played even if you have programmed them.

Program play (up to 30 items)

1



Select an item.

e.g. **DVD-V**

DVD-V PROGRAM	
SELECT TITLE	TITLE CHAPTER
TITLE 1	1
TITLE 2	2
TITLE 3	3
TITLE 4	4
	5
	6
	7
	8
	9
	10
START:PLAY CLEAR ALL	

- Repeat this step to program other items.
- To return to the previous menu, press [RETURN].

2



Start play.

To select all the items

Press [▲, ▼] to select "ALL" and press [OK].

To clear the selected program

- Press [▶] and then press [▲, ▼] to select the program.
- Press [CANCEL].

To clear the whole program

Press [▶] several times to select "CLEAR ALL", and then press [OK].
The whole program is also cleared when the disc tray is opened, the unit is turned off or another source is selected.

Random play

1



(Only when the disc has groups or multiple titles.)

Select a group or title.
e.g. **DVD-V**

DVD-V RANDOM	
SELECT TITLE	
TITLE 1	
* TITLE 2	
TITLE 3	
PRESS PLAY TO START	

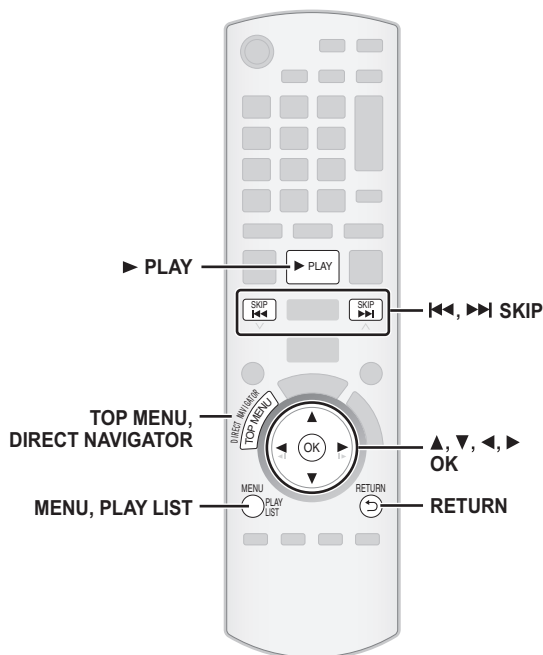
- "*" represents selected. To deselect, press [OK] again.

2



Start play.

Using navigation menus



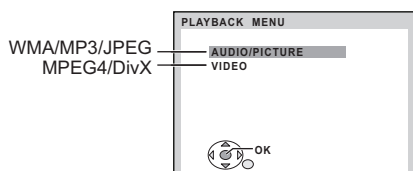
Playing data discs

WMA MP3 JPEG MPEG4 DivX

DVD-VR Select "DATA" in "DVD-VR/DATA" (⇒ 26, OTHERS menu) to play WMA, MP3, JPEG, MPEG4 or DivX contents.

Using PLAYBACK MENU

"PLAYBACK MENU" screen appears when the disc contains both video (MPEG4/DivX) and other format (WMA/MP3/JPEG).



Select "AUDIO/PICTURE" or "VIDEO".

- To start play, press [▶ PLAY].
- To select an item to play, refer "Playing from the selected item" (⇒ below).

Playing from the selected item

You can select to play from your desired item while the "DATA-DISC" screen is displayed.

e.g.

Group (Folder):



Content (File):



: WMA/MP3

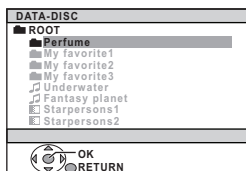


: JPEG



: MPEG4/DivX

- To display/exit the screen, press [MENU].



Select an item.

- Press [◀, ▶] to skip page by page.
- To return to 1 level up from the current folder, press [RETURN].
- Maximum: 28 characters for file/folder name.

Play starts from the selected content.

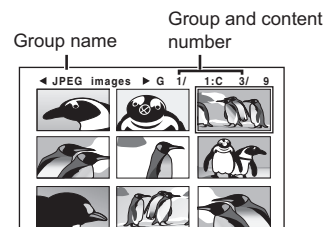
Selecting the picture in Thumbnail menu

JPEG

1 While picture is displayed



e.g.



2 ▲, ▼, ◀, ▶



Select a picture.

- Press [◀, ▶] SKIP to skip page by page.

To go to other group

- 1 Press [▲] to select the group name.
- 2 Press [◀, ▶] to select the group and press [OK].

Playing RAM and DVD-R/-RW (DVD-VR) discs

DVD-VR

- Titles appear only if the titles are recorded on the disc.
- You cannot edit programs, play lists and disc titles.

Playing the programs

1 While stopped



e.g.

PG	DATE	LENGTH	TITLE
1	10/11 02:15	0:16:02	LIVE CONCERT
2	12/05 01:30	0:38:25	AUTO ACTION
3	04/03 02:10	1:16:05	CINEMA

- To exit the screen, press [DIRECT NAVIGATOR].

2 ▲, ▼ → OK



Select the program.

- Press [◀, ▶] to skip page by page.

Playing a play list

This works only when the disc contains a play list.

1 While stopped



e.g.

PL	DATE	LENGTH	TITLE
1	11/11 00:01	0:00:10	CITY PENGUIN
2	12/01 01:20	0:01:20	FOOTBALL
3	01/02 01:10	1:10:04	SPECIAL

- To exit the screen, press [PLAY LIST].

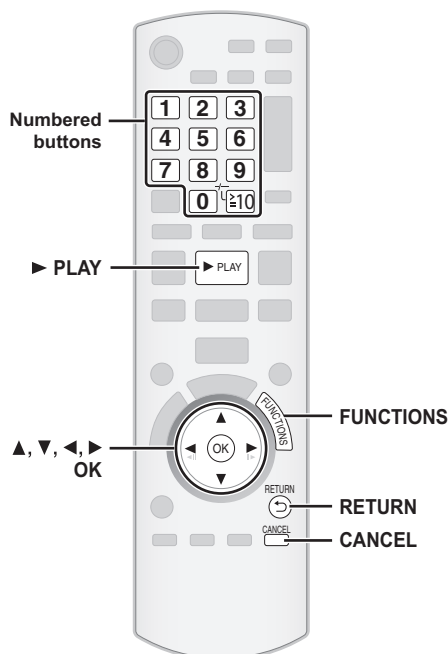
2 ▲, ▼ → OK



Select the play list.

- Press [◀, ▶] to skip page by page.

Using on-screen menus



Playing Discs

- 1 Show the on-screen menu.**
Each time you press the button:
Menu 1 (Disc/Play)
Menu 2 (Video)
Menu 3 (Audio)
Menu 4 (HDMI)
Exit
Menu 4 (Karaoke)
Menu 5 (HDMI)
Exit
e.g. Menu 1 (Disc/Play) **DVD-V**

Current item
- 2 Select the item.**
e.g. Menu 1 (Disc/Play) **DVD-V**

Current setting
- 3 Make the settings.**
- 4 Exit.**

Items shown differ depending on the type of disc.

Menu 1 (Disc/Play)

TRACK SEARCH
TITLE SEARCH
CONTENT SEARCH
CHAPTER SEARCH
PG SEARCH
(Program Search)
PL SEARCH
(Playlist Search)

To start from a specific item

- **VCD** This does not work when using playback control.

e.g. **DVD-V**: T2 C5

To select numbers for data disc

e.g. 123: [≥10] ⇒ [1] ⇒ [2] ⇒ [3] ⇒ [OK]



AUDIO

DVD-V **DivX** (with multiple soundtracks)

To select audio soundtrack

DVD-VR **VCD**

To select "L", "R", "L+R" or "L R"

DVD-V (Karaoke disc)

To select "ON" or "OFF" for vocals

To select "OFF", "V1", "V2" or "V1+V2" for vocal selections

Actual operations depend on the disc. Read the disc's instructions for details.

Signal type/data

LPCM/PPCM/□□□/DTS/MP3/MPEG: Signal type
kHz (Sampling frequency)/bit/ch (Number of channels)

e.g.

3/2 1ch

.1: Low frequency effect
(not displayed if there is no signal)

0: No surround

1: Mono surround

2: Stereo surround (left/right)

1: Center

2: Front left+Front right

3: Front left+Front right+Center

- **DivX** It may take some time for play to start if you change the audio on a DivX video disc.



PLAY SPEED

DVD-VR **DVD-V**

To change play speed

– from "×0.6" to "×1.4" (in 0.1-unit steps)

- Press **▶** **PLAY** to return to normal play.

- After you change the speed

– Dolby Pro Logic II has no effect.

– Audio output switches to 2-channel stereo.

– Sampling frequency of 96 kHz is converted to 48 kHz.

- This function may not work depending on the disc's recording.



REPEAT MODE

(⇒ 16, Repeat play)

A-B Repeat (To repeat a specified section)

Except **JPEG** **MPEG4** **DivX** **DVD-VR** (Still picture part) **VCD** (SVCD)

Press **[OK]** at the starting and ending points.

- Select "OFF" to cancel.



SUBTITLE

DVD-V **DivX** (with multiple subtitles)

VCD (SVCD only)

To select subtitle language

- On +R/+RW, a subtitle number may be shown for subtitles that are not displayed.

DVD-VR (with subtitle on/off information)

To select "ON" or "OFF"

- This may not work depending on the disc.



