Panasonic

Owner's Manual Blu-ray Disc™ Home Theater Sound System

Model No. SC-BTT268





Dear customer

Thank you for purchasing this product.

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

Before connecting, operating or adjusting this product, please read the instructions completely. Please keep this manual for future reference.

If you have any questions contact: 1-800-211-PANA(7262)



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.

FCC Caution:To assure continued compliance, follow the attached installation instructions and use only shielded interface cables when connecting to peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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
- (1) This device may not cause naming 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-PANA (7262)

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.



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.

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.
- 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.

CAUTION -	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR/Class II (IIa
CAUTION -	CLASS 1M VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN, DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS, IECG0825-1, +A2/CLASS 11
ATTENTION -	RAYONNEMENT LASER VISIBLE ET INVISIBLE, CLASSE 1M, EN CAS D'OUVERTURE. NE PAS REGARDER DIRECTEMENT À L'AIDE D'INSTRUMENTS D'OPTIQUE
FORSIGTIG -	SYNLIG OG USYNLIG LASERSTRÅLING KLASSE 1M, NÅR LÅGET EF ÅBENT UNDGÅ AT SE LIGE PÅ MED OPTISKE INSTRUMENTER.
VARO -	AVATTAESSA OLET ALTTIINA LUOKAN 1M NÄKYVÄÄ JA NÄKYMÄTÖNT. LASERSÄTEILYÄ. ÄLÄ KATSO OPTISELLA LAITTEELLA SUORAAN SÄTEESEEN.
VARNING -	KLASS 1M SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄF ÖPPNAD. BETRAKTA EJ STRÅLEN DIREKT GENOM OPTISKT INSTRUMEN
VORSICHT -	SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG KLASSE 1M WENN ABDECKUNG GEÖFFNET. NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN.
注意 -	- 打开时有可见及不可见激光辐射。避免光束照射。
注意 -	ここを開くと可視及び不可視レーザー光が出ます。 ビームを見たり、触れたりしないでください。 VQL1V7

(Inside of product)

-If you see this symbol-

Information on Disposal in other Countries outside the European Union



This symbol is only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Table of contents

IMPORTANT	SAFFTY	INSTRUCTIONS	

Getting started	Radio
Accessory 5 Control reference guide 6 •Remote control 6 •Main unit (Front) 7	Listening to the Radio
•POWER-SAVING FEATURES 7	TV
•Main unit (Rear)	Enjoying TV with unit's speakers
•Speaker cable connection	Other devices
Connection to a TV	Using the iPod®/iPhone®
Network Easy Setting	Advanced operations
•Firmware updates	Enjoying VIERA CAST TM 29 Playback menu 30 Setup menu 3′ •Speaker settings 36
Playback	Optional speaker settings
Playing video contents	Speaker installation option 36
Useful functions	Reference
Enjoying 3D video 22 •3D settings 22 •Useful functions 22 Playing still pictures 23 •Useful functions 23 Playing music 24	Troubleshooting guide
•Playing a track in another folder	Index Back cove

 Operations in this Owner's Manual are described mainly with the remote control, the main unit if the controls are the same. 	but you can perform the operations on
System	SC-BTT268

System		SC-BTT268
Main unit		SA-BTT268
Speaker system	Front speakers	SB-HF270
	Center speaker	SB-HC270
	Surround speakers	SB-HS270
Subwoofer		SB-HW270

- Some accessories and external devices mentioned in this Owner's Manual that are not included with this product may not be on sale in certain regions.
- Please note that the actual controls and components, menu items, etc. of your Blu-ray Disc Home Theater Sound System may look somewhat different from those shown in the illustrations in this Owner's Manual.

Accessory

Check the supplied accessories before using this unit. For accessories of speakers, refer to page 10.

1 Remote control
(N2QAYB000629)

2 Batteries for remote control

☐ 1 Sheet of speaker cable sticker

1 FM indoor antenna (RSAX0002)

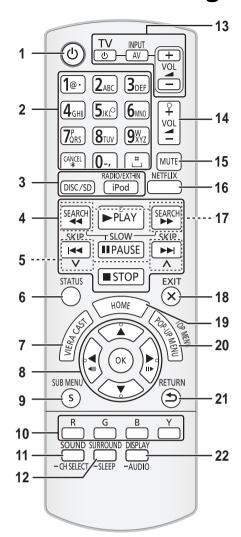


1 AC power supply cord (K2CB2CB00021)



- Product numbers provided in this Owner's Manual correct as of December 2010. These may be subject to change.
- Do not use AC power supply cord with other equipment.
- To order accessories, refer to "Accessory Purchases (United States and Puerto Rico)" on page 43.

Control reference guide



Remote control

- 1 Turn the unit on and off
- Select title numbers, etc./Enter numbers or characters
 (⇒ 29)

[CANCEL]: Cancel

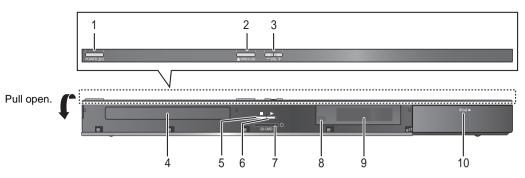
- 3 Select the source (⇒ 18)
- 4 Basic playback control buttons (⇒ 20)
- 5 Select preset radio stations
- 6 Show status messages (⇒ 20)
- 7 Display the Home screen of VIERA CAST (⇒ 29)
- 8 Selection/OK, Frame-by-frame (⇒ 20)
- 9 Show sub menu (⇒ 21)
- 10 These buttons are used when;
 - Operating a BD-Video disc that includes Java[™] applications (BD-J).
 - Operating contents of VIERA CAST (⇒ 29)
- 11 Set the sound mode (⇒ 19)/Select speaker channel (⇒ 19)
- 12 Select surround sound effects (⇒ 19)/Set the sleep timer
 - ① Press and hold [-SLEEP].
 - ② While "SLEEP $\times \times$ " is displayed, press [–SLEEP] several times to select the time (in minutes).
 - Timer selection is up to 120 minutes.
 - Select "OFF" when canceling the setting.
 - To confirm the remaining time Press and hold the button again.

