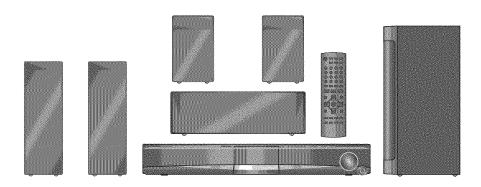
Panasonic

Operating Instructions

DVD Home Theater Sound System

Model No. SC-PT660

SC-PT754



The illustration shows SC-PT660.

Region number

The player plays DVD-Video marked with labels containing the region number "1" or "ALL".

Example:



















As an ENERGY STAR® Partner.®
Panasonic has determined that
this product meets the ENERGY STAR®
guidelines for energy efficiency.

* For Canada only: The word "Participant" is used in place of the word "Partner".

26

Sound enhancement options

Surround Enhancer, Dolby Pro Logic II and more.

28

iPod connectivity

Enjoy iPod music through the speakers, view iPod photos or videos on the TV.

5

Wireless-ready surround speakers

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

Please keep this manual for future reference.

If you have any questions contact

In the U.S.A.: 1-800-211-PANA (7262)

In Canada: 1-800-561-5505





Dear customer

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

- These operating instructions are applicable to models SC-PT660 and SC-PT754.
- 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.

Indicates features applicable to:

PT660 : SC-PT-660 o	nly PT754 : S	PT754 : SC-PT-754 only		
System	SC-PT660	SC-PT754		
Main unit	SA-PT660	SA-PT754		
Front speakers	SB-HF660	SB-HF760		
Center speaker	SB-HC660	SB-HC760		
Surround speakers	SB-HS660	SB-HS760		
Subwoofer	SR-HW560	SR-HW560		

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

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

THE FOLLOWING APPLIES ONLY IN THE U.S.A.

FCC Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party:

Panasonic Corporation of North America One Panasonic Way Secaucus, NJ 07094

Support Contact:

Panasonic Consumer Electronics Company

Telephone No.: 1-800-211-7262

IMPORTANT SAFETY INSTRUCTIONS

Read these operating instructions carefully before using the unit. Follow the safety instructions on the unit and the applicable safety instructions listed below. Keep these operating instructions handy for future reference.

- 1) Read these instructions.
- 2) Keep these instructions.
- Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
 -) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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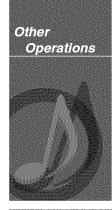




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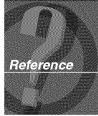
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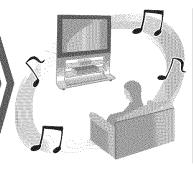


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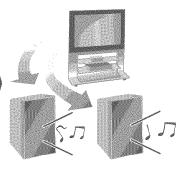
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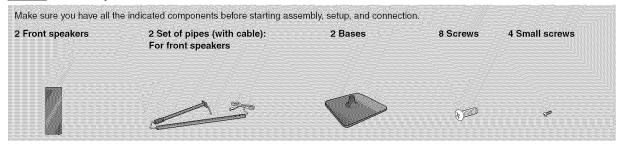


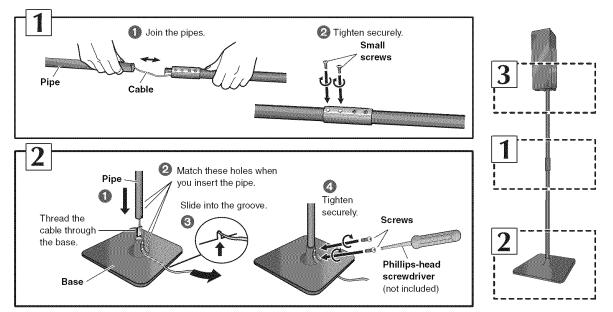
Assembling the speakers

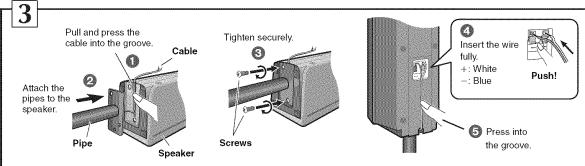
Preparation

- To prevent damage or scratches, lay down a soft cloth and perform assembly on it.
- For assembly, use a Phillips-head screwdriver.
- For optional wall mount, refer to page 6.

PT754 : Front speakers





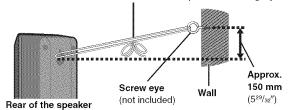


■ Preventing the speakers from falling

- 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. PT754 Front speakers

String (not included)
Thread from the wall to the speaker and tie tightly.





Positioning

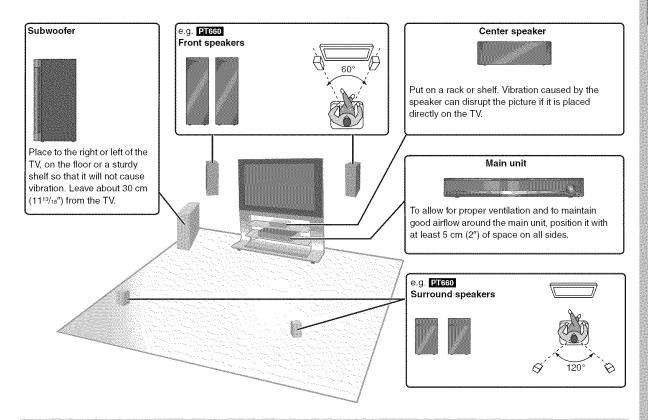
How you set up your speakers can affect the bass and the sound field. Note the following points:

- 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 6.

Keep your speakers at least 10 mm (13/32") 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.





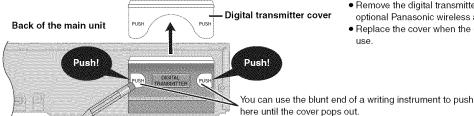
Set your surround sound free! Optional Panasonic wireless accessory (example: SH-FX67)

You can enjoy surround speaker sound wirelessly when you use the optional Panasonic wireless accessory (example: SH-FX67). For details, please refer to the operating instructions for the optional Panasonic wireless accessory.



Expand your listening options with a multi-room wireless sound system. Optional Panasonic wireless accessory SH-FX85

You can enjoy a multi-room wireless sound system when you use the optional Panasonic wireless accessory SH-FX85. For details, please refer to the operating instructions for the optional Panasonic wireless accessory.



- Remove the digital transmitter cover before installing any optional Panasonic wireless accessory.
- Replace the cover when the digital transmitter is not in

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, 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 coloring 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 demagnetizing 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. Center speaker





 Do not stand on the base. Be cautious when children are near. e.g. PT754 Front speaker



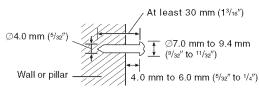
Speaker installation options

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 (22 lbs) 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.

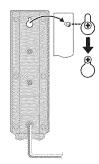


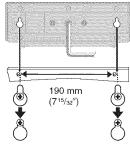
② Fit the speaker securely onto the screw(s) with the hole(s).

e.g. PT660

Front speaker







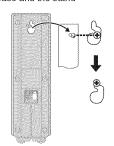
e.g. PT660 Surround speaker



e.g. PT754

Front speaker

Attach to a wall without the base and the stand





In this position, the speaker will likely fall if moved to the left or right.



Move the speaker so that the screw is in this position.

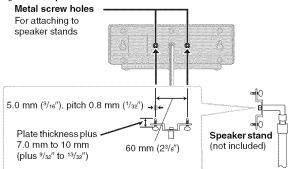
■ Fitting speaker stands (not included)

(Except subwoofer)

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 (22 lbs).
- The stands must be stable even if the speakers are in a high position.

e.g. Center speaker

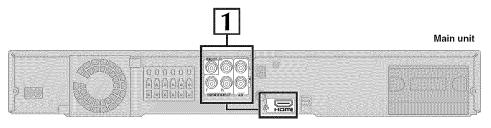


step 3

Cable connections

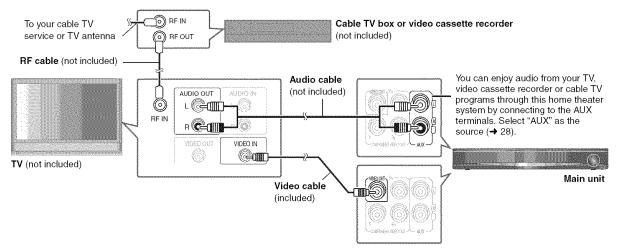
Turn off all equipment before connection and read the appropriate operating instructions.

Do not connect the AC power supply or cord until all other connections are complete.



1 Audio and video connections

Basic setup example



Other video connections for improved picture quality

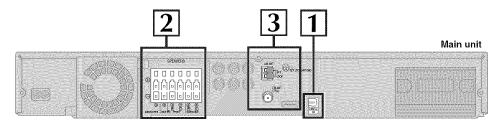
TV terminal	Cable required (not included)	Main unit terminal	Features
Hami WN	Note Non-HDMI-compliant cables cannot be utilized. It is recommended that you use Panasonic's HDMI cable. Recommended part number: RP-CDHG15 (1.5 m/4.9 ft), RP-CDHG30 (3.0 m/9.8 ft), RP-CDHG50 (5.0 m/16.4 ft), etc.	HDMI AV OUT HOMI	This connection provides the best picture quality. • Set "VIDEO PRIORITY" to "ON" (→ 22, "HDMI" menu). • Set "VIDEO FORMAT" in Menu 4 (HDMI) (→ 19). VIERA Link "HDAVI Control" If your Panasonic TV is an HDMI control compatible, you can operate your TV synchronizing with home theater operations or vice versa (→ 24, Using the VIERA Link™ "HDAVI Control™"). • Make the audio connection (→ above) when you use VIERA Link "HDAVI Control" function.
All Panasonic televisions that have 480p input connectors are compatible. Consult the manufacturer if you have another brand of TV.	Video cables	COMPONENT VIDEO Photographic video out • Connect to terminals of the same color.	This connection provides a much purer picture than the VIDEO OUT terminal. • After making this connection, select "DARKER" from the "BLACK LEVEL" in the "VIDEO" menu (→ 21). 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 (→ 21, "VIDEO" menu).