ANGLE

DVD-V (with multiple angles)

To select a video angle

	JPEG To select "ON" or "OFF" for picture's date display
DATE DISPLAY	
	To rotate a picture (during pause) JPEG : 0 ↔ 90 ↔ 180 ↔ 270
ROTATION	

Menu 2 (Video)

	PICTURE MODE	NORMAL CINEMA1: Mellows images and enhances detail in dark scenes. CINEMA2: Sharpens images and enhances detail in dark scenes. DYNAMIC: Enhances the contrast for powerful images. ANIMATION: Suitable for animation.
	ZOOM	To select zoom sizes NORMAL, AUTO (DVD-VR DVD-V VCD), ×2, ×4 • JPEG: during pause
	TRANSFER MODE	If you have chosen "480p"/"576p"/"720p"/"1080p" (progressive), "1080i" (interlaced) ["VIDEO FORMAT" in Menu 5 (HDMI)] or "PROGRESSIVE" under "VIDEO OUT (I/P)" (⇒ 25, VIDEO menu), select the method of conversion for progressive output to suit the type of material. • The setting will return to "AUTO" or "AUTO1" when the disc tray is opened, the unit is turned off or another source is selected. When playing PAL discs AUTO: Automatically detects the film and video content, and appropriately converts it. VIDEO: Select when using "AUTO", and the content is distorted. FILM: Select this if the edges of the film content appear jagged or rough when "AUTO" is selected. However, if the video content is distorted as shown in the illustration to the right, then select "AUTO".  When playing NTSC discs AUTO1: Automatically detects the film and video content, and appropriately converts it. AUTO2: In addition to "AUTO1", automatically detects film contents with different frame rates and appropriately converts it. VIDEO: Select if the video content is distorted when using "AUTO1" or "AUTO2".
	SOURCE SELECT DivX	When you select "AUTO" the constructing method of the DivX contents is automatically distinguished and output. If the picture is distorted, select "INTERLACE" or "PROGRESSIVE" depending on which constructing method was used when the contents were recorded to disc. AUTO, INTERLACE, PROGRESSIVE

Menu 3 (Audio)

	DIALOGUE ENHANCER	To make the dialogue in movies easier to hear DVD-V (Dolby Digital, DTS, 3-channel or higher, with the dialogue recorded in the center channel) DivX (Dolby Digital, 3-channel or higher, with the dialogue recorded in the center channel) OFF, ON
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Menu 4 (Karaoke) [except Australia and N.Z.]

	KARAOKE MODE	To select "ON" or "OFF" for Karaoke mode (⇒ 21, Enjoying Karaoke [except Australia and N.Z.]) • When you select "ON", "PLAY SPEED" (⇒ 18) and the surround sound effects (⇒ 13) do not work.
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Menu 5 (HDMI)

HDMI	To show HDMI information. (⇒ below, Confirming HDMI information)
HDMI STATUS	
 HD ENHANCER	This works when the HDMI connection is being used with "VIDEO PRIORITY" (⇒ 25, HDMI menu) set to "ON". To sharpen the "720p", "1080i" and "1080p" picture quality OFF, 1 (weakest) to 3 (strongest)
 VIDEO FORMAT	This works when the HDMI connection is being used with "VIDEO PRIORITY" (⇒ 25, HDMI menu) set to "ON". To select suitable picture quality with your TV (Video recordings will be converted to, and output as, high-definition video.) ※ 480p/576p/720p/1080p (progressive) ※ 480i/576i/1080i (interlaced) ● If the picture is distorted, press and hold [CANCEL] until the picture is displayed correctly. (The output will return to "480p"/"576p".) ※ The numbers displayed depend on the disc being played. One of the above numbers is displayed.
 COLOR SPACE (or COLOUR SPACE)	This works when the HDMI connection is being used with "VIDEO PRIORITY" (⇒ 25, HDMI menu) set to "ON". To select suitable picture colour with your TV YCbCr 4:2:2 YCbCr 4:4:4 RGB ● If the setting above is not compatible with your TV, it will not be displayed.

Confirming HDMI information

e.g.

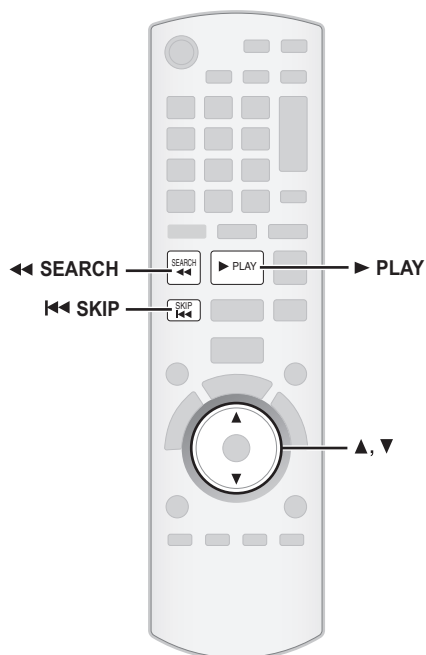
HDMI — INFORMATION		
①	CONNECTED STATE	CONNECTED
②	AUDIO STREAM	PCM
③	MAX CHANNEL	2ch
④	VIDEO FORMAT	720p
⑤	COLOR SPACE	YCbCr 4:4:4

- ① Connection status
② Shows the output signal type.
③ Shows the number of audio channels.
④ (⇒ above, VIDEO FORMAT)
⑤ (⇒ above, COLOR SPACE (or COLOUR SPACE))

Note

When "OFF" is selected in "AUDIO OUT" (⇒ 25, HDMI menu), "—" will be displayed in "AUDIO STREAM".

Using the VIERA Link “HDAVI Control™”



VIERA Link “HDAVI Control”

VIERA Link “HDAVI Control” is a convenient function that offers linked operations of this unit, and a Panasonic TV (VIERA) under “HDAVI Control”. You can use this function by connecting the equipment with the HDMI cable. See the operating instructions for connected equipment for operational details.

- VIERA Link “HDAVI Control”, based on the control functions provided by HDMI which is an industry standard known as HDMI CEC (Consumer Electronics Control), is a unique function that we have developed and added. As such, its operation with other manufacturers' equipment that supports HDMI CEC cannot be guaranteed.
- This unit supports “HDAVI Control 4” function. “HDAVI Control 4” is the newest standard (current as of December 2008) for Panasonic's HDAVI Control compatible equipment. This standard is compatible with Panasonic's conventional HDAVI equipment.
- Please refer to individual manuals for other manufacturers' equipment supporting VIERA Link function.

The TV with “HDAVI Control 2 or later” function enables the following operation: VIERA Link Control only with TV's remote control (for “HDAVI Control 2 or later”) (⇒ 21).

Preparation

- Confirm that the HDMI connection has been made (⇒ 8).
- Set “VIERA Link” to “ON” (⇒ 25, HDMI menu).
- To complete and activate the connection correctly, turn on all VIERA Link “HDAVI Control” compatible equipment and set the TV to the corresponding HDMI input mode for this unit.

Setting the TV audio for VIERA Link “HDAVI Control”

Select “AUX” or “DIGITAL IN” to work with the linked operations. Refer to TV audio setting in Easy setup (⇒ 10) or “TV AUDIO” in HDMI menu (⇒ 26).

Confirm the audio connection to the AUX terminal (for “AUX”) or OPTICAL IN terminal (for “DIGITAL IN”) (⇒ 8).

Whenever the connection or settings are changed, reconfirm the points above.

※ “AUX” or “D-IN” (“DIGITAL IN”) works depending on the TV audio setting (⇒ above, Setting the TV audio for VIERA Link “HDAVI Control”).

Auto lip sync

(Available when using VIERA Link “HDAVI Control” with “HDAVI Control 3 or later” compatible TV)

This function automatically provides synchronised audio and video output. (This works only when the source is “DVD/CD”, “USB”, “AUX” or “D-IN”.)

- When using “DVD/CD” or “USB” as the source, set “TIME DELAY” in VIDEO menu to “0 ms/AUTO” (⇒ 25).

One touch play

You can turn on this unit and the TV, and start playing the disc with a single press of a button.

During standby mode



(Remote control only)

Start disc playback.

This unit's speakers will be automatically activated (⇒ below).

Note

Playback may not be immediately displayed on the TV. If you miss the beginning portion of playback, press [◀◀] or [◀◀] to go back to where playback started.

Auto input switching

- When you switch the TV input to TV tuner mode, this unit will automatically switch to “AUX” or “D-IN”.
- When you start disc play, the TV will automatically switch its input mode for this unit.

Power off link

When the TV is turned off, this unit goes into standby mode automatically. To continue audio playback even when the TV is turned off, select “VIDEO” (⇒ 26, “POWER OFF LINK” in HDMI menu).

Note

- When you press [⏻], only this unit turns off. Other connected equipment compatible with VIERA Link “HDAVI Control” stays on.
- If this unit is connected to a “HDAVI Control 4” compatible TV with the “Intelligent Auto Standby” setting activated on the TV, the main unit will be automatically turned to standby under the following conditions: e.g.,

- when changing the TV input from the one the main unit is connected
- when changing the speaker use from this unit's speakers to the TV speakers

For details, refer also to the operating instructions for your TV.

Speaker control

You can select whether audio is output from this unit's speakers or the TV speakers by using the TV menu settings. For details, refer to the operating instructions for your TV.

Home Cinema

This unit's speakers are active.

- When you turn on this unit, this unit's speakers will be automatically activated.
- When this unit is in standby mode, changing the TV speakers to this unit's speakers in the TV menu will automatically turn this unit on and select “AUX” or “D-IN” as the source.
- The TV speakers are automatically muted.
- You can control the volume setting using the volume or mute button on the TV's remote control. (The volume level is displayed on the main unit's display.)
- To cancel muting, you can also use this unit's remote control (⇒ 34).
- If you turn off this unit, TV speakers will be automatically activated.

TV

TV speakers are active.

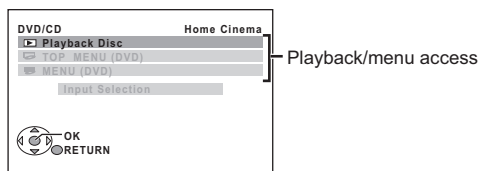
- The volume of this unit is set to “0”.
 - This function works only when “DVD/CD”, “USB”, “AUX” or “D-IN” is selected as the source on this unit.
- Audio output is 2-channel audio.

When switching between this unit speakers and TV speakers, the TV screen may be blank for several seconds.

VIERA Link Control only with TV's remote control (for "HDAVI Control 2 or later")

You can control the playback menus of this unit with the TV's remote control. When operating the TV's remote control, refer to the below illustration for operation buttons.

- 1 Select this unit's operation menu by using the TV menu settings.
(For details, refer to the operating instructions of your TV.)
The START menu will be shown.
e.g. **[DVD-V]**

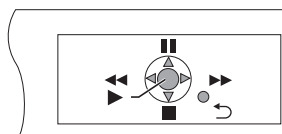


- The START menu can also be shown by using a button on the TV's remote control (e.g. [OPTION]).
– When "DVD/CD" or "USB" is selected as the source, the TV's remote control works only during stop mode.

- 2 Select the desired item on the START menu (⇒ 12).

When the on-screen control panel appears

e.g. **[DVD-V]** (when "Playback Disc" is selected from the START menu.)