13 TV operation buttons

[\circlearrowleft]: Turn the television on and off [AV, INPUT]: Switch the input select [+ - VOL]: Adjust the volume

- 14 Adjust the volume of the main unit
- 15 Mute the sound
 - "MUTE" 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.
- 16 Show NETFLIX screen
- 17 Select radio stations manually (⇒ 24)
- 18 Exit the menu screen
- 19 Show HOME menu (⇒ 18)
- 20 Show Pop-up menu/Top menu/Direct Navigator (⇒ 20)
- 21 Return to previous screen
- 22 Show Playback menu (⇒ 30)/Select audio (⇒ 20)

Main unit (Front)



1 Standby/on switch (POWER ₺/I) (⇒ 16)

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.

- 2 Open or close the disc tray (⇒ 18)
- 3 Adjust the volume of the main unit
- 4 Disc tray
- 5 Stop (⇒ 20)

- 6 Start play (⇒ 20)
- 7 SD card slot (⇒ 18)
- 8 Remote control signal sensor Distance: Within approx. 7 m (23 ft.) Angle: Approx. 20° up and down, 30° left and right
- 9 Display
- 10 Connect iPod/iPhone (⇒ 27)

POWER-SAVING FEATURES

The main unit is designed to conserve its power consumption and save energy.

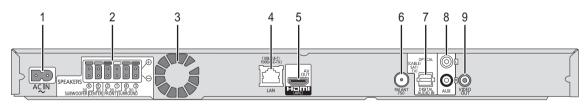
Automatic power-down function

The main unit will automatically switch to standby mode after 30 minutes if the main unit is inactive as follows.

e.g.

- -There is no audio signal from an external device.
- -Disc playback is stopped/paused.
- -iPod/iPhone playback is stopped/paused.
- The disc menu is displayed and play is not selected.
 (This function may not work depending on the application type of discs.)

Main unit (Rear)



- 1 AC IN terminal (⇒ 15)
- 2 Speaker terminals (⇒ 11)
- 3 Cooling fan
- 4 LAN port (⇒ 15)
- 5 HDMI AV OUT (ARC) terminal (⇒ 13)

- 6 FM radio antenna terminal (⇒ 11)
- 7 DIGITAL AUDIO IN terminal (⇒ 12, 13)
- 8 AUX terminal (⇒ 12)
- 9 VIDEO OUT terminal (⇒ 12)

Playable discs/Cards

Туре	Logo examples	Type detail	Playable contents (⇒ 40)
		BD-Video	Video
BD	Blu-ray Disc	BD-RE	Video JPEG/MPO (3D still picture)
		BD-R	Video
	VIDEO	DVD-Video	Video
	R R 4.7	DVD-R	Video AVCHD
DVD	R DL	DVD-R DL	MP3 JPEG/MPO (3D still picture)
	DVD R W	DVD-RW	Video AVCHD
	_	+R/+RW/+R DL	
	COMPACT DIGITAL AUDIO	Music CD	Music [CD-DA]
CD	_	CD-R CD-RW	Music [CD-DA] MP3 JPEG/MPO (3D still picture)
SD	S D N	SD Memory Card (8 MB to 2 GB) SDHC Memory Card (4 GB to 32 GB) SDXC Memory Card (48 GB, 64 GB) (Compatible with both mini and micro types) (as of December 2010)	MPEG2 AVCHD JPEG/MPO (3D still picture)

■ Discs that cannot be played in this unit

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

- DVD-RAM
- Super Audio CD
- Photo CD
- DVD-Audio
- Video CD and Super Video CD
- WMA discs
- DivX discs
- PAL discs
- HD DVD
- BD-Video discs recorded at a rate of 50 fields/sec

■ Region management information

BD-Video

This unit plays BD-Video marked with labels containing the region code "A".

Example:





DVD-Video

This unit plays DVD-Video marked with labels containing the region number "1" or "ALL". Example:







■ Finalize

DVD-R/RW/R DL, +R/+RW/+R DL and CD-R/RW recorded by a recorder, etc. needs to be finalized by the recorder to play on this unit. Please refer to the recorder's instructions.

■ BD-Video

This unit supports high bit rate audio (Dolby Digital Plus, Dolby TrueHD, DTS-HD High Resolution Audio and DTS-HD Master Audio) adopted in BD-Video.

Music CD

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

■ 3D

- 3D videos and 3D still pictures can be played back when this unit is connected to a 3D compatible TV using a High Speed HDMI Cable.
- 2D video can be enjoyed as 3D virtually. (⇒ 22)

SD card

 miniSD Cards, microSD Cards, microSDHC Cards and microSDXC Cards can be used, but must be used with an adaptor card. These are usually supplied with such cards, or otherwise customer provided.



- Keep the Memory Card out of reach of children to prevent swallowing.
- To protect the card's contents, move the record prevention tab (on the SD card) to "LOCK".
- This unit is compatible with SD Memory Cards that meet SD Card Specifications FAT12 and FAT16 formats, as well as SDHC Memory Cards in FAT32 format (Does not support long file name.) and SDXC Memory Cards in exFAT.
- If the SD card is used with incompatible computers or devices, recorded contents may be erased due to the card being formatted etc.
- Useable memory may be slightly less than the card capacity.