Note

- Do not make the video connections through the video cassette recorder.

 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.

step Cable connections



Audio and video connections (Continued)

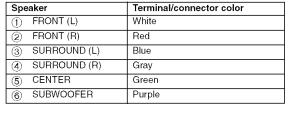
Other audio connection

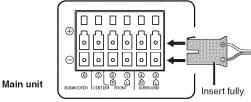
TV terminal	Cable required (not included)	Main unit terminal	Features
OPTICAL OUT	Optical digital audio cable Do not bend sharply when connecting.	OPTICAL IN OPTICAL IN	This unit can decode the surround signals received through cable TV box, digital broadcasting or satellite broadcasts. Refer to your equipment's operating instructions for details. 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 (→ 28).

2 Speaker connections

Connecting the speakers to the main unit:

Connect to terminals of the same color.





PT754 only:

Insert the wire fully.

- +: White
- -: Blue



· Be careful not to cross (short circuit) or reverse the polarity of the speaker wires as doing so may damage the speakers.



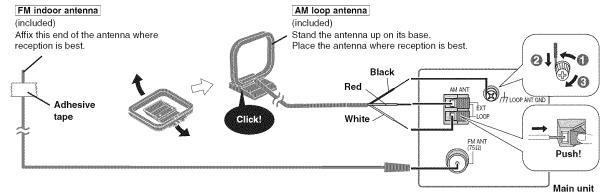
e.g. PT754 Surround speaker (L)

PT754

Speaker cable sticker (included) Attach the speaker-cable stickers to make connection easier.

3 Radio antenna connections

Keep loose antenna cables away from other wires and cables.



Using an FM/AM outdoor antenna (optional)

Use outdoor antenna if FM/AM radio reception is poor.

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

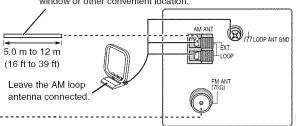
FM outdoor antenna [Using a TV antenna (not included)] ✓● The antenna should be installed by a

 The antenna should be installed by a competent technician.

- **75** Ω **coaxial cable**[⊭] (not included)

AM outdoor antenna [Using a vinyl wire (not included)]

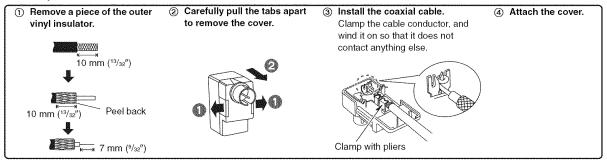
Run a piece of vinyl wire horizontally across a window or other convenient location.



Main unit

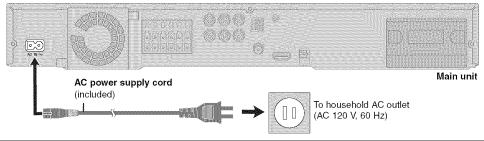
Antenna plug (not included)

* Rework your outdoor antenna's 75 Ω coaxial cable as follows.



step4

AC cord connection



Conserving power

The main unit consumes a small amount of power when it is turned off (main unit: approx. 0.3 W). To save power when it is not to be used for a long time, unplug it from the household AC outlet.

You will need to reset some memory items after plugging in the main unit.

Note

The included AC power supply cord 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.



Preparing the remote control

■ Batteries

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

R6/LR6, AA

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

- 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 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 (→ 13), avoiding obstacles, at a maximum range of 7 m (23 ft) directly in front of the unit.



Performing QUICK SETUP

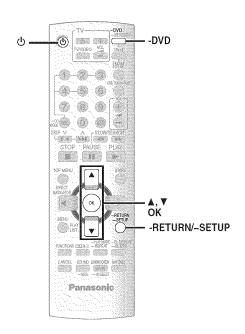
The QUICK SETUP screen assists you to make necessary settings.

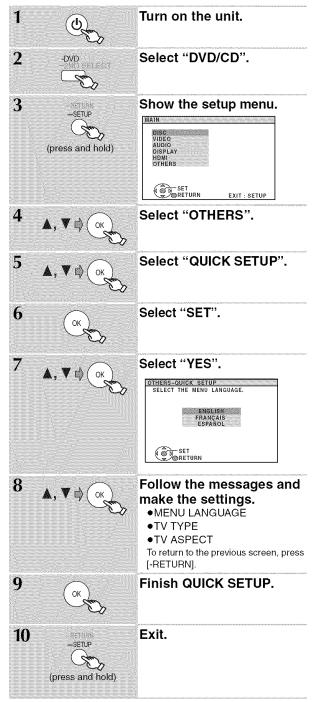


Preparation

Turn on your TV and select the appropriate video input mode (e.g. VIDEO 1, AV 1, HDMI, etc.).

- To change your TV's video input mode, refer to its operating instructions.
- This remote control can perform some basic TV operations (→ 12).



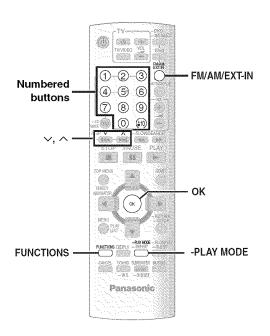


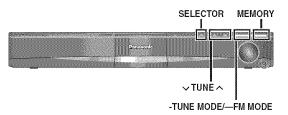
■ Details of settings

MENU LANGUAGE Choose the language for the on-screen messages.	● ENGLISH ● FRAN	IQAIO - ECITATOL	
TV TYPE Select to suit the type of TV.	STANDARD PROJECTION	◆ CRT ◆ PLASMA	• LCD
TV ASPECT Choose the setting to suit your TV and preference.	• 4:3PAN&SCAN • 16:9NORMAL	● 4:3LETTERBOX ● 16:9SHRINK	4:3ZOOM16:9ZOOM



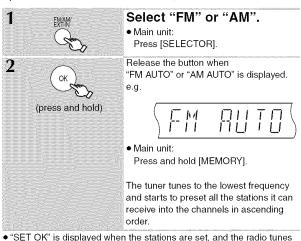
Presetting the radio stations





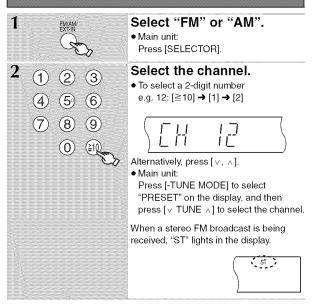
Presetting stations automatically

Up to 30 stations can be set in each band, FM and AM.



- "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 (→ 27).

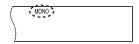
Confirming the preset channels



- The FM/AM 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".



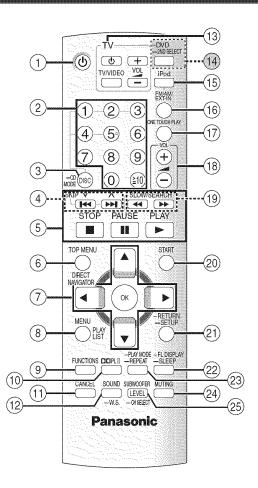
Press and hold the button again to cancel the mode.

• The mode is also canceled when you change the frequency.

When "AM" is selected

Press [FUNCTIONS] on the remote control. Each time you press the button: BP 2←→BP 1

Control reference guide



(4) [-DVD]: Select disc as the source (→ 10): DVD/CD

This function is available only when using the optional Panasonic wireless sound system SH-FX85.

[—2ND SELECT]: Press and hold the button to change the source for the second room;

MAIN SOURCE (follows the selected source for the main room) \rightarrow (FM \rightarrow AM)* \rightarrow IPOD \rightarrow Return to MAIN SOURCE

*If the main room is in FM/AM mode, you can only select the same mode for the FM/AM tuner of the second room.

For details, refer to the operating instructions for the optional Panasonic wireless sound system SH-FX85.

- (1) Turn the main unit on/off (→ 10)
- ② Select channels and title numbers etc. / Enter numbers
 (→ 11, 15)
- ③ Select a disc / Play all loaded CDs sequentially (→ 15, 16)
- ④ Select preset radio stations (→ 27)
- ⑤ Basic operations for play (→ 14, 15)
- (6) Show a disc top menu or program list (→ 15, 17)
- ⑦ Select or confirm menu items / Frame-by-frame (→ 15)
- (8) Show a disc menu or play list (→ 15, 17)
- (9) Show on-screen menu (→ 18)
- (ii) Turn Dolby Pro Logic II on/off (→ 26)
- (f) Cancel (→ 16)
- ② Select sound mode / Turn Whisper Surround on/off (→ 26)
- (13) TV operations

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

[TV/VIDEO]: Change the TV's video input mode

[+, -]: Adjust the TV volume

This may not work properly with some models.

- (5) Select iPod as the source (→ 28)
- (6) Select FM/AM tuner or external audio as the source (→ 27)

- (7) Start up and play a disc automatically (> 15, 24)
- (8) Adjust the volume of the main unit
- (9) Select radio stations manually (>> 27)
- ② Show START menu (→ 13)
- (2) Return to previous screen / Show setup menu (→ 15, 10)
- 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 the [—SLEEP] repeatedly.