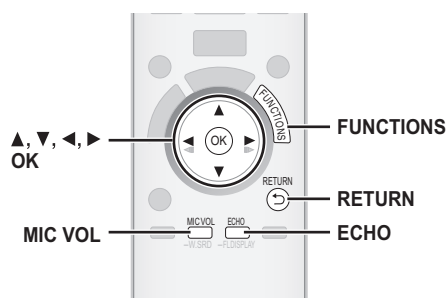
You can operate the playback with the indicated controls.

- The on-screen control panel can also be shown by using a button on the TV's remote control (e.g. [OPTION]).
– This works only during "DVD/CD" or "USB" playback and resume modes.

Note

- Depending on the menu, some button operations cannot be performed from the TV's remote control.
- You cannot input numbers with the numbered buttons on the TV's remote control ([0] to [9]). Use this unit's remote control to select the play list etc.

Enjoying Karaoke [except Australia and N.Z.]



Note

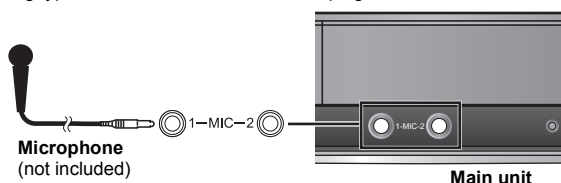
Before connecting/disconnecting the microphone(s), reduce the volume of the main unit to its minimum.

Preparation

Select "DVD/CD" or "USB" in accordance with the source.

Connect the microphone(s).

Plug type: Ø6.3 mm monaural standard plug



1 Start playback and adjust the volume of the main unit.

- 5.1-channel sound will be down-mixed to 2-channel.

2



Adjust the microphone volume and start singing.

MIC VOL1 (lowest) to MIC VOL4 (highest).

- If a strange noise (howling) is emitted during use, move the microphone away from the speakers, or lower the microphone volume.
- When you are not using the microphone, disconnect it from the microphone jack, and lower the microphone volume to "MIC VOL1".

Adding echo effect



ECHO 1 → ECHO 2 → ECHO 3 → ECHO 4
↑ ECHO OFF ↓

The effect increases with the level.

- To cancel, select "ECHO OFF".

(Continued on next page)

Enjoying Karaoke [except **Australia and N.Z.**] (continued)

Using Karaoke mode

- 1  Select the Karaoke mode on-screen menu. [→ 19, Menu 4 (Karaoke)]
e.g. 
- 2  Select "ON".

- 3  Select the item.

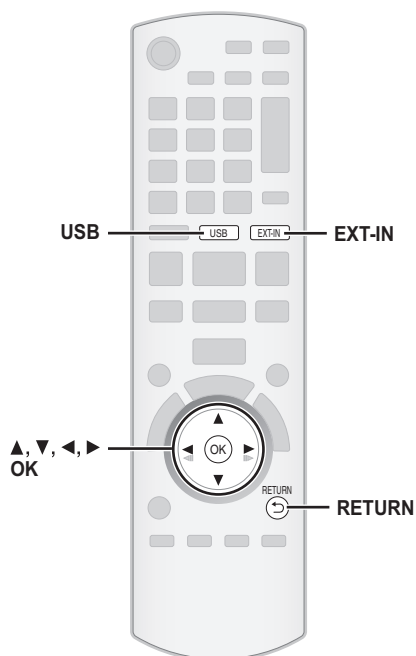
- 4  Make the settings.
• To exit the screen, press [RETURN].

- Karaoke mode will automatically turn off when you turn this unit off, open the disc tray or select another source.

Items shown differ depending on the type of disc.

 AUDIO CHANGE	To change the audio mode (when using Karaoke formatted disc) DVD-V Solo disc OFF: Vocals off ON: Vocals on Duet disc OFF: Vocals off V1+V2: Vocal 1 and 2 V1: Vocal 1 V2: Vocal 2 DVD-V VCD L R: Left channel sound is heard from the left speaker and right channel sound is heard from the right speaker (Accompaniment and vocals) L: Only left channel sound (Accompaniment only) R: Only right channel sound (Vocals only) L+R: Left and right channel sounds are mixed and heard from both speakers "L" and "R" may be reversed on some discs.
 KEY CONTROL	Except MPEG4 DivX To change the key of a song ↳ 6 (lowest) to #6 (highest) OFF: Normal
 VOCAL CANCEL	Except MPEG4 DivX To reduce the vocal level (when using stereo source not formatted for Karaoke) ON: Reduces vocal level OFF: Cancel • This may not work depending on the type of song.

Operating other devices



You can play an external device through your home theater system.

Playing from a USB device

You can connect and play tracks or files from USB mass storage class devices.

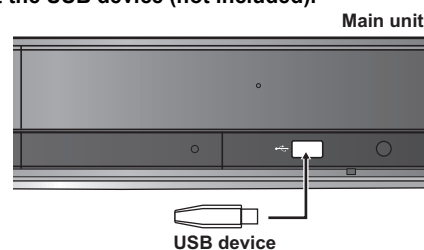
Devices which are defined as USB mass storage class:

- USB devices that support bulk only transfer.
- USB devices that support USB 2.0 full speed.

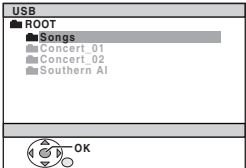
Preparation

- Before connecting any USB mass storage device to the unit, ensure that the data stored therein has been backed up.
- It is not recommended to use a USB extension cable. The USB device connected using the cable will not be recognised by this unit.

Connect the USB device (not included).



1 Select "USB".
The menu screen appears.
e.g.



- If "PLAYBACK MENU" screen appears, select "AUDIO/PICTURE" or "VIDEO" by pressing [$\blacktriangle$, $\blacktriangledown$] and then [OK].
- To display/exit the screen, press [MENU].

2 Select an item.
Press [$\blacktriangle$, $\blacktriangledown$] to skip page by page.
To return to 1 level up from the current folder, press [RETURN].



Play starts from the selected content.

- For other operating functions, they are similar to those described in "Playing Discs" (⇒ 14 to 19).

Supported Formats

Still pictures	JPEG (Extension: ".jpg", ".JPG", ".jpeg", ".JPEG")
Music	MP3 (Extension: ".mp3", ".MP3") WMA (Extension: ".wma", ".WMA")
Video	MPEG4* (Extension: ".asf", ".ASF") DivX (Extension: ".divx", ".DIVX", ".avi", ".AVI")

* For Panasonic D-Snap/DIGA

Note

- Maximum: 255 folders (excluding Root folder), 4000 files, 28 characters for file/folder name.
- Only one memory card will be selected when connecting a multiport USB card reader. Typically the first memory card inserted.

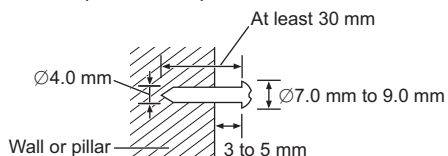
Speaker installation option

Attaching to a wall

You can attach all of the speakers (except subwoofer) to a wall.

- The wall or pillar on which the speakers are to be attached should be capable of supporting 10 kg per screw. Consult a qualified building contractor when attaching the speakers to a wall. Improper attachment may result in damage to the wall and speakers.

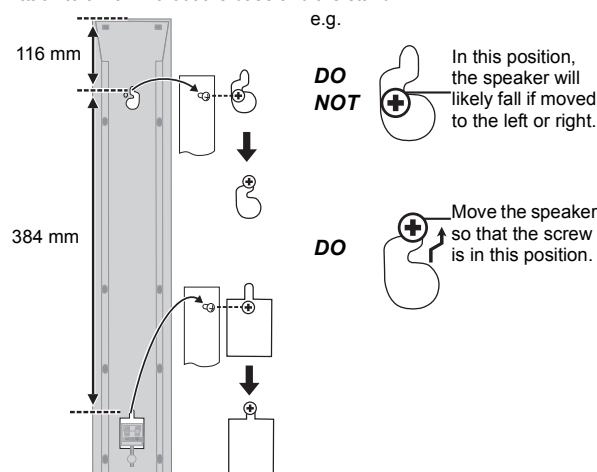
① Drive a screw (not included) into the wall.



② Fit the speaker securely onto the screw(s) with the hole(s).

PT175 Front speaker

Attach to a wall without the base and the stand.



PT170 Front speaker



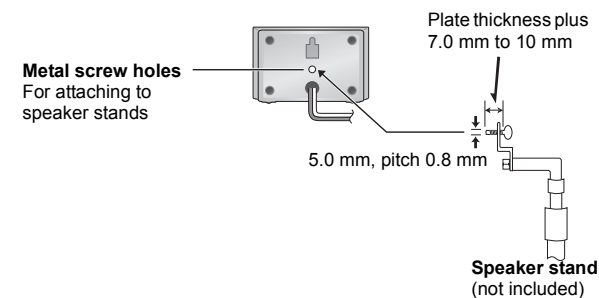
PT175 Fitting speaker stands (not included)

Center and surround speakers only

Ensure the stands meet these conditions before purchasing them. Note the diameter and length of the screws and the distance between screws as shown in the diagram.

- The stands must be able to support over 10 kg.
- The stands must be stable even if the speakers are in a high position.

e.g. **Center speaker**



Playing from MUSIC PORT

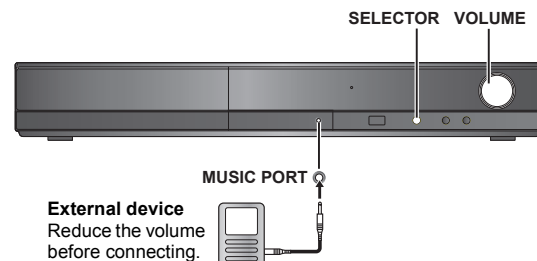
The MUSIC PORT allows you to connect and enjoy music from an external music device (e.g. MP3 player) through your home theater system.

Preparation

- To avoid distorted sound, make sure that any equalizer function of your external device is turned off.
- Reduce the volume of the main unit and external device.

Connect the external music device (not included).

Plug type: $\varnothing$ 3.5 mm stereo mini plug

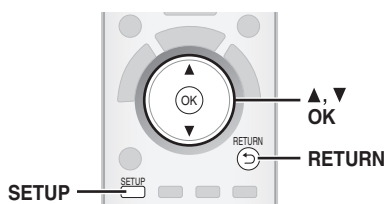


External device
Reduce the volume before connecting.

Select "MUSIC P."

Adjust the volume on the external device to a normal listening level, and then adjust the volume of the main unit.