- 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.

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.

Clean the lens

• Use the lens cleaner (not supplied) to clean the unit's lens.

■ Clean discs

DO



DO NOT



Wipe with a damp cloth and then wipe dry.

■ Disc and card handling precautions

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

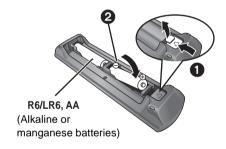
■ To dispose or transfer this unit

The unit may keep the user settings information in the unit. If you discard this unit either by disposal or transfer, then follow the procedure to return all the settings to the factory presets to delete the user settings. (⇒ 36, "To return all settings to the factory preset")

• The operation history may be recorded in the memory of this

Using the remote control

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



Point it at the remote control signal sensor on this unit. (⇒ 7)



Mishandling of batteries can cause electrolyte leakage which can damage items the fluid contacts and may cause a fire.

- 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 attempt to recharge alkaline or manganese batteries.
- Do not use batteries if the covering has been peeled off.

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

CAUTION

- Danger of explosion if battery is incorrectly replaced. Replace only with the type recommended by the manufacturer.
- When disposing the batteries, please contact your local authorities or dealer and ask for the correct method of disposal.

STEP 1: Preparing the STEP 2: Positioning speakers

Preparing cables and making connection

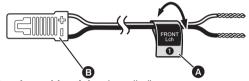


(REEX1266A: RED) (REEX1267A: WHITE) (REEX1268: GREEN) (REEX1269: GRAY) (REEX1270: BLUE)



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

e.g. Front speaker (L)



Speaker cable sticker (supplied)

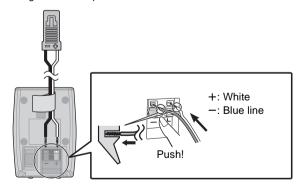
Connector

Speaker cable sticker	Color
① FRONT (L)	WHITE
② FRONT (R)	RED
③ SURROUND (L)	BLUE
④ SURROUND (R)	GRAY
⑤ CENTER	GREEN
6 SUBWOOFER	PURPLE

Be sure to match the number on each sticker with the connector color.

2 Connecting the speaker cables. Insert the wire fully, taking care not to insert beyond the wire insulation.

e.g. Surround speaker



- . Be careful not to cross (short-circuit) or reverse the polarity of the speaker wires as doing so may damage the speakers
- Don't use a front speaker as a surround speaker or vice versa. Verify the type of speaker with the label on the rear of the speaker before connecting the appropriate cable.
- To avoid injury by falling or dropping the speaker, place the speaker cables with care not to stumble or hook.
- Do not hold the speaker in one hand to avoid injury by dropping the speaker when carrying.

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.
- . Do not touch the front netted area of the speakers. Hold by the sides.

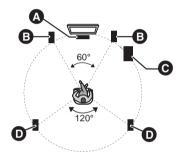
How you set up your speakers can affect the bass and the sound field.

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.



 Keep your speakers at least 10 mm (¹³/₃₂") away from the system for proper ventilation.



A Center speaker

- Put 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.
- Front speakers
- Subwoofer
- Surround speakers
 - Place the speakers at the same height or higher than ear

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.
- · Positioning speakers in front

It is possible to locate all the speakers in front of the listening position. However, the optimal surround sound effect may not be obtainable.

- · 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 36.

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.

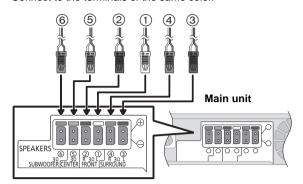
STEP 3: Connections

Turn off all equipment before connection and read the appropriate owner's manual.

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

Speaker cable connection

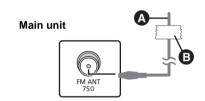
Connect to the terminals of the same color.



6 PURPLE
 5 GREEN
 2 RED
 WHITE
 4 GRAY
 3 BLUE
 Subwoofer
 Center speaker
 Front speaker (Rch)
 Surround speaker (Rch)
 Surround speaker (Lch)

Radio antenna connection

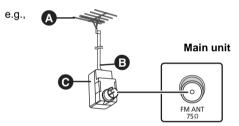
■ Using an indoor antenna



- A FM indoor antenna (supplied)
- Adhesive tape Affix this end of the antenna where reception is best.

■ Using an outdoor antenna

Use outdoor antenna if FM radio reception is poor.



- FM outdoor antenna [Using a TV antenna (not supplied)]
 - The antenna should be installed by a competent technician.
- **3** 75 Ω coaxial cable (not supplied)
- Antenna plug (not supplied)

Connection to a TV

• The basic connection is shown in the included Easy Setting Guide, however, there are more connection examples to optimize your system setting.

- . Do not make the video connections through the VCR.
- Due to copy guard protection, the picture may not be displayed properly.
- Turn off all equipment before connection.

OPTICAL IN

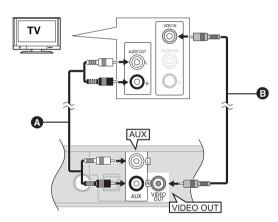
After making the digital audio connection, make settings to suit the type of audio from your digital equipment. (⇒ 20)

■ HDMI

The HDMI connection supports VIERA Link "HDAVI Control" (⇒ 26) when used with a compatible Panasonic TV.