SLEEP 30→SLEEP 60→SLEEP 90→SLEEP120

Cancel) ←

- To confirm the remaining time, press and hold the button again.
- Select the play mode / Set the repeat mode (→ 16)
- (24) Mute the sound
 - "MUTING" flashes on the main unit's display while the function is on.
 - To cancel, press the button again or adjust the volume.
 - Muting is canceled when you switch the unit to standby
- ② Adjust the subwoofer level or select speaker channel (→ 27)

Avoiding interference with other Panasonic equipment

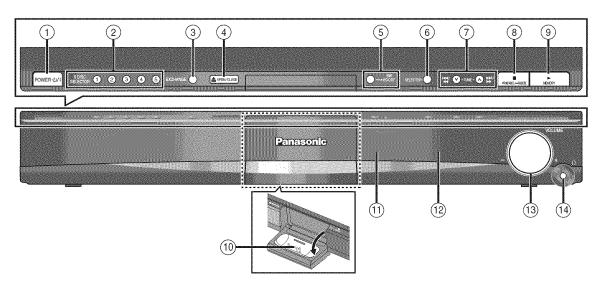
Other Panasonic audio/video equipment may start functioning when you operate the unit using the supplied remote control.

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 [►►I/►►] 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 [POWER 🕹/I]

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 5 DISC SELECTOR Select a disc directly (→ 14)
- ③ Disc exchangeOpen the disc tray to exchange the disc. (→ 14)
- ④ Open/Close the disc tray (→ 14)
- (5) Turn Subwoofer Boost on/off (→ 27)
- ⑥ Select the source DVD/CD→FM→AM→AUX→D-IN→IPOD

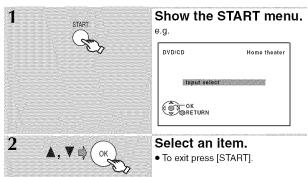
- Stop playing / Select the tuning mode / Adjust the FM reception condition (→ 11, 14)
- (1) Connect iPod (→ 28)
- (f) Remote control signal sensor
- (12) Display
- (13) Adjust the volume of the main unit
- (4) Connect headphones (not included)

Headphone plug type: Ø3.5 mm (1/8") stereo mini plug

- Reduce the volume before connecting.
- Audio is automatically switched to 2-channel stereo.
- To prevent hearing damage, avoid listening for prolonged periods of time.

Utilizing the START menu

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



When "Input select" is selected

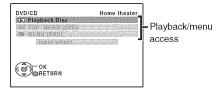
You can select a desired source from the menu.

- DVD/CD (→ 10), FM (→ 11), AM (→ 11), AUX* (→ 28),
 DIGITAL IN* (→ 28), iPod (→ 28)
- * "(TV)" will appear beside "AUX" or "DIGITAL IN", indicating the TV audio setting for VIERA Link "HDAVI Control" (→ 24).

Press [▲, ▼], then press [OK] to make the settings.

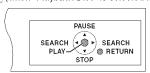
When a disc is loaded, you can also access playback or menus from the START menu.

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.

Using the main unit



Turn on the unit.

SELECTOR

Select "DVD/CD".

facing up



Open all the disc trays.

- To select a desired tray (→ below, Selecting the desired tray).
- Press [≜OPEN/CLOSE] again to close all the disc trays.

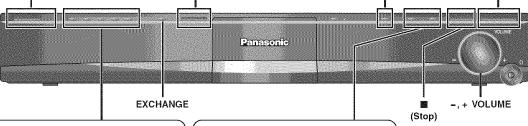
Load the disc.

- Load double-sided discs so the label for the side you want to play is facing up.
- Press [EXCHANGE] to load discs one by one.
- For DVD-RAM, remove the disc from its cartridge before use.
- Do not:
- Load more than one disc per tray.
- Push or pull out the tray by hand.



Start play.

- \bullet Turn [-, + VOLUME] to adjust the volume.
- You can enjoy surround sound when you press [DDPLII] on the remote control to turn on Dolby Pro Logic II (→ 26).



5 DISC 1



control (→ 15, Selecting a disc).

Press to select a disc directly.









• You can also select the disc using the remote

Press to skip.

Press and hold to

- search during play
- start slow-motion play during pause

└ (**∨**)-TUNE-(

Press [►] (Play) to start normal play.

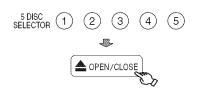
discs

without

playback

interrupting

Selecting the desired tray



Press [AOPEN/CLOSE] again to close the tray.

During play, Change



- All trays are opened (except the tray that the disc is playing).
- Press [EXCHANGE] to close the top tray. Press again until all the trays are closed.

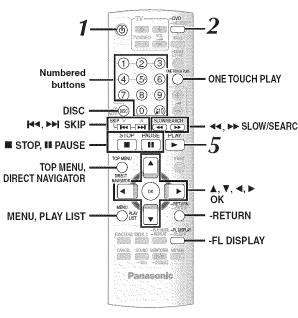
Note

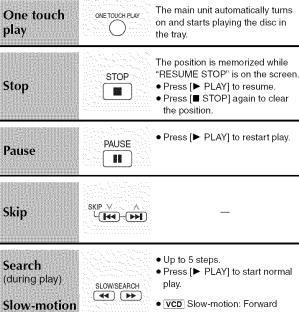
- DISC CONTINUES TO ROTATE WHILE MENUS ARE DISPLAYED. To preserve the unit's motor and your TV screen, press [■] (Stop) when you are finished with the menus.
- Total title number may not be displayed properly on +R/+RW.

Enter

number

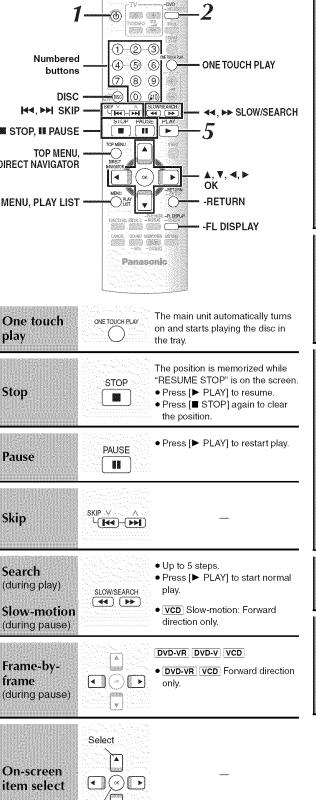
Using the remote control

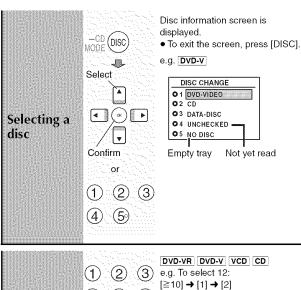




frame

Confirm



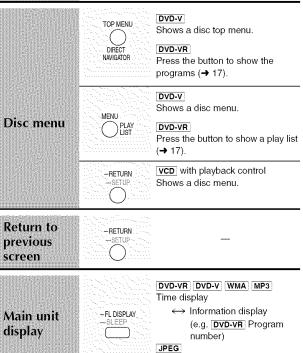


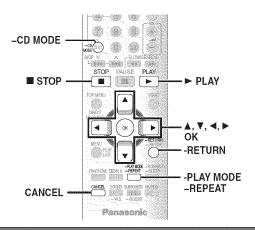
(0)(210) VCD with playback control

SLIDE ← Contents number

numbered buttons.

Press [STOP] to cancel the PBC function, and then press the

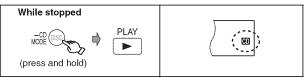




Playing CDs sequentially (CD Mode)

VCD CD WMA MP3

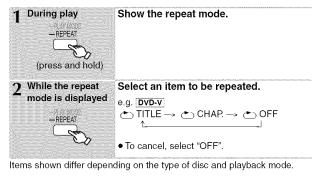
This feature allows you to play all loaded CDs sequentially. Select an applicable disc before playing (→ 15, Selecting a disc).



- If all loaded discs are DVDs, CD Mode does not work.
- Video CD playback control are disabled.
- You cannot turn CD Mode on or off during program or random mode.
- If you want to play a DVD, press and hold [-CD MODE] again while stopped to cancel CD Mode. (CD Mode is also canceled when you switch the unit to standby, select another source, or when the disc tray is opened.)

Repeat play

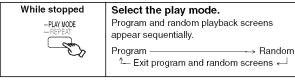
This works only when the elapsed play time can be displayed. It also works with all JPEG content.



Program and Random play

To enjoy program or random play with:

- 1 disc : ensure CD Mode (→ above) is off
- all discs: ensure CD Mode is on

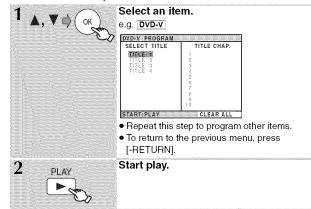


- <u>DVD-VR</u> Select "DATA" in "DVD-VR/DATA" (→ 22, "OTHERS" menu) to play WMA, MP3 or JPEG contents.
- DVD-V Some items cannot be played even if you have programmed them.

Program play (up to 30 items)

■ 1-Disc program

[DVD-V VCD] [CD] [WMA] [MP3] [JPEG] You can program all the items on a disc in the selected tray.



■ All-Disc program (when CD Mode is on)

VCD CD You can program all the items on all the discs.

- Press [▲, ▼], and then press [OK] to select the disc.
- ② Press [▲, ▼], and then press [OK] to select the track.
- ③ Repeat step ① and ② to program other items.
 - •To return to the previous menu, press [-RETURN].
- ④ Press [► PLAY].

To select all the items

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

To clear the selected program

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

To clear the whole program

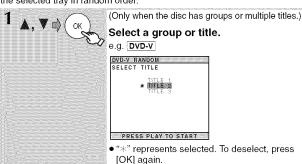
Press [**>**] several times to select "CLEAR ALL", and then press [OK]. The whole program is also cleared when the disc tray is opened, the unit is turned off or another source is selected.

Random play

■ 1-Disc random

VCD CD You can playback all the items on a disc in the selected tray in random order.