Changing the player settings



1		Show the setup menu.
2		Select the menu. Display the current setting of the items below
3		Select the item.
4		Make the settings.
5		Exit.

- The settings remain intact even if you switch the unit to standby.
- Underlined items are the factory settings in the following menus.

DISC menu

AUDIO

Choose the audio language.

- ENGLISH (Language options)^{#1}
- ORIGINAL^{#2}
- OTHER ---^{#3}

SUBTITLE

Choose the subtitle language.

- AUTO^{#4}
- ENGLISH
- OTHER ---^{#3}

MENUS

Choose the language for disc menus.

- ENGLISH (Language options)^{#1}
- OTHER ---^{#3}

^{#1} Language options

Australia and N.Z.

- FRENCH
- SPANISH
- GERMAN
- ITALIAN
- SWEDISH
- DUTCH
- POLISH

Southeast Asia, Hong Kong and Thailand

- CHINESE TRAD.

Others

- FRENCH
- SPANISH
- GERMAN
- RUSSIAN
- HUNGARIAN
- CZECH
- POLISH

^{#2} The original language designated on the disc is selected.

^{#3} Input the appropriate code from the language code list (⇒ 35).

^{#4} If the language selected for "AUDIO" is not available, subtitles appear in that language (if available on the disc).

RATINGS

Set a rating level to limit DVD-Video play.

Setting ratings (When level 8 is selected)

- 0 LOCK ALL: To prevent play of discs without rating levels.
- 1 to 7
- 8 NO LIMIT

When you select your ratings level, a password screen is shown.

Follow the on-screen instructions.

Do not forget your password.

A message screen will be shown if a DVD-Video disc exceeding the rating level is inserted in the unit.

Follow the on-screen instructions.

PASSWORD

Change the password for "RATINGS".

- SETTING

To change ratings (When level 0 to 7 is selected)

- CHANGE: Follow the on-screen instructions.

VIDEO menu

TV ASPECT

Choose the setting to suit your TV.

- **16:9**: Widescreen TV (16:9)
- **4:3PAN&SCAN**: Regular aspect TV (4:3)
The sides of the widescreen picture are cut off so it fills the screen (unless prohibited by the disc).
- **4:3LETTERBOX**: Regular aspect TV (4:3)
Widescreen picture is shown in the letterbox style.



TIME DELAY

When connected with a Plasma display, adjust if you notice the audio is out of sync with the video.

- **0 ms/AUTO** ● 20 ms ● 40 ms ● 60 ms
- 80 ms ● 100 ms

When using VIERA Link "HDAVI Control" with "HDAVI Control 3 or later" compatible TV (⇒ 20), select "0 ms/AUTO".
Audio and video will automatically be set in sync.

NTSC DISC OUT

Choose PAL 60 or NTSC output when playing NTSC discs (⇒ 28, Video systems).

- **NTSC**: When connected to an NTSC TV.
- **PAL60**: When connected to a PAL TV.

Southeast Asia, Hong Kong and Thailand: "NTSC" is the factory preset.

STILL MODE

Specify the type of picture shown when paused.

- **AUTO**
- **FIELD***: The picture is not blurred, but picture quality is lower.
- **FRAME***: Overall quality is high, but the picture may appear blurred.

* Refer to "Frame still and field still" (⇒ 27, Glossary).

VIDEO OUT (I/P)

Select "PROGRESSIVE" only if connecting to a progressive output compatible TV.

- **INTERLACE**
- **PROGRESSIVE**: A message screen will appear. Follow the on-screen instructions.

AUDIO menu

Select to suit the type of equipment you connected to the HDMI AV OUT terminal.

Select "BITSTREAM" when the equipment can decode the bitstream (digital form of 5.1-channel data). Otherwise, select "PCM".
(If the bitstream is output to the equipment without a decoder, high levels of noise can be output and may damage your speakers and hearing.)

DOLBY DIGITAL*

- **BITSTREAM**
- **PCM**

DTS*

- **BITSTREAM**
- **PCM**

MPEG* [except **Southeast Asia, Hong Kong and Thailand**]

- **BITSTREAM**
- **PCM**

* When audio is output from HDMI AV OUT terminal, and the connected equipment does not support the item selected, the actual output will depend on the performance of this connected equipment.

DYNAMIC RANGE

- **ON**: Adjusts for clarity even when the volume is low. Convenient for late night viewing. (Only works with Dolby Digital)
- **OFF**

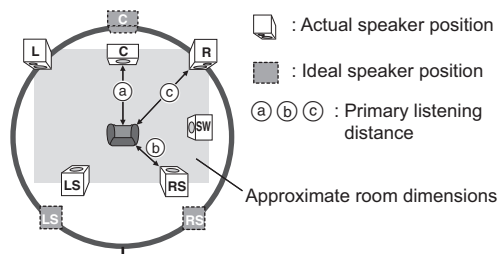
SPEAKER SETTINGS

Select the delay time of the speakers.

(Effective when playing 5.1-channel sound)

(Center and surround speakers only)

For optimum listening with 5.1-channel sound, all the speakers, except for the subwoofer, should be the same distance from the seating position. If you have to place the center or surround speakers closer to the seating position, adjust the delay time to make up for the difference.



Circle of constant primary listening distance

If either distance (a) or (b) is less than (c), find the difference in the table and change to the recommended setting.

a Center speaker		b Surround speaker	
Difference (Approx.)	Setting	Difference (Approx.)	Setting
30 cm	1ms	150 cm	5ms
60 cm	2ms	300 cm	10ms
90 cm	3ms	450 cm	15ms
120 cm	4ms		
150 cm	5ms		

● SETTINGS:

- **C DELAY (Center Delay):**

0ms, 1ms, 2ms, 3ms, 4ms, 5ms

Select the delay time for your center speaker.

- **LS/RS DELAY (Left Surround/Right Surround Delay):**

0ms, 5ms, 10ms, 15ms

Select the delay time for your surround speakers.

- **TEST TONE: SETTING**

Use the test tone for speaker level adjustments (⇒ 13, Adjusting the speaker output level manually).

DISPLAY menu

LANGUAGE

Choose the language for the on-screen messages.

Australia and N.Z.

- **ENGLISH** ● FRANÇAIS ● ESPAÑOL ● DEUTSCH
- ITALIANO ● SVENSKA ● NEDERLANDS ● POLSKI

Southeast Asia, Hong Kong and Thailand

- **ENGLISH** ● 繁體中文

Others

- **ENGLISH** ● FRANÇAIS ● ESPAÑOL ● DEUTSCH
- РУССКИЙ ● MAGYAR ● ČESKY ● POLSKI

HDMI menu

VIDEO PRIORITY

- **ON**: When using the HDMI AV OUT terminal for video output. The resolution of the video output from the HDMI AV OUT terminal is optimized according to the capability of the connected equipment (e.g. TV).
- **OFF**: When not using the HDMI AV OUT terminal for video output. Video output will not depend on the connected equipment, but on this unit.

AUDIO OUT

- **ON**: When audio output is from the HDMI AV OUT terminal. (Depending on the capabilities of the connected equipment, audio output may differ from the audio settings of the main unit.)
- **OFF**: When audio output is not from the HDMI AV OUT terminal. (The audio is output using the settings of the main unit.)

RGB RANGE

This works only when "COLOR SPACE (or COLOUR SPACE)" in Menu 5 (HDMI) is set to RGB (⇒ 19).

- **STANDARD**
- **ENHANCED:** When the black and white images are not distinct.

VIERA Link

- **ON:** The VIERA Link "HDAVI Control" function is available (⇒ 20).
- **OFF**

POWER OFF LINK

Select the desired power off link setting of this unit for VIERA Link operation (⇒ 20). (This works depending on the settings of the connected VIERA Link "HDAVI Control" compatible equipment.)

- **VIDEO/AUDIO:** When the TV is turned off, this unit will turn off automatically.
- **VIDEO:** When the TV is turned off, this unit will turn off except during the following conditions:
 - audio playback ([CD] [MP3] [WMA])
 - radio mode
 - "AUX" or "D-IN" mode (non-selected TV audio setting for VIERA Link)

TV AUDIO

Select the TV audio input to work with the VIERA Link operations (⇒ 20).

- **AUX**
- **DIGITAL IN**

OTHERS menu**REGISTRATION [DIVX]**

Display the unit's registration code.

- **SHOW CODE**
You need this registration code to purchase and play DivX Video-on-Demand (VOD) content (⇒ right).

JPEG TIME

Set the speed of the slideshow.

Factory preset: **3 SEC**

- 1 SEC to 15 SEC (in 1-unit steps)
- 15 SEC to 60 SEC (in 5-unit steps)
- 60 SEC to 180 SEC (in 30-unit steps)

FL DIMMER

Change the brightness of the unit's display and indicator.

• BRIGHT

- **DIM:** The display is dimmed.
(SURROUND OUTPUT indicator will turn off even if it is activated.)
- **AUTO:** The display is dimmed, but brightens when you perform some operations. (The SURROUND OUTPUT indicator will turn on if it is activated, when you perform some operations.)

EASY SETUP

- **SET (⇒ 10)**

DVD-VR/DATA

Select to play only DVD-VR or DATA format.

- **DVD-VR:** To play the video programs on DVD-RAM or DVD-R/-RW.
- **DATA:** To play the data files on DVD-RAM or DVD-R/-RW.

SCREEN DIMMER

This is to prevent burn marks on the TV screen.

- **OFF**
- **WAIT 5 MIN:** If there is no operation for 5 minutes, the picture turns gray. The TV screen would resume when you perform some operations. (This does not work during video playback.)

DEFAULTS

This returns all values in the MAIN menu to the default settings.

- **RESET**
The password screen is shown if "RATINGS" (⇒ 24) is set. Please enter the same password, then turn the unit off and on again.

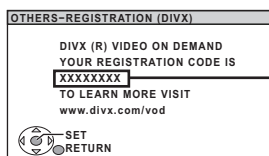
DivX information

About DivX VOD contents

This DivX® Certified device must be registered in order to play DivX Video-on-Demand (VOD) content. First generate the DivX VOD registration code for your device and submit it during the registration process. [Important: DivX VOD content is protected by a DivX DRM (Digital Rights Management) system that restricts playback to registered DivX Certified devices. If you try to play DivX VOD content not authorized for your device, the message "AUTHORIZATION ERROR" will be displayed and your content will not play.] Learn more at www.divx.com/vod.