- Please use High Speed HDMI Cables that have the HDMI logo (as shown on the back cover). 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.
 Recommended part number (High Speed HDMI Cable):
 RP-CDHS15 (1.5 m/4.9 ft.), RP-CDHS30 (3.0 m/9.8 ft.), RP-CDHS50 (5.0 m/16.4 ft.), etc.
- Audio will be output through the system's speakers when "Off" is selected in "HDMI Audio Output". (⇒ 33)

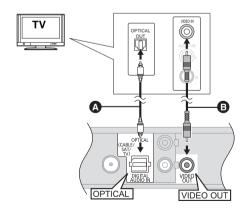
Connection for the standard picture and audio



To enjoy TV audio from this home theater system's speakers:

- 1 Connect the TV and the main unit with the Audio cable (not supplied).
- 2 Select "AUX" as a source (⇒ 18).
- A Audio cable (not supplied)
- S Video cable (not supplied)

Connection for the better audio



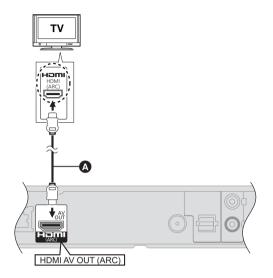
To enjoy TV audio from this home theater system's speakers:

- 1 Connect the TV and the main unit with the Optical digital audio cable (not supplied).
- 2 Select "DIGITAL IN" or "D-IN" as a source (⇒ 18).
- A Optical digital audio cable (not supplied)
- Video cable (not supplied)

Connection for the best picture and audio

- When connecting to a TV using an HDMI cable, check the HDMI terminal on the TV. If the HDMI terminal is labeled "HDMI (ARC)", you can connect the unit simply with a single HDMI cable.
- It is possible to playback 3D videos and 3D still pictures by connecting this unit with a 3D compatible TV.
- For details, refer to the operating instructions of your TV.

■ When the HDMI terminal on the TV is labeled "HDMI (ARC)"



What is ARC?

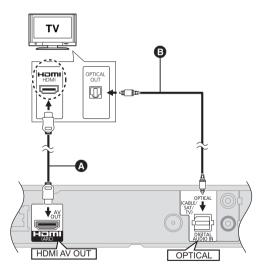
ARC is an abbreviation of Audio Return Channel, also known as HDMI ARC. It refers to one of the HDMI functions. When you connect the unit to the terminal labeled "HDMI (ARC)", the optical digital audio cable that is usually required in order to listen to sound from TV is no longer required, and TV pictures and sound can be enjoyed with a single HDMI cable.

To enjoy TV audio from this home theater system's speakers:

Select "ARC" as a source (⇒ 18).

A HDMI cable (not supplied)

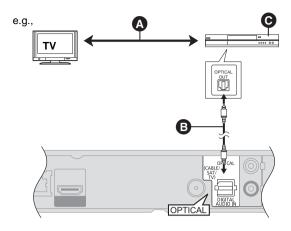
■ When the HDMI terminal on the TV is not labeled "HDMI (ARC)"



To enjoy TV audio from this home theater system's speakers:

- Connect the TV and the main unit with the Optical digital audio cable (not supplied).
- Select "DIGITAL IN" or "D-IN" as a source (⇒ 18).
- A HDMI cable (not supplied)
- Optical digital audio cable (not supplied)

Connection with Set Top Box, etc.



To enjoy TV audio from this home theater system's speakers:

- 1 Connect the STB and the main unit with the Optical digital audio cable (not supplied).
- 2 Select "DIGITAL IN" or "D-IN" as a source (⇒ 18).
- A Refer to the operating instructions of the respective devices for the optimal connections.
- Optical digital audio cable (not supplied)
- **⊙** Set Top Box (Cable/Satellite), etc.

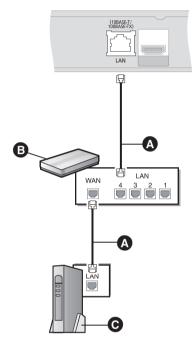
Connection to a broadband network

The following services can be used when this unit is connected to broadband.

- Firmware can be updated (⇒ 17)
- You can enjoy BD-Live (⇒ 21)
- You can enjoy VIERA CAST (⇒ 29)

For details about connection method, refer to the instructions supplied with the connected equipment.

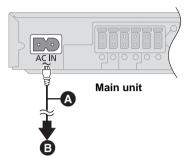
■ LAN cable connection



- A LAN Cable (not supplied)
- B Broadband router, etc.
- Use category 5 or above straight LAN cables (STP) when connecting to peripheral devices.
- Inserting any cable other than a LAN cable in the LAN terminal can damage the unit.

STEP 4: AC power supply cord connection

Connect only after all other connections are complete.



- AC power supply cord (supplied)
- (B) To a household AC outlet

Main unit

- This unit consumes a small amount of AC power, even when it is turned off.: approx. 0.4 W*
 - * When the "Quick Start" setting is "Off"

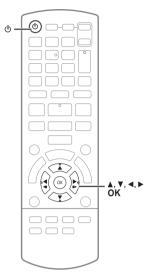
In the interest of power conservation, if you will not be using this unit for a long time, unplug it from the household AC outlet.

Install this unit so that the power cord can be unplugged from the socket outlet immediately if any problem occurs.

STEP 5: Easy setup

The Easy setup assists you to make necessary settings.

Follow the on-screen prompts to make basic settings for the system.



Preparation

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

1 Press [也].

Setup screen appears.

If this unit is connected to a Panasonic TV (VIERA) supporting HDAVI Control 2 or later via an HDMI cable, then setting information on the TV such as "On-screen Language" is acquired by this unit.

2 Follow the on-screen instructions and make the settings with [▲, ▼, ◄, ▶] and press [OK].

Language

Select the language used on menu screen.