DVD-V WMA MP3 JPEG You can playback selected item(s) on a disc in the selected tray in random order.



■ All-Disc random (when CD Mode is on)

Start play.

VCD CD You can playback all the items on all the discs in random order.



PLAY



Playing data discs

WMA MP3 UPEG

DVD-VR Select "DATA" in "DVD-VR/DATA" (-> 22, "OTHERS" menu) to play WMA, MP3 or JPEG contents.

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):



: JPEG

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

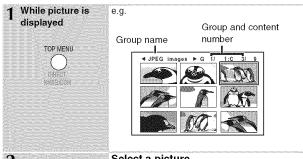


Select an item.

- To return to the previous screen, press [-RETURN].
- Maximum: 12 characters for file/folder name.

Play starts from the selected content.

■ Selecting the picture in Thumbnail menu





Select a picture.

 Press [I◄◄, ▶► SKIP] to skip page by page.

To go to other group

- 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





 To exit the screen, press [DIRECT NAVIGATOR].

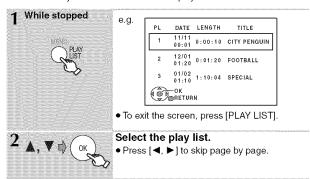


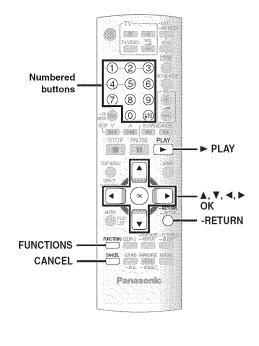
Select the program.

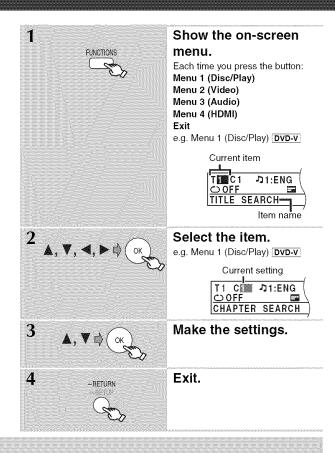
Press [◄, ▶] to skip page by page.

Playing a play list

This works only when the disc contains a play list.







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]	
	DVD-V (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.	
AUDIO	Signal type/data LPCM/PPCM/DDD/DTS/MP3/MPEG: Signal type kHz (Sampling frequency)/bit/ch (Number of channels) e.g. 3/2_1ch	

3: Front left+Front right+Center

	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.
PLAY SPEED	- 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.
	(→ 16, Repeat play)
C) REPEAT MODE	A-B Repeat (To repeat a specified section) Except JPEG DVD-VR (Still picture part) VCD (SVCD) Press [OK] at the starting and ending points. Select "OFF" to cancel.
	DVD-V (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.
SUBTITLE	DVD-VR (with subtitle on/off information)
	To select "ON" or "OFF"
	 This may not work depending on the disc.
	DVD-V (with multiple angles)
	To select a video angle
ANGLE	

JPG DATE DATE DISPLAY	☑PEG To select "ON" or "OFF" for picture's date display
ROTATION	To rotate a picture (during pause) □PEG : 0←→ 90←→180←→270 ↑

■ Menu 2 (Video)		
	NORMA CINEMA	_
	CINEMA	2: Sharpens images and enhances detail in dark scenes.
PICTURE MODE	DYNAM	
	ANIMAT	ON: Suitable for animation.
Q zoom		rt zoom sizes L, AUTO, ×2, ×4
TRANSFER	If you have chosen "480p"/"720p"/"1080p" (progressive), "1080i" (interlaced) ["VIDEO FORMAT" in Menu 4 (HDMI)] or "PROGRESSIVE" under "VIDEO OUT (I/P)" (→ 21, "VIDEO" menu), select the method of conversion for progressive output to suit the type of material. • The setting will return to "AUTO1" when the disc tray is opened, the unit is turned off or another source is selected.	
MODE		Automatically detects the film and video content, and appropriately converts it. In addition to "AUTO1", automatically detects film contents with different frame rates and appropriately converts it. Select when using "AUTO1" or "AUTO2", and the content is distorted.

■ 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) OFF, ON
DD PLII	OFF, MOVIE, MUSIC (→ 26, Using Dolby Pro Logic II)

■ Menu 4 (HDMI)

HDMI HDMI STATUS	To show HDMI information. (→ below, Confirming HDMI information)
	This works when the HDMI connection is being used with "VIDEO PRIORITY" (→ 22, "HDMI" menu) is set to "ON".
HD ENHANCER	To sharpen the "720p", "1080i" and "1080p" picture quality OFF, 1 (weakest) to 3 (strongest)
	This works when the HDMI connection is being used with "VIDEO PRIORITY" (→ 22, "HDMI" menu) is set to "ON".
	To select suitable picture quality with your T\ (Video recordings will be converted to, and output as, high-definition video.)
VIDEO FORMAT	*480p/720p/1080p (progressive) *480i/1080i (interlaced)
	 If the picture is distorted, press and hold [CANCEL] until the picture is displayed correctly. (The output will return to "480p".)
	* The numbers displayed depend on the disc being played. One of the above numbers is displayed.
	This works when the HDMI connection is being used with "VIDEO PRIORITY" (→ 22, "HDMI" menu) is set to "ON".
	To select suitable picture color with your TV
	YC⊾Cr (4:2:2)* - Luminance and color details is sent separately. Most of the picture details are in luminance. The color rate is much higher that composite video. Compatible for all TV models.
COLOR SPACE	YC _b Cr (4:4;4)* - All color details is sent. Luminance and color details are in same signal. RGB - Component video type of signal.
	 If the setting above is not compatible with your TV, it will not be displayed.
	²² Terms are descriptions of the sample formats used in digital video. YC₀C₁ is a video signal for the sample formats.

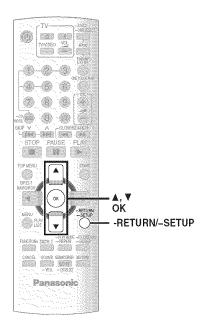
Confirming HDMI information

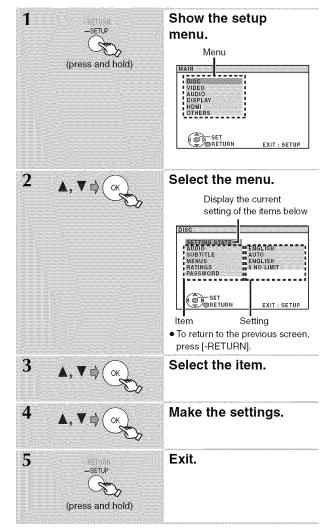
e.g.		HDMI - INF	ORMATION
	①	- CONNECTED STATE - AUDIO STREAM - MAX CHANNEL - VIDEO FORMAT	CONNECTED PCM 2ch 720p
	9	- COLOR SPACE	YCbCr 4:4:4

luminance (Y), blue (C_b) and red (C_r) details.

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

When "OFF" is selected in "AUDIO OUT" (→ 22, "HDMI" menu), "---" will be displayed in "AUDIO STREAM".





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

QUICK SETUP enables successive settings of the items in the shaded area.

■ "DISC" menu

AUDIO Choose the audio language.	● <u>ENGLISH</u>	• FRENCH	● SPANISH	● ORIGINAL*1	• OTHER*2
SUBTITLE Choose the subtitle language.	◆ <u>AUTO</u> *³	◆ ENGLISH	• FRENCH	● SPANISH	● OTHER*2
MENUS Choose the language for disc menus. Changing the menu language in QUICK SETUP also changes this setting.	• ENGLISH	• FRENCH	• SPANISH	●OTHER	
RATINGS Set a rating level to limit DVD-Video play.		(When level 8 is a To prevent play o	selected) of discs without ra	uting levels.	
	Follow the on-s Do not forget A message scr	creen instruction your password.	n if a DVD-Video o		ating level is inserted in the unit.
PASSWORD Change the password for "RATINGS".		ngs (When level 0	,		

^{*1} The original language designated on the disc is selected.

^{*2} Input the appropriate code from the language code list (→ 23).

[🗝] If the language selected for "AUDIO" is not available, subtitles appear in that language (if available on the disc).

■ "VIDEO" menu

TV ASPECT Choose the setting to suit your TV and preference.	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.
	4:3ZOOM: Regular aspect TV (4:3) The picture zooms in and out.
	16:9NORMAL: Widescreen TV (16:9) Laterally stretches image.
	16:9SHRINK: Widescreen TV (16:9) Images appear at the center of the screen.
	16:9ZOOM: Widescreen TV (16:9) Expands to 4:3 aspect ratio.
TV TYPE Select to suit the type of TV.	● STANDARD ● CRT ● LCD ● PROJECTION ● PLASMA
TIME DELAY When connected with a Plasma display, adjust if you notice the audio is out of sync with the video.	● <u>0 ms/AUTO</u> ● 20 ms ● 40 ms ● 60 ms ● 80 ms ● 100 ms When using VIERA Link "HDAVI Control" with "HDAVI Control 3" compatible TV (→ 24), select "0 ms/AUTO". Audio and video will automatically be set in sync. (This works only when "DVD/CD" is selected as the source.)
STILL MODE Specify the type of picture shown when paused.	AUTO FIELD*4: The picture is not blurred, but picture quality is lower. FRAME*4: Overall quality is high, but the picture may appear blurred.
BLACK LEVEL Change the black level of the picture.	• LIGHTER • DARKER
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

DOLBY DIGITAL*5	◆BITSTREAM ◆ PCM	Select to suit the type of equipment you connected to the HDMI AV OUT terminal.
DTS#5	◆ BITSTREAM ◆ PCM	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.)
DYNAMIC RANGE	ON: Adjusts for clarity entry Dolby Digital) OFF	even when the volume is low. Convenient for late night viewing. (Only works with
SPEAKER SETTINGS Make settings for your speakers.	SETTINGS:	

[∗] Refer to "Frame still and field still" (→ 35, Glossary).

