

Owner's Manual <Operations> DVD Home Theater Sound System

Model No. SC-XH105





Firmware updates

Panasonic is constantly improving the unit's firmware to ensure that our customers are enjoying the latest technology. Panasonic recommends updating your firmware as soon as you are notified. For details, refer to "Firmware updates" (⇔ 7) or

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

Thank you for purchasing this product.

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

If you have any questions, visit : www.panasonic.com/support

Register online at www.panasonic.com/register (U.S. customers only)

Please also read through the "Owner's Manual <Setup>".

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.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 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.
- 9 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.
- 11 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.

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.

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 Two Riverfront Plaza, Newark, NJ 07102-5490 Support Contact: http://www.panasonic.com/contactinfo

Precautions

WARNING

Unit

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

AC power supply cord

 The power plug is the disconnecting device. Install this unit so that the power plug can be unplugged from the socket outlet immediately.

Speaker

To prevent injury, this apparatus must be securely attached to the wall in accordance with the installation instructions.

Small object

Keep the batteries out of reach of children to prevent swallowing.

CAUTION

Unit

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

Placement

- To reduce the risk of fire, electric shock or product damage.
- Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure this unit is well ventilated.
- Do not obstruct this unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.

Speaker

• Use only supplied speakers

The main unit and supplied speakers are to be used only as indicated in this Owner's Manual. 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.

- Hold the speaker firmly to avoid injury by dropping the speaker when carrying.
- You can damage your speakers and shorten their useful life if you play sound at high levels over extended periods.
- Do not touch the front area of the speakers. Hold by the sides.
- Place speakers on flat, secure surfaces.To avoid injury by falling or dropping the speaker, place the
- speaker cables with care not to stumble or hook.Do not stand on the speaker. Be cautious when children are near.

Batteries

Mishandling of batteries can cause electrolyte leakage and may cause a fire.

- Danger of explosion if battery is incorrectly replaced. Replace only with the type recommended by the manufacturer.
- When disposing of the batteries, please contact your local authorities or dealer and ask for the correct method of disposal.
- Do not mix old and new batteries or different types at the same time.
- Do not heat or expose to flame.
- Do not leave the battery(ies) in a car exposed to direct sunlight for a long period of time with doors and windows closed.
- Do not take apart or short circuit.
- Do not recharge alkaline or manganese batteries.
- Do not use batteries if the covering has been peeled off.

Remove batteries if you do not intend to use the remote control for a long period of time. Store in a cool, dark place.

To dispose or transfer this unit

The unit may keep the user settings information in the unit. If you discard this unit either by disposal or transfer, then follow the procedure to return all the settings to the factory presets to delete the user settings. (\Rightarrow 16, "To return all settings to the factory preset.")

The operation history may be recorded in the memory of this unit.

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.

Unit and media care

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.

Clean discs



Wipe with a damp cloth and then wipe dry with a dry cloth.

Disc handling precautions

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

Table of contents

IMPORTANT SAFETY INSTRUCTIONS2	
Precautions	

Getting started

Accessories4
Package contents
Media information
Setting up the system7
Firmware updates7
Control reference guide

Basic operations

Enjoying TV with the speakers of the

system10
Playback
"HDMI CEC" 11
Listening to the Radio
Changing the sound settings12

Advanced operations

Option menu	
Setup menu	
Speaker installation option15	

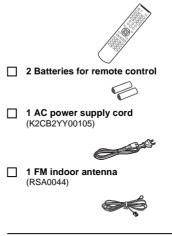
Reference

Troubleshooting guide
Specifications
Limited Warranty (ONLY FOR U.S.A.) 19
IndexBack Cover

Accessories

Check the supplied accessories before using this unit.

- 1 Remote control
 - (N2QAYB000974)

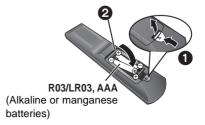


Ш

- Product numbers are provided in this Owner's Manual correct as of March 2014. These may be subject to change.
- Do not use AC power supply cord with other equipment.

Using the remote control

Insert the batteries to the terminal so that it (+ and -) matches those in the remote control.



Package contents

Check the package contents before using this unit.