TV Aspect

Select the aspect to suit your TV and preference.

Speakers position

Specify the positioning of the surround speakers.

Speaker check

Check if the connection to each speaker is valid.

Speaker Output

Make surround sound setting for speaker output.

Cinema Surround Plus

(Effective when the surround layout is selected in "Speakers position".)

The function creates the sound of virtual speakers to enhance the realistic surround feeling as if the sound comes from all directions.

TV Audio

Select the audio input connection from your TV, [item with "(TV)"].

Quick Start

Speed of startup from power off is increased.

3 Press [OK] several times to finish the "Easy setup".

After completing "Easy setup", you can perform "Network Easy Setting".



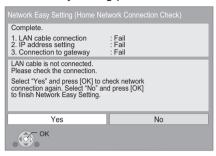
 You can perform this setup anytime by selecting "Easy setup" in the Setup menu. (⇒ 34)

Network Easy Setting

The configuration of your network is about to begin. If you failed to make the settings, refer to "When you experience problems with settings".

When you experience problems with settings

Network Easy Setting (Home Network Connection Check)



Display		Check the following
1. LAN cable connection	:Fail	 Connection of
2. IP address setting	:Fail	the LAN
3. Connection to gateway	:Fail	cables (⇒ 15)
1. LAN cable connection	:Pass	Connection
2. IP address setting	:Fail	and settings of
3. Connection to gateway	:Fail	the hub and router
1. LAN cable connection	:Pass	Settings of "IP
2. IP address setting	:Pass	Address /
3. Connection to gateway	:Fail	DNS Settings" (⇒ 34)

Network Easy Setting (Internet Connection Check)

: Fail(Error code: B019)	
code: B019)	
Please refer to the owner's manual for the cause of the error and the solution for it. Press [OK].	

Display	Check the following
Cannot find the server. (Error code: B019)	"Primary DNS" and "Secondary DNS" Settings of "IP Address / DNS Settings" (⇒ 34)
Failed to connect to the server. (Error code: B020)	 The server may be busy or the service may have been suspended. Please wait a few moments, and then try again. Settings of "Proxy Server Settings" (⇒ 34) and the router.

- · Refer to the operating instructions of the hub or router.
- You can perform this setup anytime by selecting "Network Easy Setting" in the Setup menu. (⇒ 34)
- You can redo these settings individually using "Network Settings". (⇒ 34)
- Please be aware that connecting to a network without encryption may result in the content of the communication being illegitimately viewed by a third party, or the leaking of data such as personal or secret information.

Reprogramming the remote control

If you have more than one Panasonic player/recorder and the remote control operates both products at once, you will need to change the remote control code on one product to prevent this occurrence. (⇒ 34, "Remote Control Code")

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.

This unit is capable of checking the firmware automatically when connected to the Internet via a broadband connection. When a new firmware version is available, the following message is displayed.

New firmware is available.
Please update firmware in Setup.

To update the firmware

Press [HOME] ⇒ select "Others" ⇒ [OK] ⇒ [OK] ("Setup") ⇒ select "Others" ⇒ [OK] ⇒ select "Firmware Update" ⇒ [OK] ⇒ select "Update Now" ⇒ [OK]

DO NOT DISCONNECT the unit from the AC power or perform any operation while the update takes place.

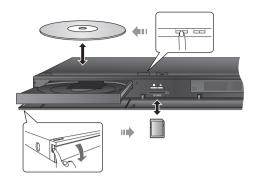
After the firmware is installed, "FINISH" will be displayed on the unit's display. Unit will restart and the following screen will be displayed.



- If downloading on this unit fails or this unit is not connected to the Internet, then 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.)
- To show the firmware version on this unit. (→ 34, "System Information")

 Downloading will require several minutes. It may take longer or may not work properly depending on the connection environment.
- If you do not want to check for the latest firmware version, set "Automatic Update Check" to "Off". (⇒ 34)

Inserting or removing media



- When inserting a media item, ensure that it is facing the right way up.
- While the reading indicator is displayed, do not turn off the unit or remove the media. Such action may result in loss of the media's contents.
- When removing the SD card, press on the center of the card and pull it straight out.

Selecting the source by the remote control

Button	Source
DISC/SD	Select disc drive or SD card drive BD/DVD or SD card (SD) (⇒ 20)
RADIO/EXT-IN iPod	Select iPod/iPhone, FM tuner or external audio as the source iPod (IPOD) (⇒ 27) FM Radio (FM) (⇒ 24) To enjoy sound from the TV (⇒ 25) AUX*1 ARC*1 DIGITAL IN*1(D-IN)
	To enjoy sound from other devices (⇒ 25) DIGITAL IN*2(D-IN)

HOME menu

Major functions of this unit can be operated from the HOME menu. **Preparation**

Turn on the television and select the appropriate video input on the television.

- 1 Press [也] to turn on the unit.
- 2 Press [▲, ▼, ◄, ▶] to select the item and press [OK].



- When a media is inserted, contents selection screen for that media is displayed.
- If there are any other items, repeat this step.
- To return to HOME menu, select "HOME" or press [RETURN] several times.

Videos/	Disc	Play back the contents.
Photos/		(⇒ 20, 23, 24)
Music	SD card	 When multiple contents
		are recorded, select the
		types of contents or the
		title.
Internet	Displays the Hom	e screen of VIERA CAST
Content	(⇒ 29)	
iPod	All	
	Music	(⇒ 27)
	\#.1	,
	Videos	
FM Radio	To enjoy the FM radio (⇒ 24)	
EXT IN	AUX*1	When using an Audio cable
LXIII	AUX	Which daing an Addio cable
	ARC*1	When using an HDMI cable
		(Available when using an
		ARC compatible TV)
	DIGITAL IN*1, 2	When using an Optical
		digital audio cable
Sound	Select sound quality (equalizer). (⇒ 19)	
Others	Setup	(⇒ 31)
Others	•	(\$31)
	SD Card	(⇒ 21)
	Management	
	Wallpaper	Changes the screen
		background of the HOME
		menu.