(Continued on next page)

^{*5} 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.

QUICK SETUP enables successive settings of the items in the shaded area.

■ "DISPLAY" menu

LANGUAGE	ENGLISH FRANÇAIS ESPAÑOL
Choose the language for the	
on-screen messages	
on-screen messages.	

■ "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" in Menu 4 (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 (→ 24). OFF

■ "OTHERS" menu

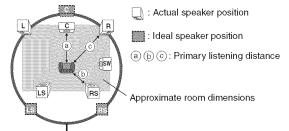
JPEG TIME Set the speed of the slideshow. Factory preset: 3 SEC	1 SEC to 15 SEC (in 1-unit steps) 15 SEC to 60 SEC (in 5-unit steps) 60 SEC to 180 SEC (in 30-unit steps)
FL DIMMER Change the brightness of the unit's display.	► BRIGHT
QUICK SETUP	SET Follow the on-screen instructions.
DVD-VR/DATA Select 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.
DEFAULTS This returns all values in the MAIN menu to the default settings.	■ RESET The password screen is shown if "RATINGS" (→ 20) is set. Please enter the same password, then turn the unit off and on again.

Selecting 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.

© Center speal	ker	Surround spea	aker	
Difference (Approx.)	Setting	Difference (Approx.)	Setting	l
30 cm (1 foot)	1ms	150 cm (5 feet)	5ms	İ
60 cm (2 feet)	2ms	300 cm (10 feet)	10ms	ĺ
90 cm (3 feet)	3ms	450 cm (15 feet)	15ms	
120 cm (4 feet)	4ms			•
150 cm (5 feet)	5ms			

To make the delay time settings

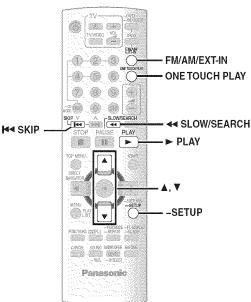
Select "C DELAY" (Center Delay) or "SL/SR DELAY" (Surround Left/ Surround Right Delay) from "SPEAKER SETTINGS" in "AUDIO" menu (→ 21).



Language code list

16000000000000000000000000000000000000	DICCHONOLOGICANONI	***************************************		H4462540141110-201100241110020000024112541440000	0001-010-010-010-010-010-010-010-010	BD000000000000000000000000000000000000	00000000000000000000000000000000000000	######################################	
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		

Using the VIERA Link™ "HDAVI Control™"



VIERA Link "HDAVI Control"

VIERA Link™ is a new name for EZ Sync™.

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 3" function. "HDAVI Control 3" is the newest standard (current as of December, 2007) 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)"] (→ 25)

Preparation

- Confirm that the HDMI connection has been made (→ 7).
- Set "VIERA Link" to "ON" (→ 22, "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 between "AUX" and "D-IN" to work with the linked operations. Confirm the audio connection to the AUX terminal (for "AUX") (→ 7) or OPTICAL IN terminal (for "D-IN") (→ 8).

- Press [FM/AM/EXT-IN] to select "AUX" or "D-IN".
- Press and hold [—SETUP] to select "TV AUDIO", then press [▲, ▼] to switch "AUX" or "D-IN".

Whenever the connection or settings are changed, reconfirm the points

"AUX" or "D-IN" ("DIGITAL IN") works depending on the "TV AUDIO" setting (→ above, Setting the TV audio for VIERA Link "HDAVI Control").

■ Automatic setup

The settings for "TV ASPECT"*1 (→ 21, "VIDEO" menu) and "LANGUAGE"*2 (→ 22, "DISPLAY" menu) will automatically follow to the settings of the TV.

(This may not work if the corresponding setting you have made for your TV is not available on this unit.)

- *1 When using VIERA Link "HDAVI Control" with "HDAVI Control 3" compatible TV
- *2 When using VIERA Link "HDAVI Control" with "HDAVI Control 2 (or later)" compatible TV

One touch play

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



To start disc playback.

 This unit's speakers will be automatically activated (→ 25).

This function also works if you press [▶ PLAY] on this unit's remote control when this unit is in standby mode.

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"*. (This does not work when this unit is in "IPOD" mode.)
- 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.

- This function works only when "DVD/CD", "AUX"* or "D-IN"* is selected as the source on this unit.
- When the TV is turned on, this unit does not turn on automatically. (Power on link is not available.)

Note

When you press [b], only this unit turns off. Other connected equipment compatible with VIERA Link "HDAVI Control" stays on.

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 of your TV.

Home theater

This unit's speakers are active.

- 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 FL display.)
- To cancel muting, you can also use this unit's remote control (→ 12).
- 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", "AUX"* or "D-IN"* is selected as the source on this unit.
- Audio output is 2-channel audio.

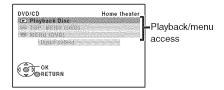
When switching between this unit speakers and TV speakers, the TV screen may be blank for several seconds.

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. [SUB MENU]).
- When "DVD/CD" is selected as the source, this works only during stop mode.
- This does not work while iPod music playback screen is displayed on the TV.
- 2 Select the desired item on the START menu (→ 13).

When the on-screen control panel appears

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



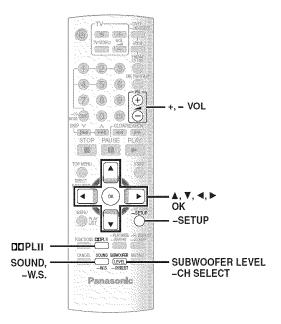
You can operate the playback with the indicated controls.

- The on-screen control panel can also be shown by using a button on the TV's remote control (e.g. [SUB MENU]).
- -This works only during "DVD/CD" playback and resume modes or, while iPod music playback screen is displayed on the TV.

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.

Using sound effects





- The following sound effects may not be available or have no effect with some sources, or when headphones are used (+ 13).
- 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.

Preparation

To display the picture, turn on the TV and select the appropriate video input mode.

Setting the sound effects

Select a sound mode. Each time you press the button: EQ: Equalizer R.C. FCS: Real Center Focus SRD ENH: Surround Enhancer S.MUSIC: Surround Music While the selected Make settings. mode is displayed 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).

■ Real Center Focus

(Effective when playing audio containing center channel sound or when Dolby Pro Logic II is on.)

You can make the sound of the center speaker seem like it is coming from within the TV.

R.C.FCS ON ← → R.C.FCS OFF

■ Surround Enhancer

Automatically adjusts each speaker to enhance the surround sound effect of 5.1-channel audio. When playing two-channel audio, the audio of the L/R front speakers is also output through the rest of the speakers creating a surround sound effect.

SRD ENH ON←→SRD ENH OFF

■ Surround Music

The sound fills the room, and comes from all directions with equal intensity.

S.MUSIC ON -S.MUSIC OFF

Using Dolby Pro Logic II

Dolby Pro Logic II is an advanced decoder that derives 5-channel surround from stereo sound sources, whether or not it has been specifically Dolby Surround encoded.



Each time you press the button:

MOVIE: Movie software MUSIC: Stereo sources

OFF: Cancel



- "DDPLII" lights when there is effect.
- This does not work when audio is output from HDMI AV OUT terminal.
- . You can adjust the volume of the surround speakers to get the best surround effect (> 27, Adjusting the speaker level).

Using Whisper-mode Surround

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





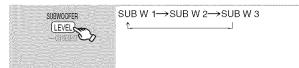
• "(())" lights when there is effect.

Each time you press the button: WHISPER-MODE SRD ON

WHISPER-MODE SRD OFF

Adjusting the subwoofer level

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

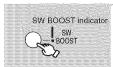


- To check the current setting, press [SUBWOOFER LEVEL].
- The setting you make is retained, and recalled every time you play the same type of source.

Using Subwoofer Boost

Main unit only

You can enhance the subwoofer effect with strong bass.



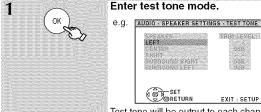
BST ON←→BST OFF SW BOOST indicator The SW BOOST indicator lights when Subwoofer Boost is turned on.

Adjusting the speaker level

You can adjust the surround sound levels.

Preparation

- Press [+, VOL] to adjust the volume to normal listening level.
- Select "TEST TONE" from "SPEAKER SETTINGS" in "AUDIO" menu (> 21).



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

LEFT, CENTER, RIGHT, SURROUND RIGHT, SURROUND LEFT



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

-6 dB to +6 dB

• To exit the screen, press and hold [-SETUP].

■ To adjust speaker level during play

(Effective when playing 5.1-channel sound or when Dolby Pro

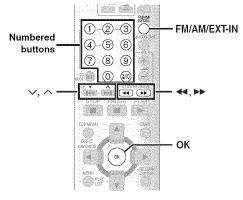
1) Press and hold [-CH SELECT] to select the speaker. While the speaker channel is displayed, press [—CH SELECT]. $L \! \to \! C \! \to \! R \! \to \! RS \! \to \! LS \! \to \! SW$

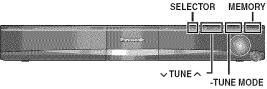
- You can adjust SW (Subwoofer) only if the disc includes a subwoofer channel and "DDPLII" is not lit.
- ② Press [▲] (increase) or [▼] (decrease) to adjust the speaker level for each speaker.

C, RS, LS, SW: -6 dB to +6 dB (L, R: Only the balance is adjustable.)

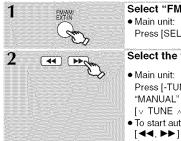
To adjust the balance of the front speakers, while "L" or "R" is selected, press [◀, ▶].