Main unit (SA-XH105) FRONT (SB-HF3010) CENTER (SB-HF3010) CENTER (SB-HC3010)

> SUBWOOFER (SB-HW3010)



Media information

Playable media

DVD-Video	Video
DVD-R	Video, Xvid, MOV,
DVD-R DL	JPEG, MP3
DVD-RW	Video
+R/+RW/+R DL	_
Music CD	Music [CD-DA],
	VCD, SVCD
CD-R	Xvid, JPEG, MP3,
CD-RW	Music [CD-DA],
	VCD, SVCD
USB devices	Xvid, FLV, MOV,
(up to 2 TB)	JPEG, MP3

Types of discs that cannot be played by this unit

Any other disc that is not specifically supported or previously described.

- Blu-ray Discs
 HD DVD
- DVD-RAM
- WMA discs
 DivX discs
- Super Audio CD
 Photo CD
- AVCHD discs
- DVD-Audio
- See page 18 for more information on the types of content that can be played.

Region management information

The unit can playback DVD-Video discs of the following regions codes, including "ALL": Example:



Finalize

Any DVD-R/RW/R DL, +R/+RW/+R DL and CD-R/RW that are recorded by a recorder need to be finalized by the recorder to play on this unit. Please refer to the recorder's owner's manuals.

Music CD

- Operation and sound quality of CDs that do not comply with CD-DA specifications (copy control CDs, etc.) cannot be guaranteed to work.
- 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.

USB devices

- This unit does not guarantee connection with all USB devices.
- This unit does not support USB device charging.
- FAT16, FAT32, and NTFS file systems are supported.
- This unit supports USB2.0 High Speed.
- This unit supports an HDD formatted in FAT32 and NTFS. If the HDD is not recognized, the power to the HDD may not be supplied. Supply power from an external source.

- It may not be possible to play the above media in some cases due to the type of media, the condition of the recording, the recording method, and how the files were created.
- The producers of the disc can control how discs are played, so you may not always be able to control play as described in this Owner's Manual. Read the disc's instructions carefully.

Setting up the system

Follow the "Owner's Manual <Setup>" to set up the system first.

Precautions

Speakers

- Keep your speakers at least 10 mm (¹³/₃₂") away from the system for proper ventilation.
- For optional wall mount, refer to page 15.
- When you place all the speakers in a row at the front, set "5.1ch Front Layout" to "On". (⇒ 14)

Center speaker

 Put it on a rack or shelf not to interfere with the TV's various sensors (ambient light, etc.).
 Vibration caused by the speaker can disrupt the picture if it is placed directly on the TV.

Surround speakers

• Place the speakers at the same height or higher than ear level.

HDMI

 Use the ARC* compatible High Speed HDMI cables. Non-HDMI-compliant cables cannot be utilized.

It is recommended that you use Panasonic's HDMI cable. When outputting 1080p signal, please use HDMI cables 5.0 meters (16.4 ft.) or less.

ARC is an abbreviation of Audio Return Channel, also known as HDMI ARC. This feature allows a home theater system to receive and play audio from the TV through a single HDMI cable without additional wiring.

VIDEO OUT

• Do not make the video connections through the VCR.

Due to copy guard protection, the picture may not display properly.

AC power supply cord

 This unit consumes a small amount of AC power (⇒ 18) even when turned off in standby mode. For the purpose of energy conservation, the unit should be disconnected if you will not be using it for extended period of time.

Firmware updates

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

You can download the latest firmware from the following website and burn it to a CD-R to update the firmware.

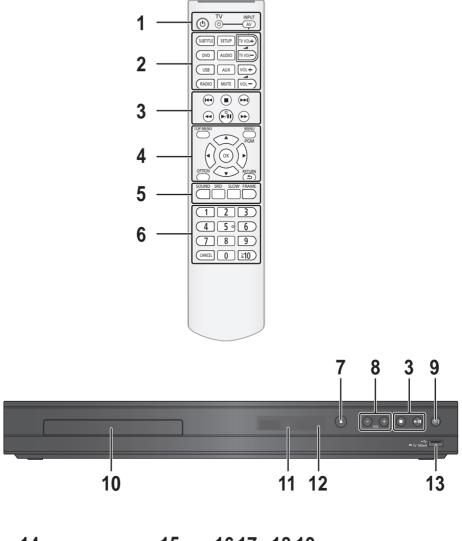
http://panasonic.jp/support/global/cs/

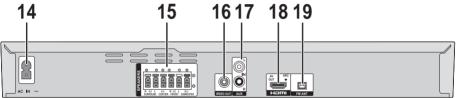
(This site is in English only.)