Display the unit's registration code

(⇒ above, "REGISTRATION" in OTHERS menu)



8 alphanumeric characters

- We recommend that you make a note of this code for future reference.
- After playing DivX VOD content for the first time, another registration code is then displayed in "REGISTRATION (DIVX)". Do not use this registration code to purchase DivX VOD content. If you use this code to purchase DivX VOD content, and then play the content on this unit, you will no longer be able to play any content that you purchased using the previous code.

Regarding DivX content that can only be played a set number of times

Some DivX VOD content can only be played a set number of times. When you play this content, the remaining number of plays is displayed. You cannot play this content when the number of remaining plays is zero. ("RENTAL EXPIRED" is displayed.)

When playing this content

- The number of remaining plays is reduced by one if
 - you press [⏮] or [SETUP].
 - you press [■] STOP.
 - you press [◀◀, ▶▶] SKIP or [◀◀, ▶▶] SEARCH etc. and arrive at another content.

Resume function (⇒ 15, Stop) does not work.

Safety precautions

Placement

Set the unit up on an even surface away from direct sunlight, high temperatures, high humidity, and excessive vibration. These conditions can damage the cabinet and other components, thereby shortening the unit's service life.

Do not place heavy items on the unit.

Voltage

Do not use high voltage power sources. This can overload the unit and cause a fire.

Do not use a DC power source. Check the source carefully when setting the unit up on a ship or other places where DC is used.

AC mains lead protection

Ensure the AC mains lead is connected correctly and not damaged. Poor connection and lead damage can cause fire or electric shock. Do not pull, bend, or place heavy items on the lead.

Grasp the plug firmly when unplugging the lead. Pulling the AC mains lead can cause electric shock.

Do not handle the plug with wet hands. This can cause electric shock.

Foreign matter

Do not let metal objects fall inside the unit. This can cause electric shock or malfunction.

Do not let liquids get into the unit. This can cause electric shock or malfunction. If this occurs, immediately disconnect the unit from the power supply and contact your dealer.

Do not spray insecticides onto or into the unit. They contain flammable gases which can ignite if sprayed into the unit.

Service

Do not attempt to repair this unit by yourself. If sound is interrupted, indicators fail to light, smoke appears, or any other problem that is not covered in these instructions occurs, disconnect the AC mains lead and contact your dealer or an authorized service center. Electric shock or damage to the unit can occur if the unit is repaired, disassembled or reconstructed by unqualified persons.

Extend operating life by disconnecting the unit from the power source if it is not to be used for a long time.

Glossary

Decoder

A decoder restores the coded audio signals on DVDs to normal. This is called decoding.

DivX

DivX is a popular media technology created by DivX, Inc. DivX media files contain highly compressed video with high visual quality that maintains a relatively small file size.

Dolby Digital

This is a method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2-channel) audio, these signals can also be 5.1-channel sound.

DTS (Digital Theater Systems)

This surround system is used in many movie theaters around the world. There is good separation between the channels, so realistic sound effects are possible.

Dynamic range

Dynamic range is the difference between the lowest level of sound that can be heard above the noise of the equipment and the highest level of sound before distortion occurs.

Film and video

DVD-Videos are recorded using either film or video. This unit can determine which type has been used, then uses the most suitable method of progressive output.

Film: Recorded at 25 frames per second (PAL discs) or 24 frames per second (NTSC discs). (NTSC discs recorded at 30 frames per second as well).

Generally appropriate for motion picture films.

Video: Recorded at 25 frames/50 fields per second (PAL discs) or 30 frames/60 fields per second (NTSC discs). Generally appropriate for TV drama programs or animation.

Frame still and field still

Frames are the still pictures that go together to make a moving picture. There are about 30 frames shown each second.

One frame is made up of two fields. A regular TV shows these fields one after the other to create frames.

A still is shown when you pause a moving picture. A frame still is made up of two alternating fields, so the picture may appear blurred, but overall quality is high.

A field still is not blurred, but it has only half the information of a frame still so picture quality is lower.

HDMI (High-Definition Multimedia Interface)

HDMI is a next-generation digital interface for consumer electronic products. Unlike conventional connections, it transmits uncompressed digital video and audio signals on a single cable. This unit supports high-definition video output (720p, 1080i, 1080p) from the HDMI AV OUT terminal. To enjoy high-definition video, a high-definition compatible TV is required.

I/P/B

MPEG 2, the video compression standard adopted for use with DVD-Video, codes frames using these 3 picture types.

I: Intra coded picture

This picture has the best quality and is the best to use when adjusting the picture.

P: Predictive coded picture

This picture is calculated based on past I- or P-pictures.

B: Bidirectionally-predictive coded picture

This picture is calculated by comparing past and future I- and P-pictures so it has the lowest volume of information.

JPEG (Joint Photographic Experts Group)

This is a system used for compressing/decoding colour still pictures. The benefit of JPEG is less deterioration in picture quality considering the degree of compression.

Linear PCM (pulse code modulation)

These are uncompressed digital signals, similar to those found on CDs.

MP3 (MPEG Audio Layer 3)

An audio compression method that compresses audio to approximately one tenth of its size without any considerable loss of audio quality.

MPEG4

A compression system for use on mobile devices or a network, that allows highly efficient recording at a low bit rate.

Playback control (PBC)

If a Video CD has playback control, you can select scenes and information with menus.

Progressive/Interlaced

The PAL video signal standard has 576 interlaced (i) scan lines, whereas progressive scanning, called 576p, uses twice the number of scan lines. For the NTSC standard, these are called 480i and 480p respectively.

Using progressive output, you can enjoy the high-resolution video recorded on media such as DVD-Video.

Your TV must be compatible to enjoy progressive video.

Sampling frequency

Sampling is the process of converting the heights of sound wave (analog signal) samples taken at set periods into digits (digital encoding).

Sampling frequency is the number of samples taken per second, so larger numbers mean more faithful reproduction of the original sound.

WMA

WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.

Discs that can be played

Commercial discs

Disc	Logo	Indicated in these instructions by	Remarks
DVD-Video		DVD-V	High quality movie and music discs
Video CD		VCD	Music discs with video Including SVCD (Conforming to IEC62107)
CD		CD	Music discs

Recorded discs (○: Playable, —: Not playable)

Disc	Logo	Recorded on a DVD video recorder, etc.		Recorded on a personal computer, etc.					Finalizing ^{※6}
		DVD-VR ^{※2}	DVD-V ^{※4}	WMA	MP3	JPEG	MPEG4	DivX	
DVD-RAM		○	—	—	○	○	○	○	Not necessary
DVD-R/RW		○	○	—	○	○	○	○	Necessary
DVD-R DL		○ ^{※3}	○	—	—	—	—	○	Necessary
+R/+RW	—	—	(○) ^{※5}	—	—	—	—	—	Necessary
+R DL	—	—	(○) ^{※5}	—	—	—	—	—	Necessary
CD-R/RW ^{※1}	—	—	—	○	○	○	○	○	Necessary ^{※7}

• It may not be possible to play all the above-mentioned discs in some cases due to the type of disc, the condition of the recording, the recording method, or how the files were created (⇒ 29, Tips for making data discs).

※1 This unit can play CD-R/RW recorded with CD-DA or Video CD format.

※2 Discs recorded on DVD recorders or DVD video cameras, etc. using Version 1.1 of the Video Recording Format (a unified video recording standard).

※3 Discs recorded on DVD recorders or DVD video cameras using Version 1.2 of the Video Recording Format (a unified video recording standard).

※4 Discs recorded on DVD recorders or DVD video cameras using DVD-Video Format.

※5 Recorded using a format different from DVD-Video Format, therefore some functions cannot be used.

※6 A process that allows play on compatible equipment. To play a disc that is indicated as "Necessary", the disc must first be finalized on the device it was recorded on.

※7 Closing the session will also work.

Note about using a DualDisc

The digital audio content side of a DualDisc does not meet the technical specifications of the Compact Disc Digital Audio (CD-DA) format so playback may not be possible.

Discs that cannot be played

Blu-ray, HD DVD, AVCHD discs, DVD-RW version 1.0, DVD-Audio, DVD-ROM, CD-ROM, CDV, CD-G, SACD, Photo CD, DVD-RAM that cannot be removed from their cartridge, 2.6 GB and 5.2 GB DVD-RAM, and "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

Video systems

- This unit can play PAL and NTSC, but your TV must match the system used on the disc.
- PAL discs cannot be correctly viewed on an NTSC TV.
- This unit can convert NTSC signals to PAL 60 for viewing on a PAL TV (⇒ 25, "NTSC DISC OUT" in VIDEO menu).

Disc handling precautions

- Do not attach labels or stickers to discs. This may cause disc warping, rendering it unusable.
- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, liquids which prevent static electricity, or any other solvent.
- Do not use scratch-proof protectors or covers.
- 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.

Tips for making data discs

Format	Disc	Extension	Reference
WMA	CD-R/RW	“.WMA” “.wma”	- Compatible compression rate: between 48 kbps and 320 kbps - You cannot play WMA files that are copy-protected. - This unit does not support Multiple Bit Rate (MBR: an encoding process for audio content that produces an audio file encoded at several different bit rates).
MP3	DVD-RAM DVD-R/RW CD-R/RW	“.MP3” “.mp3”	- This unit does not support ID3 tags. - Sampling frequency and compression rate: - DVD-RAM, DVD-R/RW: 11.02, 12, 22.05, 24 kHz (8 to 160 kbps), 44.1 and 48 kHz (32 to 320 kbps) - CD-R/RW: 8, 11.02, 12, 16, 22.05, 24 kHz (8 to 160 kbps), 32, 44.1 and 48 kHz (32 to 320 kbps)
JPEG	DVD-RAM DVD-R/RW CD-R/RW	“.JPG” “.jpg” “.JPEG” “.jpeg”	- JPEG files taken on a digital camera that conform to DCF Standard (Design rule for Camera File system) Version 1.0 are displayed. - Files that have been altered, edited or saved with computer picture editing software may not be displayed. - This unit cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (e.g. TIFF), or play pictures with attached audio.
MPEG4	DVD-RAM DVD-R/RW CD-R/RW	“.ASF” “.asf”	- You can play MPEG4 data [conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system] recorded with Panasonic SD multi cameras or DVD recorders with this unit. - The recording date may differ from that of the actual date.
DivX	DVD-RAM DVD-R/RW CD-R/RW	“.DIVX” “.divx” “.AVI” “.avi”	- Plays all versions of DivX® video (including DivX®6) [DivX video system/MP3, Dolby Digital or MPEG audio system] with standard playback of DivX® media files. Functions added with DivX Ultra are not supported. - DivX files greater than 2 GB or have no index may not be played properly on this unit. - This unit supports all resolutions up to maximum of 720×480 (NTSC)/720×576 (PAL). - You can select up to 8 types of audio and subtitles on this unit.