Enjoying the FM/AM radio





Manual tuning



Select "FM" or "AM".

Press [SELECTOR].

Select the frequency.

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: [▽ TUNE ∧]) until the frequency starts scrolling. Tuning stops when a station is found

Presetting stations manually

Up to 30 stations can be set in each band, FM and AM.

- (1) 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 [∨, ∧],



and then press [OK].

Main unit:

- ① While listening to the radio broadcast Press [MEMORY] twice.
- While a channel no. is flashing on the display Press [\vee TUNE \wedge], and then press [MEMORY].

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

FM frequency step

Main unit only

The step is factory-set to 0.2-MHz, but you can change it to receive broadcasts allocated in 0.1-MHz steps.

1) Press [SELECTOR] to select "FM".

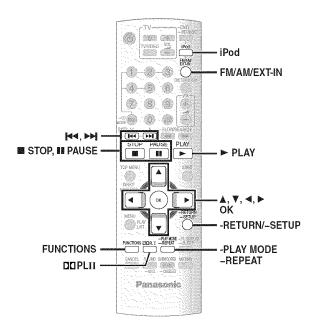
② Press and hold [SELECTOR].

After a few seconds the display changes to show the current minimum frequency. Continue to hold the button down. The minimum frequency changes and the step is changed.

To return to the original step, repeat steps (1) and (2).

After changing the setting, previously preset frequencies will be cleared. Preset them again.

Operating other equipment



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

Enjoying TV audio

Preparation

Confirm the audio connection to the AUX terminal on the main unit (→ 7).



Select "AUX".

- Reduce the volume on the TV to its minimum, and then adjust the volume of the main unit.
- You can enjoy surround sound effect when you press [□□PLII] to turn on Dolby Pro Logic II (→ 26).

Enjoying digital audio

Preparation

Confirm the audio connection to the OPTICAL IN terminal on the main unit (\rightarrow 8).



Select "D-IN" (Digital In).

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 and hold [—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

PCM FIX mode

PCM ON: Select when receiving only PCM signals.

PCM OFF: Select when receiving Dolby Digital and PCM signals.

Note

Audio that is input through the OPTICAL IN terminal cannot be output through the HDMI terminal.

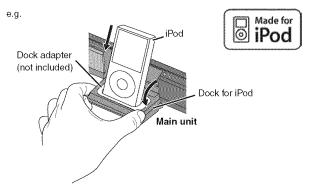
Using the iPod

Preparation

- To view photos/videos from the iPod
- Ensure the video connection to the VIDEO OUT terminal on this unit
 (→ 7).
- Operate the iPod menu to make the appropriate photo/video output settings for your TV. (Refer to operating instructions of your iPod.)
- To display the picture, turn on the TV and select the appropriate video input mode.
- Before connecting/disconnecting the iPod, turn the main unit off or reduce the volume of the main unit to its minimum.

Connect the iPod (not included) firmly.

Recharging starts when the iPod is inserted.



- Hold the dock when connecting/disconnecting the iPod.
- Attach the dock adapter which should be supplied with your iPod to the dock for the stable use of the iPod.

If you need an adapter, consult your iPod dealer.



Select "IPOD".

The iPod automatically switches to this unit's display mode.

Music menu appears on the TV. e.g.



To operate through display of iPod, press [FUNCTIONS].



- Press [◄, ▶] to skip page by page.
- · To return to the previous screen, press

Play starts from the selected song.





*1 To select shuffle modes

Press [-PLAY MODE].

Each time you press the button:

Song shuffle:

🕰: Album shuffle

*2 To select repeat modes

Press and hold [—REPEAT] and then press the button repeatedly within 3 seconds.

Each time you press the button:

: Repeat 1 song

: Repeat all

Off: Cancel

Enjoying photos/videos



Switch the iPod to its own display mode.

Proceed with operations through display of

$2\,$ Play a slideshow or video on your iPod.

The picture will be displayed on your TV.

You can also use the remote control to operate iPod menu.

[▲, ▼]: To navigate menu items [OK]: To go to the next menu

[-RETURN]: To return to the previous menu

Basic controls (For music and videos only)

,	• • • • • • • • • • • • • • • • • • • •
Button	Function
[► PLAY]	Play
[■ STOP], [▮▮ PAUSE]	Pause
[◄◄, ▶▶]	Skip
(press and hold)	Search
[⊣, ▶▶]	

• You can enjoy surround sound effect when you press [□□PLII] to turn on Dolby Pro Logic II (→ 26).

When using the START menu in "IPOD" mode

Select "Music" or "Photos/Videos".

Music: Shows the music menu.

Photos/Videos: Switches to display of iPod.

About recharging the battery

- iPod will start recharging regardless of whether this unit is on or off.
- "IPOD *" will be shown on the main unit's display during iPod charging in main unit standby mode.
- · Check iPod to see if the battery is fully recharged.
- If you are not using iPod for an extended period of time after recharging has completed, disconnect it from main unit, as the battery will be depleted naturally. (Once fully recharged, additional recharging will not occur.)

Compatible iPod

- iPod touch (8GB, 16GB)
- iPod nano 3rd generation (video) (4GB, 8GB)
- iPod classic (80GB, 160GB)
- iPod nano 2nd generation (aluminum) (2GB, 4GB, 8GB)
- iPod 5th generation (video) (60GB, 80GB)
- iPod 5th generation (video) (30GB)
- iPod nano 1st generation (1GB, 2GB, 4GB)
- iPod 4th generation (color display) (40GB, 60GB)
- iPod 4th generation (color display) (20GB, 30GB)
- iPod 4th generation (40GB)
- iPod 4th generation (20GB)
- iPod mini (4GB, 6GB)

Compatibility depends on the software version of your iPod.

Discs that can be played

Commercial discs

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

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

Disc	Logo		ed on a video er, etc.		ed on a pe mputer, e		Finalizing*6
900000000000000000000000000000000000000	***************************************	DVD-VR 32	DVD-V ×4	WMA	MP3	JPEG	*
DVD-RAM	R A M R A M 4.7	0	_	_	0	0	Not necessary
DVD-R/RW	R W R W	0	0		0	0	Necessary
DVD-R DL	R DL	○ *3	0	_	_	_	Necessary
+R/+RW	********		(())**5				Necessary
+R DL	_	_	(()**5	_	_	_	Necessary
CD-R/RW*1	_	_	_	0	0	0	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 (→ 31, Tips for making data discs).
- *1 This unit can play CD-R/RW recorded with CD-DA or Video CD format.
- x2 Discs recorded on DVD recorders or DVD video cameras, etc. using Version 1.1 of the Video Recording Format (a unified video recording standard).
- 🗝 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.
- x8 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, DivX Video Discs and 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.

■ 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.

- 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 benzine 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 trays are empty. Failure to do so will risk severely damaging the discs and the unit.

Listening caution



Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing.

We recommend that you avoid prolonged exposure to excessive noise.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing.

Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

• Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.



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 chart do not solve the problem, refer to "Customer Services Directory" on page 38 if you reside in the U.S.A., or refer to "Product information" on page 35 if you reside in Canada.

Power

No power.	• Insert the AC power supply cord securely.	9
The unit is automatically switched to standby mode.	The Sleep timer was working and had reached the set time limit.	12

Unit displays

The display is dark.	Select "BRIGHT" in "FL DIMMER" in the "OTHERS" menu.	22
"NOPLAY"	You inserted a disc the unit cannot play; insert one it can. You inserted a blank disc. You inserted a disc that has not been finalized.	30
"NODISC"	You have not inserted a disc; insert one. You have not inserted the disc correctly; insert it correctly.	_ 14
"F61"	Check and correct the speaker cable connections. If this does not fix the problem, consult the dealer.	8
"F76"	There is a power supply problem. Consult the dealer.	_
"DVD U11"	Disc may be dirty. Wipe it clean.	31
"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 supply cord, and then reconnect it. If the service numbers fail to clear, note the service number and contact a qualified service person. 	
" W1 " or " W2 " is flashing.	• W1 and W2 are the wireless link indicators for the optional wireless accessories: SH-FX67 and SH-FX85 respectively. The flashing will stop after a while.	_
"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.	12

General operation

No response when any buttons are pressed.	 This unit cannot play discs other than the ones listed in these operating instructions. 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 supply cord, and then reconnect it. Condensation has formed. Wait 1 to 2 hours for it to evaporate. 	30 —
No response when remote control buttons are pressed.	Check that the batteries are installed correctly. The batteries are depleted. Replace them with new ones. Aim the remote control at the remote control signal sensor and operate.	9 9 13
Other products respond to the remote control.	Change the remote control operating mode.	12
Cannot play DVDs.	CD Mode is on. Press and hold [-CD MODE] to turn CD Mode off.	16
No picture or sound.	Check the video or speaker connection. Check the power or input setting of the connected equipment and the main unit. Check that the disc has something recorded on it.	7, 8 — —
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.) 	
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.	24
The setting you made in "TV ASPECT" (→ 21, "VIDEO" menu) or "LANGUAGE" (→ 22, "DISPLAY" menu) does not work.	The settings for "TV ASPECT"*1 and "LANGUAGE"*2 will automatically follow to the settings of the TV. Select using TV settings. *1 When using VIERA Link "HDAVI Control" with "HDAVI Control 3" compatible TV *2 When using VIERA Link "HDAVI Control" with "HDAVI Control 2 (or later)" compatible TV	_

Disc trays

1 * ' ' '	• Press [the distribution of the previous tray(s) as the unit will switch off. Switch it on again and the tray(s)	_
"CHGR ERR" is displayed.	will initialize to the previous tray(s) condition. If this still does not fix the problem, please consult the	1
	dealer.	