DO NOT DISCONNECT the unit from the AC power or perform any operation while the update is in process.

After the firmware is installed, "donE" will be displayed on the unit's display.

Control reference guide





Getting started

1 [ወ] Turn the unit on and off பரு TV1 Turn the TV on and off **IAV. INPUT1** Switch the input select of TV 2 [SUBTITLE] Change the subtitle settings IDVDI. IUSBI. IRADIOI. IAUXI Select an audio or video source [SETUP] Show Setup menu (⇒ 13) [AUDIO] Change the audio channel number or soundtrack language. etc. [MUTE] Mute the sound "MUtF" flashes on the unit's display, while the function is on. • To cancel, press the button again or adjust the volume. • Muting is canceled if the unit is turned off. ITV VOL + -1Adjust the volume of TV [VOL + - 1]Adjust the volume of the main unit 3 [▶/II] (Play/Pause) Start or pause playback []] (Stop) Stops playback and remembers the resume point (\Rightarrow 10) [|**44**]/[**bb**|](Skip) Skip to the title, chapter or track [◀◀] / [▶▶] (Search) Start fast reverse or fast forward 4 [TOP MENU] Show Top Menu [MENU]/[PGM] Show Menu / Register radio broadcasts (⇒ 11) / Set the playback order of music tracks (1) Press $[\blacktriangle, \nabla, \triangleleft, \triangleright]$ to select the item. (2) Press [0] to [9] to specify the order. To cancel: Press [CANCEL]. (3) Press $[\blacktriangle, \lor, \triangleleft, \triangleright]$ to select "PLAY". To clear the whole program: Press $[\blacktriangle, \nabla, \triangleleft, \triangleright]$ to select "CLEAR". ④ Press [OK].

[▲. ▼. ◀. ▶1 Move the highlight for selection **IOK1** Confirm the selection [OPTION] Show Option menu (\Rightarrow 12) **IRETURN** 1 Return to previous screen 5 [SOUND] Set the sound effects (\Rightarrow 12) [SRD] Set the surround effects (\Rightarrow 12) [SLOW] Start slow motion plavback [FRAME] Play video frame-by-frame 6 Select title numbers, etc./Enter numbers [CANCEL1: Cancel 7 Open or close the disc tray (\Rightarrow 10) 8 Adjust the volume of the main unit 9 Standby/on switch ((b/l) 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. 10 Disc trav 11 Display Unit's display list (⇒ 17) 12 Remote control signal sensor Distance: Within approx. 7 m (23 feet). Angle: Approx. 20° up and down. 30° left and right **13** USB port (⇒ 10) 14 AC IN terminal 15 Speaker terminals 16 VIDEO OUT terminal 17 AUX terminal 18 HDMI AV OUT (ARC) terminal 19 FM radio antenna terminal

Enjoying TV with the speakers of the system

When the system is connected to the HDMI terminal of an ARC-compatible TV, the speakers of the system output the sound of the TV. If you are using other connection methods, such as one that uses an audio cable, follow the steps below.

Press [AUX].

Q

• Reduce the volume on the TV to its minimum, and then adjust the volume of the main unit.

Playback

- 1 Turn on the TV and select the appropriate video input.
- 2 Press [也].
- 3 Insert the media.



• When inserting a media item, ensure that it is facing the correct way, which is the right side facing up.

4 Press [DVD] or [USB].

Playback starts depending on the media.

5 Select the item to play and press [OK].

Repeat this step if necessary. (JPEG only)

- If you press [>/II] during picture playback, a slideshow will start.
- If the media contains a music file, the music will also be played back during picture playback.

Q

- It is not possible to play back MPEG2 videos which have been dragged and dropped or copied and pasted to the media.

Stop

Press [I].

The stopping point is memorized.

Resume play function

Press [>/II] to restart from this point.

• The point is cleared if the media is removed.

"HDMI CEC"

This unit supports "HDMI CEC" (Consumer Electronics Control) function.

See the owner's manual for connected equipment for operational details.