To show the HOME menu

Press [HOME].

- Items to be displayed may vary with the media.
- When the selector is switched, it may take time to playback the selected video and/or audio.
- *1 "(TV)" is displayed next to items set for TV AUDIO input.
- *2 "(CABLE/SATELLITE)" is displayed next to DIGITAL IN when set for CABLE/SATELLITE AUDIO input.

Enjoying sound effects from all speakers

Enjoying surround sound effects

1 Press [SURROUND] several times to select the effect.

STANDARD

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

MULTI-CHANNEL

You can enjoy sound from the front speakers, as well as the surround even when playing a 2-channel sound or non-surround sound.

MANUAL

 The selected effect will only be displayed on the main unit

2 While "MANUAL" is displayed, press [◀, ▶] and select the desired effect.

DOLBY PRO LOGIC II MOVIE

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

DOLBY PRO LOGIC II MUSIC

Adds 5.1-channel effects to stereo sources.

7.1CH VIRTUAL SURROUND

You can enjoy 6.1/7.1-channel surround-like effect using 5.1-channel speakers.

SUPER SURROUND

You can enjoy sound from all speakers with stereo sources.

2CH STEREO

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

 When you set to "7.1CH VIRTUAL SURROUND", "SUPER SURROUND" and "2CH STEREO", "Cinema Surround Plus" (⇒ 31) is not activated.

Adjusting speaker level during play

- Press and hold [-CH SELECT] to activate the speaker setting mode.
- Press [-CH SELECT] several times to select the speaker. Each time you press the button:

L R: Front speaker

(left and right: only the balance is adjustable.)

 Press [◄, ►] to adjust the balance of the front speakers.

C: Center speaker

RS: Surround speaker (right)

LS: Surround speaker (left)

SW: Subwoofer

- The channels not included in the playing audio will not be displayed (subwoofer is displayed even if it is not included).
- ③ Press [▲] (increase) or [▼] (decrease) to adjust the speaker level for each speaker.
 -6 dB to +6 dB

Changing the sound modes

- ① Press [SOUND] several times to select the mode.
 - The selected mode will only be displayed on the main unit.
- ② While the selected mode is displayed

Press [◀, ▶] and select the desired setting.

EQUALIZER

You can select sound quality settings.

FLAT

Cancel (no effect is added).

HEAVY

Adds punch to rock.

CLEAR

Clarifies higher sounds.

SOFT

For background music.

SUBWOOFER LEVEL

You can adjust the amount of bass.

- 1 (Weakest effect) to 4 (Strongest effect)
- The setting you make is retained, and recalled every time you play the same type of source.

H.BASS

You can enhance low-frequency sound so that heavy bass sound can be heard clearly, even if the acoustics of your room are not optimal.

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

CENTER FOCUS

(Effective when playing audio containing center channel sound.)

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

WHISPER-MODE SURROUND

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

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

Playing video contents

BD DVD CD SD

1 Insert the media.

If the menu is displayed, press [OK] or $[\blacktriangle, \blacktriangledown, \blacktriangleleft, \blacktriangleright]$ to select the item. $(\Rightarrow 18)$

2 Press [▲, ▼] to select the title and press [OK].

When a message screen is displayed while playing back 3D compatible video software, play back in accordance with the instructions.

■ To show menus

You can show Top Menu, DIRECT NAVIGATOR or Pop-up Menu. Press [POP-UP MENU, TOP MENU].

Press [▲, ▼, ◄, ▶] to select the item and press [OK].

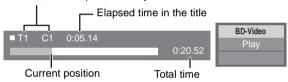
■ To show the status messages

While playing, press [STATUS].

The status messages give you information about what is currently being played. Each time you press [STATUS], the display information may change or will disappear from the screen.

e.g. BD-Video

T: Title, C: Chapter, PL: Playlist



- DISCS CONTINUE TO ROTATE WHILE MENUS ARE DISPLAYED. Press [INSTOP] when you finish to preserve the unit's motor and your television screen.
- Depending on media and contents, the display may change or may not appear.
- It is not possible to playback AVCHD and MPEG2 video which have been dragged and dropped, copied and pasted to the media.

Other operations during play

These functions may not work depending on the media and its contents.

Stop

Press [■STOP].

The stopped position is memorized.

Resume play function

Press [► PLAY] to restart from this position.

- The position is cleared if the tray is opened or you press
 STOP several times to display "STOP" on the unit's display.
- On BD-Video discs including BD-J, the resume play function does not work.

Pause

Press [IIPAUSE].

Press [■PAUSE] again or [► PLAY] to restart play.

Search/Slow-motion

Search

While playing, press [SEARCH◀◀] or ISEARCH▶▶1.

• Music and MP3: The speed is fixed to a single step.

Slow-motion

While paused, press [SEARCH◄◄] or [SEARCH▶▶].

 BD-Video and AVCHD: Forward direction [SEARCH▶▶] only.

The speed increases up to 5 steps.

Press [► PLAY] to revert to normal playback speed.

Skip

While playing or paused, press [◄◄] or [▶▶|].

Skip to the title, chapter or track you want to play.

• Each press increases the number of skips.

Frame-by-frame

While paused, press $[\blacktriangleleft]$ (\blacktriangleleft 1) or $[\blacktriangleright]$ (11 \blacktriangleright).