- There may be differences in the display order on the menu screen and computer screen.
- This unit cannot play files recorded using packet write.

DVD-RAM

- Discs must conform to UDF 2.0.

DVD-R/RW

- Discs must conform to UDF bridge (UDF 1.02/ISO9660).
- This unit does not support multi-session. Only the default session is played.

CD-R/RW

- Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
- This unit supports multi-session but if there are many sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.

Maintenance

To clean discs

Wipe with a damp cloth and then wipe dry.



Clean this unit with a soft, dry cloth

- 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.

Do not use commercially available lens cleaners as they may cause malfunction. Cleaning of the lens is generally not necessary although this depends on the operating environment.

Before moving the unit, ensure the disc tray is empty. Failure to do so will risk severely damaging the disc and the unit.

Troubleshooting guide

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.

Power

No power.

Insert the AC mains lead securely. (⇒ 9)

The unit is automatically switched to standby mode.

The Sleep timer was working and had reached the set time limit. (⇒ 34)

Unit displays

The display is dark.

Select "BRIGHT" in "FL DIMMER" in the OTHERS menu. (⇒ 26)

"NO PLAY"

- You inserted a disc the unit cannot play; insert one it can. (⇒ 28)
- You inserted a blank disc.
- You inserted a disc that has not been finalized.

"NO DISC"

- You have not inserted a disc; insert one.
- You have not inserted the disc correctly; insert it correctly. (⇒ 14)

"OVER CURRENT ERROR"

The USB device is drawing too much power. Switch to DVD/CD mode, remove the USB and turn the unit off.

"F61"

Check and correct the speaker cable connections. If this does not fix the problem, consult the dealer. (⇒ 7)

"F76"

There is a power supply problem. Consult the dealer.

"DVD U11"

Disc may be dirty. Wipe it clean. (⇒ 29)

"ERROR"

Incorrect operation performed. Read the instructions and try again.

"DVD H□□"

"DVD F□□□"

□ stands for a number.

- Trouble may have occurred. The numbers following "H" and "F" depend on the status of the unit. Turn the unit off and then back on. Alternatively, turn the unit off, disconnect the AC mains lead, and then reconnect it.
- If the service numbers fail to clear, note the service number and contact a qualified service person.

"U70□"

□ stands for a number. (The actual number following "U70" will depend on the state of the main unit.)

- The HDMI connection acts unusually.
 - The connected equipment is not HDMI-compatible.
 - Please use HDMI cables that have the HDMI logo (as shown on the cover).
 - The HDMI cable is too long.
 - The HDMI cable is damaged.

"REMOTE 1" or "REMOTE 2"

Match the modes on the main unit and remote control. Depending on the number being displayed ("1" or "2"), press and hold [OK] and the corresponding numbered button ([1] or [2]) for at least 2 seconds. (⇒ 34)

General operation

No response when any buttons are pressed.

- This unit cannot play discs other than the ones listed in these operating instructions. (⇒ 28)
- The unit may not be operating properly due to lightning, static electricity or some other external factor. Turn the unit off and then back on. Alternatively, turn the unit off, disconnect the AC mains lead, and then reconnect it.
- Condensation has formed. Wait 1 to 2 hours for it to evaporate.

No response when remote control buttons are pressed.

- Check that the batteries are installed correctly. (⇒ 9)
- The batteries are depleted. Replace them with new ones. (⇒ 9)
- Aim the remote control at the remote control signal sensor and operate. (⇒ 35)

Other products respond to the remote control.

Change the remote control operating mode. (⇒ 34)

No picture or sound.

- Check the video or speaker connection. (⇒ 7, 8)
- Check the power or input setting of the connected equipment and the main unit.
- Check that the disc has something recorded on it.

You have forgotten your ratings password.

Reset all the settings to Factory Preset.

While stopped and "DVD/CD" is the source, press and hold [■] (Stop) on the main unit and [≥10] on the remote control until "INITIALIZED" disappears from the TV. Turn the unit off and on again.

All settings will return to the default values.

(This does not work during program and random modes, or when setup menu or START menu is displayed.)

Some characters are not displayed correctly.

Characters other than English alphabet and Arabic numerals may not be displayed correctly.

The VIERA Link "HDAVI Control" function does not respond.

Depending on the condition of this unit or the connected equipment, it may be necessary to repeat the same operation so that the function can work correctly. (⇒ 20)

The setting you made in "TV ASPECT" (⇒ 25, VIDEO menu) or "LANGUAGE" (⇒ 25, DISPLAY menu) does not work.

The settings for "TV ASPECT"^{#1} and "LANGUAGE"^{#2} will automatically follow to the information from the TV. (⇒ 10, Easy setup settings)

^{#1} When using VIERA Link "HDAVI Control" with "HDAVI Control 3 or later" compatible TV

^{#2} When using VIERA Link "HDAVI Control" with "HDAVI Control 2 or later" compatible TV

Disc operation

It takes time before play starts.

- Play may take time to begin when an MP3 track has still picture data. Even after the track starts, the correct play time will not be displayed. This is normal. [MP3]
- This is normal on DivX video. [DivX]

A menu screen appears during skip or search. [VCD]

This is normal for Video CDs.

Playback control menu does not appear.

[VCD] with playback control

Press [■ STOP] twice and then press [▶ PLAY].

Program and Random play do not work. [DVD-V]

These functions do not work with some DVD-Videos.

Play does not start.

- This unit may not play WMA and MPEG4 that contains still picture data.
- If playing DivX VOD content, refer to the homepage where you purchased the DivX VOD content. (Example: www.divx.com/vod) [DivX]
- If a disc contains CD-DA and other formats, proper playback may not be possible.

No subtitles.

- Display the subtitles. ("SUBTITLE" in Menu 1) (⇒ 18)
- Subtitles may not be displayed depending on the disc. **DivX**

Point B is automatically set.

The end of an item becomes point B when it is reached.

The Setup menu cannot be accessed.

- Select "DVD/CD" as the source.
- Cancel Program and Random play. (⇒ 16)

Sound**Sound is distorted.**

- Noise may occur when playing WMA.
- When using the HDMI output, audio may not be output from other terminals.

Effects do not work.

Some audio effects do not work or have less effect with some discs.

Humming is heard during play.

An AC mains lead or fluorescent light is near the main unit. Keep other appliances and cables away from the main unit.

No sound.

- There may be a slight pause in sound when you change the play speed.
- Audio may not be output due to how files were created. **DivX**
- Audio may not be heard when more than 4 devices are connected with HDMI cables. Reduce the number of connected devices.
- When using the HDMI connection, ensure that "AUDIO OUT" in the HDMI menu is set to "ON". (⇒ 25)
- If the input source is bitstream, set the sound setting to PCM on the external equipment.

No sound from the TV.

Confirm the audio connection. Press [EXT-IN] to select the corresponding source. (⇒ 8, 13)

No surround sound.

Press [SURROUND] to select "MULTI-CH". (⇒ 13)

Picture**The picture on the TV is not displayed correctly or disappears.**

- The unit and TV are using different video systems.
Southeast Asia, Hong Kong and Thailand Use a multi-system or NTSC TV.
Others Use a multi-system or PAL TV.
- The system used on the disc does not match your TV.
 - PAL discs cannot be correctly viewed on an NTSC TV.
 - This unit can convert NTSC signals to PAL 60 for viewing on a PAL TV ("NTSC DISC OUT" in VIDEO menu). (⇒ 25)
- Ensure that the unit is connected directly to the TV, and is not connected through a VCR. (⇒ 8)
- Mobile telephone chargers can cause some disturbance.
- If you are using an indoor TV antenna, change to an outdoor antenna.
- The TV antenna wire is too close to the unit. Move it away from the unit.
- Change "SOURCE SELECT" in Menu 2. **DivX** (⇒ 19)
- Picture may not be seen when more than 4 devices are connected with HDMI cables. Reduce the number of connected devices.
- When using the COMPONENT VIDEO OUT terminal, ensure that progressive output is not selected when the connected TV is not progressive compatible. Press and hold [CANCEL] until "PRG" disappears from the main unit display and the picture is displayed correctly.
- When using the HDMI AV OUT terminal, ensure that an incompatible video output with the connected TV is not selected. Press and hold [CANCEL] until the picture is displayed correctly. (The output will return to "480p" or "576p".) (⇒ 19)
- Video images converted to 1920×1080 resolution may look different from the true native 1080p full-HD sources. This is not malfunction of the main unit.

Picture stops. **DivX**

Picture may stop if the DivX files are greater than 2 GB.

Picture size does not fit the screen.

- Change "TV ASPECT" in the VIDEO menu. (⇒ 25)
- Use the TV to change the aspect.
- Change the zoom setting. ("ZOOM" in Menu 2) (⇒ 19)

Menu is not displayed correctly.

Restore the zoom ratio to "NORMAL". ("ZOOM" in Menu 2) (⇒ 19)

Auto zoom function does not work well.

- Turn off TV's zoom function.
- Zoom function may not work well, especially in dark scenes and may not work depending on the type of disc.

When playing PAL disc, picture distorted.

Set "TRANSFER MODE" in Menu 2 to "AUTO". (⇒ 19)

HDMI or progressive video**There is ghosting when HDMI or progressive output is on.**

- This problem is caused by the editing method or material used on DVD-Video, but should be corrected if you use interlaced output. When using the HDMI AV OUT terminal, set "VIDEO FORMAT" in Menu 5 to "480i" or "576i". Or, disable the HDMI AV OUT connection and use other video connections. (⇒ 8, 19)
- When using the COMPONENT VIDEO OUT terminal, set "VIDEO OUT (I/P)" in VIDEO menu to "INTERLACE". (Alternatively, press and hold [CANCEL] until "PRG" disappears from the main unit display.) (⇒ 25)

Pictures not in progressive output.

- Select "PROGRESSIVE" in "VIDEO OUT (I/P)" in VIDEO menu. (⇒ 25)
- The unit's VIDEO OUT terminal outputs the interlaced signal even if "PRG" is displayed.