Preparation

Set "HDMI CEC" to "On" (⇔ 13). (The default setting is "On".)

Power on link

When the unit starts playback, the TV will automatically turn on and the screen of the unit will be displayed.

Power Off Link

All connected "HDMI CEC" equipment automatically turns off when you switch the TV off.

Playing music continuously even after turning off the TV

Select "Video" in "Power Off Link" (⇒ 13)

The operation cannot be guaranteed on all HDMI CEC equipment.

Listening to the Radio

You can preset up to 30 channels.

Tuning and presetting

Press [RADIO].

1



Select a radio broadcast

2 Press $[\blacktriangle]$ or $[\triangledown]$ to select the frequency.

- [▲]: Next frequency /
 [▼]: Previous frequency
- Press [◀], [▶] to start automatic tuning. Tuning stops when a station is found.

To preset the channel

3 Press [PGM].



- 4 Press [I◄] or [►►I] to select a channel number.
- 5 Press [OK].

Listening to a preset channel

- 1 Press [RADIO].
- 2 Press the number buttons to select the channel.

e.g., 01: [0] ⇒ [1]. 12: [1] ⇒ [2]. Alternatively, press [I◄◀] or [►►].

To erase all the preset channels

- 1 Press [RADIO].
- 2 Press and hold [PGM].
 - "ErASE" is flashing on the unit's display.
- 3 Press [OK].

Changing the sound settings

Sound Mode/Subwoofer Level

Sound Mode

Press [SOUND] to select the sound effect. Each time you press [SOUND], the sound effect changes.

- Flat / Heavy / Clear / Soft
- You can also change the setting by pressing
 [▲. ▼] while a sound effect is displayed.

e.g.,



- Subwoofer Level
- 1 Press [SOUND].
- 2 Press [◀, ▶] to select the settings.

You can adjust the amount of bass. - "SUB 1" to "SUB 4"

• Levels can be set by source.

Ш

• The sound effects may not be available or have no effect with some sources.

Surround Mode

Press [SRD] to select the surround effect.

Each time you press [SRD], the surround effect changes.

e.g.,



"StAndArd" (Standard)

Sound is output as it was recorded/encoded. Speaker output varies depending on the source.

STANDARD

"MULtl CHAnnEL" (Multi Channel Out)

You can enjoy sound from the front speakers, as well as the surround speakers even when playing stereo sources.

"MOVIE" (Dolby® Pro Logic II Movie)

Suitable for movie software, or the one recorded in Dolby[®] Surround.

"MUSIC" (Dolby® Pro Logic II Music)

Add 5.1-channel effects to stereo sources.

"StErEO" (Stereo)

You can play any source in stereo. Sound will be output to the front speakers and the subwoofer only.

Option menu

A variety of playback operations and settings can be performed through this menu.

Available options differ depending on the playing contents and the condition of the unit.

1 Press [OPTION].

e.g.,



2 Select an item and change the settings.

To exit the screen

Press [OPTION].

Info

The status messages give you information about what is currently being played.

- Depending on the media, if you press [OPTION] while the screen is displayed, more information will be displayed.
- Depending on media and contents, the display may change or not appear.

e.g., DVD-Video



A Elapsed time in the title

Random

Select whether or not to play randomly.

Zoom

Videos and pictures are magnified.

Repeat

Select the item that you want to repeat.

Subtitle

Change the subtitle settings.

Angle

Select the number of the angle.

Setup menu

Change the unit's settings if necessary. The settings remain intact even if you switch the unit to standby.

1 Press [SETUP].



2 Select an item and change the settings.

To exit the screen

Press [SETUP].

SYSTEM

TV System

Perform the setup so it matches the TV System of the connected TV.

Display Dim

Changes the brightness of the unit's display.

Screen Saver

This is to prevent image retention on the screen.

• When this is set to "On":

If a list of playback content is displayed and there is no operation for 10 minutes or more, the screen switches to Screen saver automatically.

• While playing and pausing, etc., this function is not available.

Sleep Timer

Set the sleep timer.

HDMI CEC

Set to use "HDMI CEC" function when connected to a device that supports "HDMI CEC".

Power Off Link

Select the desired power off link setting of this unit for HDMI CEC operation.