Disc operation

It takes time before play starts. MP3	 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. 	_
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.	_
No subtitles.	● Display the subtitles. ("SUBTITLE" in Menu 1)	18
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.	Effects do not work. • Some audio effects do not work or have less effect with some discs.	
Humming is heard during play. • An AC supply cord or fluorescent light is near the main unit or wireless system. Keep other appliances and cables away from the main unit and wireless system.		
No sound.	 There may be a slight pause in sound when you change the play speed. 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". 	
No sound from the TV.	o sound from the TV. • Confirm the audio connection. Press [FM/AM/EXT-IN] to select the corresponding source.	
No surround sound. ● Press [□□PLII] to turn on Dolby Pro Logic II or turn on Surround Enhancer.		26

Picture

The picture on the TV is not displayed correctly or disappears.	 Ensure that the unit is connected directly to the TV, and is not connected through a video cassette recorder. 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. 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 video output unacceptable with the connected TV is not selected. Press and hold [CANCEL] until the picture is displayed correctly. (The output will return to "480p".) 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. 	7
Picture size does not fit the screen. • Change "TV ASPECT" in the "VIDEO" menu. • Use the TV to change the aspect. • Change the zoom setting. ("ZOOM" in Menu 2)		21 — 19
Menu is not displayed correctly.	ely. ● Restore the zoom ratio to "NORMAL". ("ZOOM" in Menu 2)	
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.		_

(Continued on next page)

iPod operation

Cannot charge or operate.	Check that the iPod is connected firmly. The battery of the iPod is depleted. Charge the iPod, and then operate again.	28 —
Cannot display iPod photos/ videos on the TV.	Ensure the video connection to the VIDEO OUT terminal on this unit. Operate the iPod menu to make the appropriate photo/video output settings for your TV. (Refer to operating instructions for your iPod.)	

HDMI or progressive video

Troubleshooting guide

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 4 to "480î". Or, disable the HDMI AV OUT connection and use other video connections. 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.)	
Pictures not in progressive output. Select "PROGRESSIVE" in "VIDEO OUT (I/P)" in "VIDEO" menu. The unit's VIDEO OUT terminal outputs the interlaced signal even if "PRG" is displayed.		21 —
Closed captions not displayed. • When HDMI or progressive output is on, closed captions will not be displayed.		_

Radio

Distorted sound or noise is heard. "ST" flickers or does not light.	◆ Adjust the position of the FM or AM antenna. ◆ Use an outdoor antenna.	9
A beat sound is heard.	● Turn the TV off or move it away from the unit.	_
A low hum is heard during AM broadcasts.	Separate the antenna from other cables.	_

TV displays

"O" ● The operation is prohibited by the unit or disc.		
"THIS DISC MAY NOT 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

Glossary

Decoder

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

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.

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 color 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.

Playback control (PBC)

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

Progressive/Interlaced

NTSC, the video signal standard, has 480 interlaced (i) scan lines, whereas progressive scanning uses twice the number of scan lines. This is called 480p.

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

Your television 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.

Product Service

- 1. Damage requiring service—The unit should be serviced by qualified service personnel if:
 - (a) The AC power supply cord or AC adaptor has been damaged; or
 - (b) Objects or liquids have gotten into the unit; or
 - (c) The unit has been exposed to rain; or
 - (d) The unit does not operate normally or exhibits a marked change in performance; or
 - (e) The unit has been dropped or the cabinet damaged.
- 2. Servicing—Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.
- 3. Replacement parts—When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.
- 4. Safety check—After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

The servicer will require all components to service your system.

Therefore, should service ever be necessary, be sure to bring the entire system.

Product information

For product information or assistance with product operation:

In the U.S.A., refer to "Customer Services Directory" on page 38. In Canada, contact the Panasonic Canada Inc. Customer Care Centre at 1-800-561-5505, or visit the website (www.panasonic.ca), or an authorized Servicentre closest to you.

AMPLIFIER SECTION

PT660

RMS Output Power: Dolby Digital Mode

Front Ch 125 W per channel (3 Ω), 1 kHz, 10 % THD Surround Ch 125 W per channel (3 Ω), 1 kHz, 10 % THD Center Ch 250 W per channel (6 Ω), 1 kHz, 10 % THD Subwoofer Ch 250 W per channel (6 Ω), 100 Hz, 10 % THD Total RMS Dolby Digital mode power

FTC Output Power: Dolby Digital Mode

Front Ch 63 W per channel (3 Ω), 120 Hz to 20 kHz, 1 % THD Surround Ch 34 W per channel (3 Ω), 120 Hz to 20 kHz, 1 % THD Center Ch 113 W per channel (6 Ω), 120 Hz to 20 kHz, 1 % THD Subwoofer Ch 121 W per channel (6 Ω), 45 Hz to 120 Hz, 1 % THD Total FTC Dolby Digital mode power

PT754

RMS Output Power: Dolby Digital Mode

Front Ch 125 W per channel (3 Ω), 1 kHz, 10 % THD Surround Ch 125 W per channel (3 Ω), 1 kHz, 10 % THD Center Ch 200 W per channel (6 Ω), 1 kHz, 10 % THD Subwoofer Ch 200 W per channel (6 Ω), 100 Hz, 10 % THD Total RMS Dolby Digital mode power

FTC Output Power: Dolby Digital Mode

57 W per channel (3 Ω), 120 Hz to 20 kHz, 1 % THD Front Ch Surround Ch 34 W per channel (3 Ω), 120 Hz to 20 kHz, 1 % THD 101 W per channel (6 Ω), 120 Hz to 20 kHz, 1 % THD Center Ch Subwoofer Ch 109 W per channel (6 Ω), 45 Hz to 120 Hz, 1 % THD Total FTC Dolby Digital mode power

FM/AM TUNER, TERMINALS SECTION

Preset Memory FM 30 stations AM 30 stations

Frequency Modulation (FM)

87.9 MHz to 107.9 MHz (200-kHz step) Frequency range 87.5 MHz to 108.0 MHz (100-kHz step) Antenna terminals 75 Ω (unbalanced)

Amplitude Modulation (AM)

Frequency range 520 kHz to 1710 kHz (10-kHz step) Digital audio input

Optical digital input Sampling frequency

Optical terminal 32 kHz, 44.1 kHz, 48 kHz Phone iack

Terminal Stereo, 3.5 mm (1/8") jack

DISC SECTION

Discs played [8 cm (3") or 12 cm (5")]

- (1) DVD (DVD-Video)
- (2) DVD-RAM (DVD-VR, MP3*2,5, JPEG*4,5)
- (3) DVD-R (DVD-Video, DVD-VR, MP3*2,5, JPEG*4,5)
- (4) DVD-R DL (DVD-Video, DVD-VR)
- (5) DVD-RW (DVD-Video, DVD-VR, MP3*2,5, JPEG*4,5)
- (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)
- *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 and picture contents and groups: 4000 audio and picture contents and 400 groups.

Pick up

Wavelength (DVD/CD) Laser power (DVD/CD)

655/785 nm U.S.A. CLASS II/CLASS I CLASS 1/CLASS 1M

Audio output (Disc)

Number of channels

5.1 ch (FL, FR, C, SL, SR, SW)

VIDEO SECTION

Video system 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 $0.7 \text{ Vp-p } (75 \Omega)$ Pin jack (Y: green, PB: blue, PR: red) (1 system)

Terminal **HDMI AV output**

Terminal 19-pin type A connector **HDAVI** Control This unit supports "HDAVI Control 3" function.

SPEAKER SECTION

PT660 Front speakers SB-HF660

Type 1 way, 1 speaker system (Bass reflex) Speaker unit(s) Impedance 3 Ω 6.5 cm (21/2") Cone type Full range 125 W*6 (Max) Input power (IEC) Output sound pressure 80 dB/W (1.0 m) Frequency range 86 Hz to 25 kHz (-16 dB) 98 Hz to 22 kHz (-10 dB)

Dimensions (W×H×D) 92 mm×272 mm×95 mm $(3^5/8'' \times 10^{23}/32'' \times 3^3/4'')$

Mass [Weight] 0.9 kg (1.95 lbs)

PT660 Surround speakers SB-HS660

1 way, 1 speaker system (Bass reflex) Type Speaker unit(s) Impedance 3 Ω 6.5 cm (21/2") Cone type Full range Input power (IEC) 125 W^{±6} (Max) Output sound pressure 80 dB/W (1.0 m) Frequency range 95 Hz to 25 kHz (-16 dB)

120 Hz to 22 kHz (-10 dB) Dimensions (W×H×D) 92 mm×142 mm×95 mm $(3^5/8'' \times 5^{19}/32'' \times 3^3/4'')$

0.6 kg (1.32 lbs)

4.7 kg (10.4 lbs)

Mass [Weight]

PT660 Center speaker SB-HC660

Type 1 way, 2 speaker system (Bass reflex) Speaker unit(s) Impedance 6 Ω 1. Full range 6.5 cm (21/2") Cone type 2. Full range 6.5 cm (21/2") Cone type 250 W*6 (Max) Input power (IEC) Output sound pressure 82 dB/W (1.0 m)

80 Hz to 25 kHz (-16 dB) Frequency range 96 Hz to 22 kHz (-10 dB) Dimensions (W×H×D) 270 mm×94 mm×95 mm

 $(10^5/8" \times 3^{11}/18" \times 3^3/4")$ Mass [Weight] 1.3 kg (2.9 lbs)

PT660 PT754 Subwoofer SB-HW560

1 way, 1 speaker system (Kelton type) Type Speaker unit(s) Impedance 6 Ω 1. Woofer 16 cm (61/2") Cone type 2. Passive Radiator 25 cm (10") 250 W (Max) Input power (IEC) Output sound pressure 78 dB/W (1.0 m)