Radio**Distorted sound or noise is heard.****"ST" flickers or does not light.**

- Adjust the position of the FM antenna.
- Use an outdoor antenna. (⇒ 7)

A beat sound is heard.

Turn the TV off or move it away from the unit.

USB**The USB drive or its contents cannot be read.**

- The USB drive format or its contents is/are not compatible with the system. (⇒ 22)
- The USB host function of this product may not work with some USB devices.
- USB devices with storage capacity of more than 32 GB may not work in some instances.

Slow operation of the USB device.

Large file size or high memory USB device takes longer time to read and display on the TV.

TV displays

"⊘"

The operation is prohibited by the unit or disc.

"THIS DISC CANNOT BE PLAYED IN YOUR REGION."

Only DVD-Video discs that include or have the same region number as the one on the rear panel of this unit can be played. (⇒ Cover page)

"AUTHORIZATION ERROR" **DivX**

You are trying to play the DivX VOD content that was purchased with a different registration code. You cannot play the content on this unit. (⇒ 26)

"RENTAL EXPIRED" **DivX**

The DivX VOD content has zero remaining plays. You cannot play it. (⇒ 26)

Specifications

AMPLIFIER SECTION

RMS Output Power: Dolby Digital Mode

Front Ch	55 W per channel (5 Ω), 1 kHz, 10 % THD
Surround Ch	55 W per channel (5 Ω), 1 kHz, 10 % THD
Center Ch	55 W per channel (5 Ω), 1 kHz, 10 % THD
Subwoofer Ch	55 W per channel (5 Ω), 100 Hz, 10 % THD

Total RMS Dolby Digital mode power 330 W

Except **Australia and N.Z.** PMPO output power 9300 W

DIN Output Power: Dolby Digital Mode

Front Ch	30 W per channel (5 Ω), 1 kHz, 1 % THD
Surround Ch	30 W per channel (5 Ω), 1 kHz, 1 % THD
Center Ch	30 W per channel (5 Ω), 1 kHz, 1 % THD
Subwoofer Ch	30 W per channel (5 Ω), 100 Hz, 1 % THD

Total DIN Dolby Digital mode power 180 W

FM TUNER, TERMINALS 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)

Digital audio input

Optical digital input	Optical terminal
Sampling frequency	32 kHz, 44.1 kHz, 48 kHz

USB Port

USB standard	USB 2.0 full speed
Media file format support	MP3 (*.mp3) WMA (*.wma) JPEG (*.jpg) (*.jpeg) DivX (*.divx, *.avi) MPEG4 (*.asf)
USB device file system	FAT12, FAT16, FAT32
USB Port power	Max. 500 mA
Bit rate	Up to 4 Mbps (DivX)

Except **Australia and N.Z.**

Mic jack

Sensitivity	0.7 mV, 1.2 kΩ
Terminal	Mono, 6.3 mm jack (2 system)

Music Port (Front)

Sensitivity	100 mV, 3.5 kΩ
Terminal	Stereo, 3.5 mm jack

DISC SECTION

Discs played (8 cm or 12 cm)

- (1) DVD (DVD-Video, DivX[®]5.6)
 - (2) DVD-RAM (DVD-VR, MP3[®]2.5, JPEG[®]4.5, MPEG4[®]5.7, DivX[®]5.6)
 - (3) DVD-R (DVD-Video, DVD-VR, MP3[®]2.5, JPEG[®]4.5, MPEG4[®]5.7, DivX[®]5.6)
 - (4) DVD-R DL (DVD-Video, DVD-VR, DivX[®]5.6)
 - (5) DVD-RW (DVD-Video, DVD-VR, MP3[®]2.5, JPEG[®]4.5, MPEG4[®]5.7, DivX[®]5.6)
 - (6) +R/+RW (Video)
 - (7) +R DL (Video)
 - (8) CD, CD-R/RW (CD-DA, Video CD, SVCD[®]1, MP3[®]2.5, WMA[®]3.5, JPEG[®]4.5, MPEG4[®]5.7, DivX[®]5.6)
- [®]1 Conforming to IEC62107
- [®]2 MPEG-1 Layer 3, MPEG-2 Layer 3
- [®]3 Windows Media Audio Ver.9.0 L3
- Not compatible with Multiple Bit Rate (MBR)
- [®]4 Exif Ver 2.1 JPEG Baseline files
- Picture resolution: between 160×120 and 6144×4096 pixels (Sub sampling is 4:0:0, 4:2:0, 4:2:2 or 4:4:4). Extremely long and narrow pictures may not be displayed.
- [®]5 The total combined maximum number of recognizable audio, picture and video contents and groups: 4000 audio, picture and video contents and 255 groups. (Excluding Root folder)
- [®]6 Plays all versions of DivX[®] video (including DivX[®]6) with standard playback of DivX[®] media files. Certified to the DivX Home Theater Profile.
- [®]7 MPEG4 data recorded with Panasonic SD multi cameras or DVD video recorders
- Conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system

Pick up

Wavelength (DVD/CD)	655/785 nm
Laser power (DVD/CD)	CLASS 1/CLASS 1M

Audio output (Disc)

Number of channels	5.1 ch (FL, FR, C, SL, SR, SW)
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VIDEO SECTION

Video system PAL625/50, PAL525/60, NTSC

Composite video output

Output level	1 Vp-p (75 Ω)
Terminal	Pin jack (1 system)

Component video output

Y output level	1 Vp-p (75 Ω)
P _B output level	0.7 Vp-p (75 Ω)
P _R output level	0.7 Vp-p (75 Ω)
Terminal	Pin jack (Y: green, P _B : blue, P _R : red) (1 system)

HDMI AV output

Terminal	19-pin type A connector
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HDAVI Control This unit supports "HDAVI Control 4" function.

SPEAKER SECTION

PT170 Front speakers SB-HF170

Type	1 way, 1 speaker system (Bass reflex)
Speaker unit(s)	Impedance 5 Ω
Full range	6.5 cm Cone type
Input power (IEC)	55 W [®] (Max)
Output sound pressure	80 dB/W (1.0 m)
Frequency range	96 Hz to 25 kHz (−16 dB) 120 Hz to 22 kHz (−10 dB)
Dimensions (W×H×D)	92 mm×128 mm×81 mm
Mass	0.47 kg

PT170 Surround speakers SB-HS170

Type	1 way, 1 speaker system (Bass reflex)
Speaker unit(s)	Impedance 5 Ω
Full range	6.5 cm Cone type
Input power (IEC)	55 W [®] (Max)
Output sound pressure	80 dB/W (1.0 m)
Frequency range	96 Hz to 25 kHz (−16 dB) 120 Hz to 22 kHz (−10 dB)
Dimensions (W×H×D)	92 mm×128 mm×81 mm
Mass	0.47 kg

PT170 Center speaker SB-HC170

Type	1 way, 1 speaker system (Bass reflex)
Speaker unit(s)	Impedance 5 Ω
Full range	6.5 cm Cone type
Input power (IEC)	55 W [®] (Max)
Output sound pressure	80 dB/W (1.0 m)
Frequency range	91 Hz to 25 kHz (−16 dB) 120 Hz to 22 kHz (−10 dB)
Dimensions (W×H×D)	125 mm×94.5 mm×81 mm
Mass	0.7 kg

PT175 Front speakers SB-HF175

Type	1 way, 1 speaker system (Bass reflex)
Speaker unit(s)	Impedance 5 Ω
Full range	6.5 cm Cone type
Input power (IEC)	55 W [®] (Max)
Output sound pressure	80 dB/W (1.0 m)
Frequency range	82 Hz to 25 kHz (−16 dB) 90 Hz to 22 kHz (−10 dB)
Dimensions (W×H×D)	252mm×1123 mm×235 mm
Mass	3.7 kg

PT175 Surround speakers SB-HS175

Type	1 way, 1 speaker system (Bass reflex)
Speaker unit(s)	Impedance 5 Ω
Full range	6.5 cm Cone type
Input power (IEC)	55 W [®] (Max)
Output sound pressure	80 dB/W (1.0 m)
Frequency range	96 Hz to 25 kHz (−16 dB) 120 Hz to 22 kHz (−10 dB)
Dimensions (W×H×D)	92mm×142 mm×95 mm
Mass	0.6 kg

PT175 Center speakers SB-HC175

Type	1 way, 1 speaker system (Bass reflex)
Speaker unit(s)	Impedance 5 Ω Full range 6.5 cm Cone type
Input power (IEC)	55 W ^{**} (Max)
Output sound pressure	80 dB/W (1.0 m)
Frequency range	91 Hz to 25 kHz (–16 dB) 120 Hz to 22 kHz (–10 dB)
Dimensions (W×H×D)	140mm×94 mm×95 mm
Mass	0.7 kg

Subwoofer SB-HW170

Type	1 way, 1 speaker system (Kelton type)
Speaker unit(s)	Impedance 5 Ω Woofer 12 cm Cone type
Input power (IEC)	55 W (Max)
Output sound pressure	80 dB/W (1.0 m)
Frequency range	30 Hz to 350 Hz (–16 dB) 39 Hz to 290 Hz (–10 dB)
Dimensions (W×H×D)	136 mm×339 mm×213 mm
Mass	2.8 kg

GENERAL**Power supply****Australia and N.Z.****Others**

AC 220 V to 240 V, 50 Hz
AC 110 V to 127 V / 220 V to 240 V, 50/60 Hz

Power consumption**Australia and N.Z.****Others**

Main unit 85 W
Main unit 90 W

Dimensions (W×H×D)

430 mm×63 mm×325 mm

Mass

Main unit 3.14 kg

Operating temperature range

0 °C to +40 °C

Operating humidity range

35 % to 80 % RH (no condensation)

Power consumption in standby mode

approx. 0.2 W

^{**} Rating with Low-cut filter equipped Amplifier**Note**

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

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U.S. Patent Nos. 6,836,549; 6,381,747; 7,050,698; 6,516,132; and 5,583,936.