Video/Audio

When the TV is turned off, this unit will turn off automatically.

Video

When playing back audio only content, the unit will not turn off automatically.

Auto Standby

Switch the home theater to standby mode after 20 minutes of no activity when in disc or USB mode.

LANGUAGE

Choose the language for menus and on-screen messages.

Audio

Choose the language for audio.

Subtitle

Choose the language for the subtitle.

Menu

Choose the language for the disc menus.

AUDIO

HDMI Audio Out

This setting selects whether or not to output audio from HDMI.

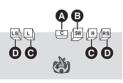
Digital Audio Out

Select the audio signal to output.

- Select "PCM", when the connected equipment cannot decode the respective audio format. This unit decodes the audio format and transmits to the connected equipment.
- If you do not make proper settings the audio may be static or noisy.

■ 5.1ch Front Layout

When you place all the speakers in a row at the front, adjust the settings to achieve optimum effects.



- A Center speaker
- Subwoofer
- **G** Front speakers
- Surround speakers

Surround Mode

Set the surround effects. (\Rightarrow 12)

Sound Mode

Set the sound effects. (⇒ 12)

Subwoofer Level

You can adjust the amount of bass. (\Rightarrow 12)

Speaker

Press [OK] to show the following settings:

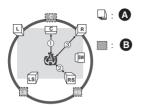
> Speaker Level

Set the volume of each speaker.

> Speaker Delay

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 either distance ① or ② is less than ③, measure the distance and adjust the time to make up for the difference (see the table below).



(1) (2) (3): Primary listening distance

- Actual speaker position
- Ideal speaker position

Delay time for the Center speaker

Subtract the distance (1) from (3)

Distance (Approx.)	Setting
34 cm	1.0 ms
68 cm	2.0 ms
102 cm	3.0 ms
136 cm	4.0 ms
170 cm	5.0 ms

Delay time for the Surround speakers Subtract the distance (2) from (3)

Distance (Approx.)	Setting
170 cm	5.0 ms
340 cm	10.0 ms
510 cm	15.0 ms

➤ Test Tone

Each speaker will output a test signal sound in sequence.

Delay Time

Synchronization between picture and sound is corrected by adjusting the delay time of the audio output.

Dynamic Range

You can listen at low volumes but still hear dialogue clearly.

Whisper Mode

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

VIDEO

Resolution

Select suitable picture quality with your TV. (Video recordings will be converted to, and output as, high-definition video.)

• This works only when the HDMI connection is being used.

TV Type

Set to match the type of TV connected.

Picture Settings

Adjust the picture settings, such as the brightness and contrast.

 If you select "Personal", you can adjust the brightness, contrast and other items separately.

OTHER

Rating

Set a rating level to limit DVD-Video play.

Password

Change the password for "Rating". You can enter the 4-digit password with the number buttons.

• The default password is "0000".

Black Level

(This works only for video output from the VIDEO OUT terminal.)

Select lighter or darker for adjusting the black level to the desired setting for picture enhancement.

Default

This returns all values in the Setup menu and the Option menu to the default settings, except for some settings of ratings, on-screen language, etc.

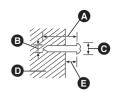
Speaker installation option

Consult a qualified building contractor when attaching the speakers to a wall. Improper attachment may result in damage to the wall and speakers and personal injury.

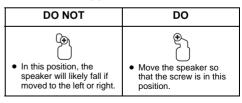
Attaching to a wall

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.
- 1 Drive a screw (not supplied) into the wall.
 - At least 30 mm
 - (1 ³/₁₆")
 - Ø 4.0 mm (⁵/₃₂″)
 - Ø 7.0 mm to
 Ø 9.4 mm
 (⁹/₃₂" to ³/₈")



- Wall or pillar
- 5.5 mm to 7.5 mm (⁷/₃₂" to ⁵/₁₆")
- 2 Fit the speaker securely onto the screw(s) with the hole(s).



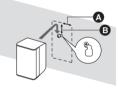
Screwing positions on the wall

Use the measurements indicated below.

 Leave at least 20 mm (²⁵/₃₂") of space above the speaker and 10 mm (¹³/₃₂") on each side to allow enough space for fitting the speaker.