- Press and hold to change in succession forward or backward.
- Press [► PLAY] to revert to normal playback speed.
- BD-Video and AVCHD: Forward direction [▶] (▮▮▶) only.

Changing audio

- 1 Press and hold [-AUDIO] to activate the audio setting mode.
- 2 Press [-AUDIO] several times to select the audio.

You can change the audio channel number or soundtrack language, etc.

Selecting the type of audio from the DIGITAL AUDIO IN terminal

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

- ① Press [EXT-IN] several times to select "DIGITAL IN" (D-IN).
- ② Press and hold [-AUDIO] to activate to select the type.
- ③ Press [-AUDIO] several times to select the type. MAIN

SAP*

MAIN+SAP* (stereo audio)

* "SAP" = Secondary Audio Program (Only works with Dolby Dual Mono)

 "MAIN" or "SAP" is not available if "On" is selected in "PCM-FIX" of "DIGITAL IN". (⇒ 32)

 Audio that is input through the DIGITAL AUDIO IN or AUX terminals are not output from the HDMI AV OUT terminal.

VQT3M40 **20**

Useful functions

1 Press [SUB MENU].

2 Select an item and press [OK].

While DIRECT NAVIGATOR screen is displayed

Properties	To display the titles properties (recording date, etc.)
View Chapters	To select the chapter
View Playlists	To play playlists
View Titles	To select the title.

While playing

Screen Aspect	When black bars are shown at the top, bottom, left, and right sides of the screen, you can enlarge the image to fill the screen.
Top Menu	To display Top Menu.
Pop-up Menu	To display Pop-up Menu.
Menu	To display Menu.
3D Settings	2D video can be virtually output as 3D, or output effect of the 3D video can be setup. (⇒ 22)

- Depending on the played contents if you perform "Screen Aspect", there may be no effect.
- When "TV Aspect" (⇒ 33) is set to "4:3" or "4:3 Letterbox", the "Zoom" effect in "Screen Aspect" is disabled.

• Depending on the media and contents, displayed items are different.

Enjoying BD-Live or picture-in-picture in BD-Video

Enjoying BD-Live discs with Internet

BD-Live allows you to enjoy more functions such as subtitles, exclusive images and online games by connecting this unit to the Internet. Since most of the BD-Live compatible discs are played back using the BD-Live function, additional contents are required to be downloaded into the external memory (local storage).

- This unit is using an SD card as a local storage device.
 BD-Live function cannot be used when there is no SD card inserted.
- 1 Perform network connection and settings.(⇒ 15, 17)
- 2 Insert an SD card with 1 GB or more free space.
- 3 Insert the disc.

■ Deleting data/Formatting SD cards

If you no longer need data recorded on the SD card, you can delete data with the following operation.

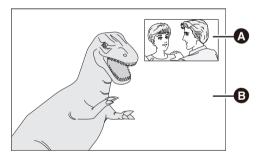
- (1) Insert an SD card.
- ② Press [HOME].
- ③ Press [▲, ▼, ◄, ▶] to select "Others" and press [OK].
- ④ Press [►] to select "SD Card Management" and press [OK].
- ⑤ Press [▲, ▼] to select "BD-Video Data Erase" or "Format SD Card" and press [OK].



- ⑥ Press [◀, ▶] to select "Yes" and press [OK].
- ⑦ Press [◀, ▶] to select "Start" and press [OK].

Playing picture-in-picture

To turn on/off secondary video and audio [DISPLAY] ⇒ select "Disc" ⇒ [▶] ⇒ select "Signal Type" ⇒ [OK] ⇒ set "Video" and "Soundtrack" in "Secondary Video" to "On" or "Off"



- A Secondary video
- B Primary video

- The usable functions and the operating method may vary with each disc, please refer to the instructions on the disc and/or visit their website.
- Some BD-Live content available on the Blu-ray discs may require an Internet account to be created in order to access the BD-Live content.
 Follow the screen display or instruction manual of the disc for information on acquiring an account.
- To use the BD-Live functions, it is recommended that you format the card on this unit. If the SD card you use is formatted, all data on the card will be erased. It cannot be recovered.
- "BD-Live Internet Access" may need to be changed for certain discs (⇒ 32).
- When discs supporting BD-Live are played back, the player or disc IDs may be sent to the content provider via the Internet.
- During search/slow-motion or frame-by-frame, only the primary video is displayed.
- When "BD-Video Secondary Audio" in "Digital Audio Output" is set to "Off", secondary audio will not be played (⇒ 32).

Enjoying 3D video

You can enjoy powerful 3D videos with realistic sensations by connecting this unit with a High Speed HDMI Cable to a 3D compatible TV.



The illustration is an image.

Preparation

Connect 3D compatible TV to an HDMI AV OUT terminal of this unit using a High Speed HDMI Cable and select HDMI video input mode on the TV. (⇒ 12, 13)

• Perform the necessary preparations for the TV.

Method of playback is the same as normal disc playback. (⇒ 20)

• Playback following the instructions displayed on the screen.

3D settings

Perform the following settings as necessary.

3D BD-Video Playback	It is also possible to play back 3D discs in 2D (conventional video). (⇒ 31)
3D Type	If 3D video cannot be played back in 3D, change the settings as required by the connected TV format. (⇒ 33) • Change the settings for 3D on the TV also when "Checker board" or "Side by side" is selected.
3D Playback Precautions	Hide the 3D viewing warning screen. (⇒ 33)
Pop-Out Level	Adjust the pop-up position for the Playback menu or message screen etc. (⇒ 30)

Useful functions

- While playing, Press [SUB MENU].
- 2 Press [▲, ▼] to select "3D Settings" and press [OK].
- 3 Select an item, then press [OK].