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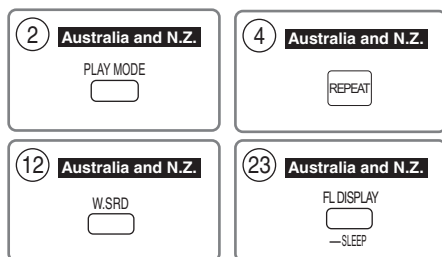
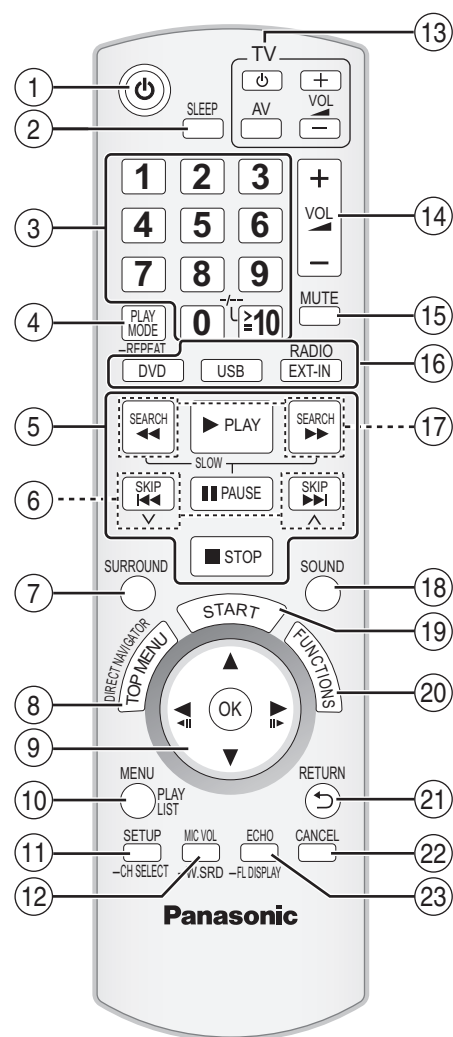
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Control reference guide



- ① Turn the main unit on/off (⇒ 10)
- ② **Australia and N.Z.**
Select the play mode (⇒ 16)
Others
Set the Sleep timer
Press [SLEEP].
SLEEP 30 → SLEEP 60 → SLEEP 90 → SLEEP 120
↑ OFF (Cancel) ↓
• To confirm the remaining time, press the button again.

- ③ Select channels and title numbers etc. / Enter numbers (⇒ 11, 15)

- ④ **Australia and N.Z.**
Set the repeat mode (⇒ 16)

- Others**
Select the play mode / Set the repeat mode (⇒ 16)

- ⑤ Basic operations for play (⇒ 14, 15)
- ⑥ Select preset radio stations (⇒ 11)
- ⑦ Select surround sound effects (⇒ 13)
- ⑧ Show a disc top menu or program list (⇒ 15, 17)
- ⑨ Select or confirm menu items / Frame-by-frame (⇒ 15)
- ⑩ Show a disc menu or play list (⇒ 15, 17)
- ⑪ Show setup menu or select speaker channel (⇒ 10, 13)

- ⑫ **Australia and N.Z.**
Turn Whisper-mode Surround on/off (⇒ 13)

- Others**
Adjust the Microphone volume / Turn Whisper-mode Surround on/off (⇒ 13, 21)

⑬ TV operations

Aim the remote control at the Panasonic TV and press the button.

[]: Turn the TV on/off

[AV]: Change the TV's video input mode

[+, -]: Adjust the TV volume

This may not work properly with some models.

- ⑭ Adjust the volume of the main unit

⑮ Mute the sound

- "MUTE" flashes on the main unit's display while the function is on.
- To cancel, press the button again or adjust the volume.
- Muting is cancelled when you switch the unit to standby.

⑯ Source select

[DVD]: Select disc as the source (⇒ 10)

[USB]: Select USB as the source (⇒ 22)

[RADIO], [EXT-IN]: Select FM tuner or external audio as the source (⇒ 11, 12)

FM → AUX* → D-IN* → MUSIC P.

* "(TV)" will appear beside "AUX" or "D-IN", indicating the TV audio setting for VIERA Link "HDAVI Control" (⇒ 20).

- ⑰ Select radio stations manually (⇒ 11)
- ⑱ Select sound mode (⇒ 13)
- ⑲ Show START menu (⇒ 12)
- ⑳ Show on-screen menu (⇒ 18)
- ㉑ Return to previous screen (⇒ 15)
- ㉒ Cancel (⇒ 16)
- ㉓ Switch information on the main unit's display (⇒ 15)

or

Set the Sleep timer

Press and hold [-SLEEP].

While the time is shown on the main unit's display, press [-SLEEP] repeatedly.

SLEEP 30 → SLEEP 60 → SLEEP 90 → SLEEP 120
↑ OFF (Cancel) ↓

- To confirm the remaining time, press and hold the button again.

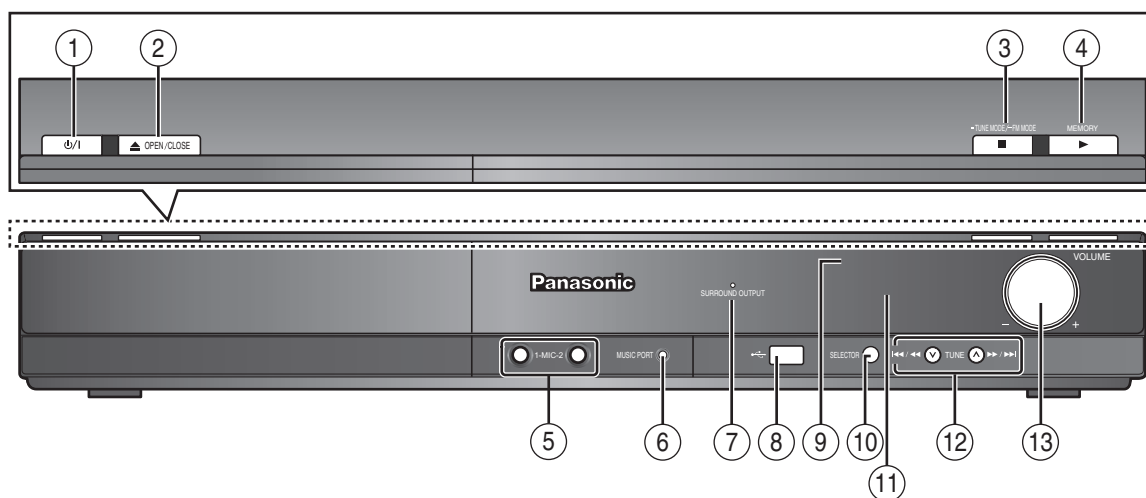
Avoiding interference with other Panasonic equipment

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 and hold [/▶▶] on the main unit and [2] on the remote control until the main unit's display shows "REMOTE 2".
- 2 Press and hold [OK] and [2] on the remote control for at least 2 seconds.

To change the mode back to "REMOTE 1", repeat both steps above by replacing [2] with [1].



① Standby/on switch (⏻/⏻)

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. (⇒ 14)

② Open/Close the disc tray (⇒ 14)

③ Stop playing / Select the tuning mode / Adjust the FM reception condition (⇒ 11, 14)

④ Play discs / Memorize the receiving radio stations (⇒ 11, 14)

⑤ **Except Australia and N.Z.**

Connect microphones (⇒ 21)

⑥ Connect external music device (⇒ 23)

⑦ The indicator lights when there is surround sound effect. (⇒ 13)

⑧ Connect USB device (⇒ 22)

⑨ Remote control signal sensor

⑩ Select the source

DVD/CD→USB→FM→AUX*→D-IN*→MUSIC P.

*“(TV)” will appear beside “AUX” or “D-IN”, indicating the TV audio setting for VIERA Link “HDAVI Control” (⇒ 20).

⑪ Display

⑫ Skip or slow-search play / Select the radio stations (⇒ 11, 14)

⑬ Adjust the volume of the main unit

Language code list

Abkhazian: 6566	Danish: 6865	Italian: 7384	Norwegian: 7879	Swedish: 8386
Afar: 6565	Dutch: 7876	Japanese: 7465	Oriya: 7982	Tagalog: 8476
Afrikaans: 6570	English: 6978	Javanese: 7487	Pashto, Pushto: 8083	Tajik: 8471
Albanian: 8381	Esperanto: 6979	Kannada: 7578	Persian: 7065	Tamil: 8465
Ameharic: 6577	Estonian: 6984	Kashmiri: 7583	Polish: 8076	Tatar: 8484
Arabic: 6582	Faroese: 7079	Kazakh: 7575	Portuguese: 8084	Telugu: 8469
Armenian: 7289	Fiji: 7074	Kirghiz: 7589	Punjabi: 8065	Thai: 8472
Assamese: 6583	Finnish: 7073	Korean: 7579	Quechua: 8185	Tibetan: 6679
Aymara: 6589	French: 7082	Kurdish: 7585	Rhaeto-Romance: 8277	Tigrinya: 8473
Azerbaijani: 6590	Frisian: 7089	Laotian: 7679	Romanian: 8279	Tonga: 8479
Bashkir: 6665	Galician: 7176	Latin: 7665	Russian: 8285	Turkish: 8482
Basque: 6985	Georgian: 7565	Latvian, Lettish: 7686	Samoan: 8377	Turkmen: 8475
Bengali, Bangla: 6678	German: 6869	Lingala: 7678	Sanskrit: 8365	Twi: 8487
Bhutani: 6890	Greek: 6976	Lithuanian: 7684	Scots Gaelic: 7168	Ukrainian: 8575
Bihari: 6672	Greenlandic: 7576	Macedonian: 7775	Serbian: 8382	Urdu: 8582
Breton: 6682	Guarani: 7178	Malagasy: 7771	Serbo-Croatian: 8372	Uzbek: 8590
Bulgarian: 6671	Gujarati: 7185	Malay: 7783	Shona: 8378	Vietnamese: 8673
Burmese: 7789	Hausa: 7265	Malayalam: 7776	Sindhi: 8368	Volapük: 8679
Byelorussian: 6669	Hebrew: 7387	Maltese: 7784	Singhalese: 8373	Welsh: 6789
Cambodian: 7577	Hindi: 7273	Maori: 7773	Slovak: 8375	Wolof: 8779
Catalan: 6765	Hungarian: 7285	Marathi: 7782	Slovenian: 8376	Xhosa: 8872
Chinese: 9072	Icelandic: 7383	Moldavian: 7779	Somali: 8379	Yiddish: 7473
Corsican: 6779	Indonesian: 7378	Mongolian: 7778	Spanish: 6983	Yoruba: 8979
Croatian: 7282	Interlingua: 7365	Nauru: 7865	Sundanese: 8385	Zulu: 9085
Czech: 6783	Irish: 7165	Nepali: 7869	Swahili: 8387	