▲ 41 mm (1 ⁵/8")

B 28 mm (1 ¹/₈")



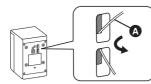
To prevent falling of the speakers

Secure the speaker.

Using the tie down area on the rear of the speaker and a cord (not supplied), secure the speaker to a wall anchor (not supplied) permanently attached to the wall.

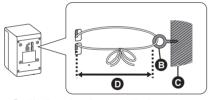
1 Thread a cord to the speaker.

 Use a cord of less than Ø 2.0 mm (³/₃₂"), which is capable of supporting over 10 kg (22 lbs).



A Cord (not supplied)

2 Thread a cord from the wall to the speaker and tie tightly.



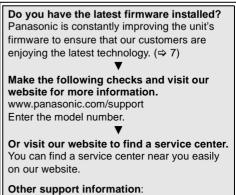
- Wall anchor (not supplied)
- Wall or pillar
- Approx.100 mm (4")

Troubleshooting guide

Before requesting service, please perform the following steps.

Unit does not respond to remote control or unit's buttons.

Disconnect AC power supply cord, wait 1 minute, then reconnect AC power supply cord.



"Customer Services Directory (United States)" (⇔ 19).

The following do not indicate a problem with this unit:

- Regular disc rotating sounds.
- Image disturbance during search.

General operation

To return to the factory defaults.

Select "Restore" in "Default" in the Setup menu. (⇒ 15)

To return all settings to the factory preset.

- Reset the unit as follows:
- ① Turn the unit on.
- ② Press [▲] to open the disc tray.
- ③ Press and hold [■] and [▶/II] on the main unit at the same time for more than 5 seconds.

You have forgotten your ratings password. You want to cancel the ratings level.

 The ratings level returns to the factory defaults.
 Restore the default settings following the steps described in "To return all settings to the factory preset.". (\$\Rightarrow\$ above)

This unit does not recognize the USB connection correctly.

- Disconnect and re-connect the USB cable. If it still does not recognize the connection, turn this unit off and on again.
- USB devices may not be recognized by this unit when connected using the following : – a USB hub
 - -a USB extension cable
- If you connect USB HDD to this unit, use the USB cable that is supplied with the HDD.

Picture

The images from this unit do not appear on the TV.

Picture is distorted. Jittering occurs.

- The "Resolution" setting is incorrect or the "TV System" setting of the unit and that of the TV do not match.
 - Restore the default settings following the steps described in "To return all settings to the factory preset.". (⇒ 16)
- PAL discs cannot be correctly viewed on an NTSC TV.
- If irregular coloring occurs on your TV, turn the TV off for about 30 minutes.
 If it persists, move the speakers further away from the TV.

Sound

No sound. Low volume. Distorted sound. Cannot hear the desired audio type.

Depending on the connected equipment, the sound may be distorted if this unit is connected with an HDMI cable.

Playback

Disc cannot be played.

➤ The disc is dirty. (⇒ 3)

Alternative subtitles cannot be selected.

You may not be able to use the Option menu to change the subtitles on some discs. Use the disc's menus to make changes.

Radio

Distorted sound or noise is heard.

> Adjust the position of the antenna.

A beat sound is heard.

Try to keep a certain amount of distance between the antenna and the TV.

Stations cannot be selected.

Press and hold [RADIO].

After a few seconds the display changes to show the current lowest frequency (8790). Continue to hold the button down. The lowest frequency changes (8750) and the step is changed.

Messages on the screen

Error Disc

- > You inserted an incompatible disc.
- > The disc may be upside down.

S This operation is not available.

Some operations are unsupported by the unit.

Unit's display list

This list only contains displays that are difficult to read.

Display	Reading	Display	Reading
OFF	OFF	OPEN	OPEN
LORd	LOAD	N 7076	MUTE
SEOP	STOP	SELUP	SETUP
d 15C	DISC	USB	USB
RUH	AUX	EFASE	ERASE
UPd	UPD (Update)	donE	DONE
ELL	ERR (Error)		No DISC, No PLAY, No READ, UNSUPPORT