Frequency range 35 Hz to 200 Hz (-16 dB) 40 Hz to 198 Hz (-10 dB) Dimensions (W×H×D)

181 mm×361 mm×315 mm $(7^{1/8}" \times 14^{7/32}" \times 12^{13/32}")$

Mass [Weight] PT754 Front speakers SB-HF760

1 way, 1 speaker system (Bass reflex) Type Speaker unit(s) Impedance 3 Ω Full range 6.5 cm (21/2") Cone type Input power (IEC) 125 W*6 (Max)

Output sound pressure 80 dB/W (1.0 m) Frequency range 86 Hz to 25 kHz (-16 dB) 98 Hz to 22 kHz (-10 dB)

Dimensions (W \times H \times D) 252 mm×1123 mm×235 mm $(9^{29}/_{32}" \times 44^{7}/_{32}" \times 9^{1}/_{4}")$ Mass [Weight] 2.4 kg (5.2 lbs)

PT754 Surround speakers SB-HS760

1 way, 1 speaker system (Bass reflex) Type Speaker unit(s) Impedance 3 Ω 6.5 cm (21/2") Cone type Full range Input power (IEC) 125 W*6 (Max) 80 dB/W (1.0 m) Output sound pressure Frequency range 95 Hz to 25 kHz (-16 dB) 120 Hz to 22 kHz (-10 dB) Dimensions (W×H×D) 92 mm×142 mm×95 mm $(3^5/8'' \times 5^{19}/32'' \times 3^3/4'')$ Mass [Weight] 0.6 kg (1.32 lbs)

PT754 Center speaker SB-HC760

2 way, 2 speaker system (Bass reflex) Type Speaker unit(s) Impedance 6 \O 1. Full range 6.5 cm (21/2") Cone type 2. Full range 6.5 cm (21/2") Cone type 250 W*6 (Max) Input power (IEC) Output sound pressure 82 dB/W (1.0 m) Cross over frequency 5 kHz 80 Hz to 25 kHz (-16 dB) Frequency range 96 Hz to 22 kHz (-10 dB) Dimensions (W×H×D) 270 mm×94 mm×95 mm (105/8"×311/16"×33/4") Mass [Weight] 1.3 kg (2.9 lbs)

GENERAL

 Power supply
 AC 120 V, 60 Hz

 Power consumption
 Main unit
 135 W

 Dimensions (W×H×D)
 430 mm×63 mm×327 mm

 (1615/16"×215/32"×127/6")
 Main unit
 3.7 kg (8.2 lbs)

Power consumption in standby mode

approx. 0.3 W

Note

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

Manufactured under license from Dolby Laboratories.

Dolby, Pro Logic, and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS Digital Surround" are registered trademarks of DTS.

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

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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

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HDAVI Control™ is a trademark of Matsushita Electric Industrial Co., Ltd.

VIERA Link™ is a trademark of Matsushita Electric Industrial Co., Ltd.

EZ Sync™ is a trademark of Matsushita Electric Industrial Co., Ltd.

iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

User memo:

DATE OF PURCHASE
DEALER NAME
DEALER ADDRESS
TELEPHONE NUMBER

The model number and serial number of this product can be found on either the back or the bottom of the unit.

Please note them in the space provided below and keep for future reference.

MODEL NUMBER ______SERIAL NUMBER

^{*6} Rating with Low-cut filter equipped Amplifier

Limited Warranty (ONLY FOR U.S.A.)

Panasonic Consumer Electronics Company, Division of Panasonic Corporation of North America One Panasonic Way Secaucus, New Jersey 07094 Panasonic Puerto Rico, Inc. Ave. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Panasonic Audio Products Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Puerto Rico, Inc. (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Product or Part Name	Parts	Labor
Audio Products (except items listed below)	One (1) year	One (1) year
USB Reader-Writer, Personal Computer Card Adapters (in exchange for defective item)	One (1) year	Not Applicable
Accessories: Headphones, Cartridges,	Ninety (90)	Ninety (90)
Microphones, Adapters	days	days
Rechargeable Batteries, DVD-R/-RAM	Ten (10)	Not
Discs (in exchange for defective item)	days	Applicable
SD Memory Cards, Rechargeable Battery	Ninety (90)	Not
Packs (in exchange for defective item)	days	Applicable

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry-in or mail-in your product during the warranty period. If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

Carry-in or Mail-in Service

For Carry-In or Mail-In Service in the United States call 1-800-211-PANA (1-800-211-7262) or visit Panasonic web site: http://www.panasonic.com For assistance in Puerto Rico call Panasonic Puerto Rico, Inc. (787)-750-4300 or fax (787)-768-2910.

Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, travel to and from the servicer, loss of media or images, data or other memory content. The items listed are not exclusive, but are for illustration only.) ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

Customer Services Directory

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Servicenter; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:

http://www.panasonic.com/consumersupport

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

1-800-211-PANA (7262),

Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

For hearing or speech impaired TTY users, TTY: 1-877-833-8855

Accessory Purchases

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at:

http://www.pstc.panasonic.com

or, send your request by E-mail to:

<u>npcparts@us.panasonic.com</u>

You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday - Friday 9 am to 9 pm, EST.)

Panasonic Service and Technology Company

20421 84th Avenue South, Kent, WA 98032

(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

For hearing or speech impaired TTY users, TTY: 1-866-605-1277

Service in Puerto Rico

Panasonic Puerto Rico, Inc.

Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985 Phone (787)750-4300, Fax (787)768-2910

OTYDOA

PANASONIC PRODUCT - LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship and agrees to remedy any such defect for a period as stated below from the date of original purchase.

Technics Audio Product

Panasonic Portable / Clock Radio (without Tape, CD, MD)

Panasonic Audio / SD Audio Product

Panasonic DVD Product

Panasonic Combination DVD Player / VCR

Panasonic Combination DVD Recorder / VCR

Accessories including rechargeable batteries

One (1) year, parts and labour

Ninety (90) days

LIMITATIONS AND EXCLUSIONS

This warranty does not apply to products purchased outside Canada or to any product which has been improperly installed, subjected to usage for which the product was not designed, misused or abused, damaged during shipping, or which has been altered or repaired in any way that affects the reliability or detracts from the performance, nor does it cover any product which is used commercially. Dry cell batteries are also excluded from coverage under this warranty.

This warranty is extended to the original end user purchaser only. A purchase receipt or other proof of date of original purchase is required before warranty service is performed.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

WARRANTY SERVICE

DAMAGES.

FOR PRODUCT OPERATION ASSISTANCE, please contact:

Our Customer Care Centre: Telephone #: (905) 624-5505

> 1-800 #: 1-800-561-5505 Fax #: (905) 238-2360

Email link: "Customer support" on www.panasonic.ca

FOR PRODUCT REPAIRS, please locate your nearest Authorized Servicentre at www.panasonic.ca:

Link: "Servicentres™ locator" under "Customer support"

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

Carefully pack and send prepaid, adequately insured and preferably in the original carton. Include details of the defect claimed, and proof of date of original purchase.

Accessories



Please check and identify the supplied accessories. Use numbers indicated in parentheses when asking for replacement parts. (Product numbers correct as of December 2007. These may be subject to change.)

Only for U.S.A.: To order accessories, refer to "Accessory Purchases" on page 38. For other areas: To order accessories, call the dealer from whom you made your purchase.

☐ 1 Remote control (N2QAYB000210)



2 Remote control batteries



☐ 1 Video cable (K2KA2BA00001)



☐ 1 AC power supply cord (K2CB2CB00021)



1 AM loop antenna (N1DAAAA00002)



☐ 1 FM indoor antenna (RSA0007-M)



1 Sheet of speaker cable stickers PT754



2 Speaker cables

PT754 -[REEX0860E-L (Blue)]

-[REEX0868E-L (Gray)]



1 Speaker cable PT754 (REEX0858)



2 Set of pipes (with cable)

PT754

– [RYBX0182-K (White)] -[RYBX0183-K (Red)]



2 Bases PT754 (RYBX0176-K)



8 Screws

PT754 (XTN5+10FFJK)



4 Small Screws PT754 (XTB3+8JFJK)



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.**

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.

-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.

CAUTION	- LASER RADIATION WHEN OPEN. DO NOT STATE INTO BEAM.	FDA 21 OFR / Class
CAUTION	 CLASS 1M VISIBLE AND INVISIBLE LASER RADIATION WHE DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. 	
VARNING	 KLÁSS 1M SYNLUS OCH OSYNLUG LASERSTRÁLNING NÄR BETRAKTA EL STRÁLEN DIREKT GENOM OPTISKT INSTRU 	
FORSIGTIC	- SYNLIG OG USYNLIG LASERSTRÅLING KLASS 1M, NÅR LA ÅBENT, UNDGÅ AV SE LIGE PÅ MED OPTISKE INSTRUMEN	
VARO!	 AVATTAESSA OLET ALTTIINA LUCKAN 1M NÁKYVÁÁ JA NÁ LASERSÁTEÍLYÁ, ÁLÁ KATSO ÖPTÍSÉLLA LAÍTTEELLA SUC 	
VORSICHT	 SICHTBAHE UND UNSICHTBAHE LASERSTRAHLUNG KLAS GEÖFFMET, NICHT DIREKT MIT OPTISCHEN INSTRUMENT 	
ATTENTION	 HAVONNEMENT LASER VISIELE ET INMISIELE, GLASSE IN NE PAS REGARDER DIRECTEMENT À L'AIDE D'INSTRUMEN 	L EN CAS D'OLAVERTURE. ATS D'OPTIQUE,
注章	ここを開くと可視及び不可視レーザ光が出 ビームを見たり、触れたりしないでくださ	ます。 い。
注案	 打开河有可是及不可見級光報期,避免免埠票制。 GB7241,1-2001/3B 3 	A ROLXSOO7S

(Inside of product)

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