Specifications

GENERAL

Power consumption	Approx. 38 W
Power consumption in standby mode	Approx. 0.5 W
Power supply	AC 120 V, 60 Hz
Dimensions (W×H×D)	$\begin{array}{l} 430 \text{ mm} \times 55 \text{ mm} \times 322 \text{ mm} \\ (16 \ ^{15}\!\!/_{16}'' \! \times \! 2 \ ^{3}\!\!/_{16}'' \! \times \! 12 \ ^{11}\!\!/_{16}'') \end{array}$
Mass (Weight)	Approx. 2.3 kg (5.1 lbs)
Operating temperature range	0 °C to 40 °C (32 °F to 104 °F)
Operating humidity range	35 % to 80 % RH (no condensation)
LASER Specification	Class I LASER Product Wave length: 785 nm (CDs)/ 655 nm (DVDs) Laser power: No hazardous radiation is emitted with the safety protection

AMPLIFIER SECTION

RMS TTL POWER OUTPUT	300 W		
	1 kHz, 30 % total harmonic distortion		
	CENTER:	50 W per ch (4 Ω) 50 W (4 Ω) 50 W per ch (4 Ω)	
	70 Hz, 30 % total harmonic distortion		
	SUBWOOFER:	50 W (8 Ω)	
FTC TTL POWER OUTPUT	80 W		
	300 Hz to 20 kHz, 1.0 % total harmonic distortion		
	FRONT:	10 W per ch (4 Ω) (LR both channels driven)	
	CENTER: SURROUND:	15 W (4 Ω) 15 W per ch (4 Ω)	
	40 Hz to 80 Hz, 1.0 % total harmonic distortion		
	SUBWOOFER:	15 W (8 Ω)	
Audio Input	$AUX \times 1$		

TERMINAL SECTION

USB slot	USB2.0
	1 system

FM TUNER SECTION

	87.9 MHz to 107.9 MHz (200 kHz step), 87.5 MHz to 108.0 MHz (100 kHz step)
Antenna terminals	1 with Antenna Cable (1.2 m)

VIDEO SECTION

Signal system	PAL/NTSC
Video output	Output level: 1.0 Vp-p (75 Ω)
	Output connector: Pin jack (1 system)
HDMI AV output*	Output connector: Type A (19 pin) 1 system

This unit supports "HDMI CEC" function.

SPEAKER SECTION

	Woofer CONE TYPE	Full range CONE TYPE	Super tweeter Piezo type
Front	-	6.5 cm (2 1/2")	-
Center	_	6.5 cm (2 1/2")	-
Surround	_	6.5 cm (2 1/2")	-
Subwoofer	16 cm (6 1/2")	-	-

	Dimensions (W×H×D)	Mass (Weight)
Front	$\begin{array}{c} 81 \text{ mm} \times 126 \text{ mm} \times 74 \text{ mm} \\ (3 \ {}^{3}\!/_{16}'' \! \times \! 4 \ {}^{31}\!/_{32}'' \! \times \! 2 \ {}^{29}\!/_{32}'') \end{array}$	Approx. 0.43 kg (0.95 lbs)
Center	81 mm × 126 mm × 74 mm (3 $^{3}/_{16}$ × 4 $^{31}/_{32}$ × 2 $^{29}/_{32}$)	Approx. 0.43 kg (0.95 lbs)
Surround	81 mm × 126 mm × 74 mm (3 $^{3}/_{16}$ × 4 $^{31}/_{32}$ × 2 $^{29}/_{32}$)	Approx. 0.43 kg (0.95 lbs)
Subwoofer	$\frac{156\text{mm}\times290\text{mm}\times263\text{mm}}{(6~^{5}\!/_{32}''\!\times\!11~^{13}\!/_{32}''\!\times\!10~^{11}\!/_{32}'')}$	Approx. 3.1 kg (6.84 lbs)

The impedance of speakers:

Front speakers, Center speaker, Surround speakers: 4 Ω.
 Subwoofer: 8 Ω.

Specifications are subject to change without notice.

File format

File format	Extension	Reference
Xvid	".AVI", ".avi" Subtitles text file ".SRT", ".srt", ".SUB", ".sub", ".TXT", ".txt"	 The video file and subtitles text file are inside the same folder, and the file names are the same except for the file extensions. Some Xvid files may not be played back correctly, depending on the video resolution, frame rate condition, subtitle format and so on.
FLV	".FLV", ".flv"	Some FLV/MOV files may
MOV	".MOV", ".mov"	not be played back correctly, depending on the video resolution, frame rate condition and so on.
JPEG	".JPG", ".jpg", ".jpeg"	 MOTION JPEG and Progressive JPEG are not supported. You may not be able to play back the file if you have edited the folder structure or the file name on a PC or other device.
MP3	".MP3", ".mp3"	This unit supports ID3 tags, but only titles, artist names and album names can be displayed.

 With certain recording states and folder structures, the play order may differ or playback may not be possible.

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

Panasonic Products Limited Warranty

Limited Warranty Coverage (For USA Only)

If your product does not work properly because of a defect in materials or workmanship. Panasonic Corporation of North America (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, (b) replace it with a new or a refurbished equivalent value product, or (c) refund your purchase price. The decision to remain: replace or refund will be made by the warrantor.

Product or Part Name	Parts	Labor
DVD Home Theater Sound System	1 Year	1 Year
All included Accessories (Except Non-Rechargeable Batteries)	90 Days	Not Applicable
Only Non-Rechargeable Batteries	10 Days	Not 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. This Limited Warranty excludes both parts and labor for non-rechargeable batteries, antennas, and cosmetic parts (cabinet). This warranty only applies to products purchased and serviced in the United States. This warranty is extended only to the original purchaser of a new product which was not sold "as is".

Mail-In Service--Online Repair Request

Online Repair Request

To submit a new repair request and for quick repair status visit our Web Site at www.panasonic.com/repair.

When shipping the unit, carefully pack, include all supplied accessories listed in the Owner's Manual, and send it prepaid, adequately insured and packed well in a carton box. When shipping Lithium Ion batteries please visit our Web Site at <u>www.panasonic.com/BatteryHandling</u> as Panasonic is committed to providing the most up to date information. Include a letter detailing the complaint, a return address and provide a daytime phone number where you can be reached. A valid registered receipt is required under the Limited Warranty.

IF REPAIR IS NEEDED DURING THE WARRANTY PERIOD. THE. PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/ PROFO FO PURCHASE INDICATING DATE OF PURCHASE. AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE. REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF. PURCHASE.

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, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Service Center 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".

LIMITED WARKANTOR IS NOT LIABLE FOR INCIDENTAL OR 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 or damage to media or images, data or other memory or

recorded content. The items listed are not exclusive, but 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 Service Center. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Aftairs 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 (United States)

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Service Center; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at: <u>http://www.panasonic.com/support</u> or, contact us via the web at: <u>http://www.panasonic.com/contactinfo</u>

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

Accessory Purchases (United States)

Purchase Parts, Accessories and Owner's Manual 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>proparts@w.spanasonic.com</u> You may also contact us directly at: 1-800-237-9080 (Fax Only) (Monday-Friday 9am-9pm EST) Panasonic National Parts Center 20421 84th Avenue South, Kent, WA 98032 (We accept Visa, MasterCard, Discover Card, American Express)

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

As of April 2014

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

User memo:

DATE OF PURCHASE	
DEALER NAME	
DEALER ADDRESS	
TELEPHONE NUMBER	

Index

Audio Changing audio......9 Language13 File format18 Firmware update7

• HDMI CEC 11

Language

Audio	3
Menu1	3
On-screen1	3
Soundtrack	9
Subtitle 9, 12, 1	3

ß	Radio 11 Repeat play 12 Restore Default 12 Settings 15 Resume play function 10
6	Subtitle
0	USB device 6

CAUTION- VISIBLE ANDINVISIVLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21CFR / CLASS II (IIa)

(Inside of product)

Manufactured under license from Dolby Laboratories. Dolby, Pro Logic, and the double-D symbol are trademarks of Dolby Laboratories.

For DTS patents, see http://patents.dts.com. Manufactured under license from DTS Licensing Limited. DTS, the Symbol, & DTS and the Symbol together are registered trademarks, and DTS 2.0+Digital Out is a trademark of DTS, Inc. © DTS, Inc. All Rights Reserved.

This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.

HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

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

"DVD Logo" is a trademark of DVD Format/Logo Licensing Corporation.







Panasonic Corporation of North America Two Riverfront Plaza, Newark, NJ 07102-5490

http://www.panasonic.com

© Panasonic Corporation 2014 Printed in China



72-XH105P-120B1



(En)