Signal Format	Original	Keep original picture format.
	Side by side	3D picture format comprising of left and right screens.
	2D to 3D	Converts 2D pictures to 3D effect.
3D Picture	Normal	Playback pictures with normal 3D effects.
Mode	Soft	You can enjoy 3D pictures with a feeling of broadness, holding back the depth perception.
	Manual Settings	Set 3D effect manually. Distance Set the amount of depth perception. Screen Type Selects how the screen appears during 3D playback (flat or round). Frame Width Set the amount of feathering at the edge of screen. Frame Color Set the color of feathering at the edge of screen.



- Depending on the contents, displayed items are different.
- Please refrain from viewing 3D images if you do not feel well or are experiencing visual fatigue.
 In the event that you experience dizziness, nausea, or other discomfort
 - while viewing 3D images, discontinue use and rest your eyes.
- Depending on the connected TV, the video being played back might switch to 2D video due to changes in resolution etc. Check the 3D setting on the TV.
- 3D images may not output as settings of "HDMI Resolution" and "24p Output". (⇒ 33)

Playing still pictures

BD DVD CD SD

(BD-RE, DVD-R/R DL, CD-R/RW, SD Card)

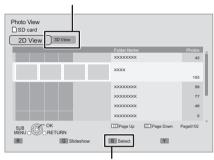
In order to play back 3D still pictures (MPO), this unit should be connected to a Full HD 3D compatible TV via an HDMI terminal.

1 Insert the media.

If the menu is displayed, press [OK] or $[\blacktriangle, \blacktriangledown, \blacktriangleleft, \blacktriangleright]$ to select the item. (⇒ 18)

2 Press [▲, ▼] to select the folder and press [OK].

"3D View": 3D still pictures (MPO) are sorted here. To play back in 3D, select from "3D View". (Still pictures in "2D View" are played back in 2D)



To select folders or still pictures that are played on slideshow.

3 Press [▲, ▼, ◄, ▶] to select the still picture and press [OK].

Press [◀, ▶] to display the previous or next still picture.

To exit the screen

Press [RETURN].

■ To show the still picture properties

While playing, press [STATUS] once or twice.



To exit the screen

Press [STATUS].

Useful functions

Press [SUB MENU].

2 Select an item, then press [OK].

While Photo View screen is displayed

Slideshow	Start Slideshow
	You can display still pictures one by one at
	a constant interval.
	Display Interval
	Change the display interval.
	Transition Effect
	Set display method.
	Repeat Play
	Repeat slideshow.
	Random Soundtrack
	Background music is played in random
	order.
	Soundtrack
	An MP3 on the iPod/iPhone or a music
	CD can be played back during the
	slideshow of JPEG on the SD card.

While playing

Start Slideshow	Start the slideshow.
Screen Aspect	Switch the screen mode.
Status	Show the still picture properties.
Rotate Right	Rotate the still picture.
Rotate Left	
Wallpaper	Set the still picture to the wallpaper of HOME screen. (⇒ 18)
Pop-Out Level	Pop-up position for the Playback menu or message screen etc. can be adjusted during 3D playback.

- · Depending on the condition of the unit and media contents, displayed items
- When viewing a 3D still picture, some functions may not work.
- When a still picture with large number of pixels is played, the display interval may become longer. Even if the setting is changed, the display interval may not become shorter.
- When both a music CD and an iPod/iPhone is inserted to this unit, the iPod/iPhone has a priority to be played back as background music.

 Still pictures displayed as " a cannot be played back with this unit."

Playing music

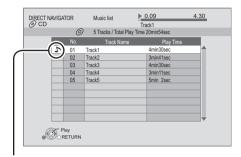
DVD CD

(DVD-R/R DL, music CD, CD-R/RW)

1 Insert the media.

If the menu is displayed, press [OK] or $[\blacktriangle, \blacktriangledown, \blacktriangleleft, \blacktriangleright]$ to select the item. $(\Rightarrow 18)$

2 Press [▲, ▼] to select the track and press [OK].



" > " indicates the track currently playing.

Playing a track in another folder

- While the DIRECT NAVIGATOR screen is displayed Press [SUB MENU].
- 2 Press [▲, ▼] to select "Select Folder" and press [OK].

You cannot select folders that contain no compatible tracks.

Listening to the Radio

Presetting stations automatically

Up to 30 stations can be set.

- 1 Press [RADIO] to select "FM".
- 2 Press [STATUS] to select the position to start the auto preset search.

OWFST-

To begin auto preset with the lowest frequency (FM87.9 or FM87.5).

CURRENT:

To begin auto preset with the current frequency.*

- * To change the frequency, refer to "Presetting stations manually".
- 3 Press and hold [OK].

Release the button when "AUTO" is displayed.

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

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

Presetting stations manually

Preparation

Select a radio broadcast.

- Press [RADIO] to select "FM".
- ② Press [SEARCH◄◄] or [SEARCH▶▶] to select the frequency.
- To start automatic tuning, press and hold [SEARCH ◄◄], [SEARCH►►]
 until the frequency starts scrolling. Tuning stops when a station is found.
- 1 While listening to the radio broadcast Press [OK].
- 2 While "P" is flashing on the display Press the number buttons to select a channel.

To select a 1-digit number e.g., 1: [1] \Rightarrow [OK]. To select a 2-digit number e.g., 12: [1] \Rightarrow [2]

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

Listening/confirming the preset channels

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

To select a 1-digit number e.g., 1: [1] \Rightarrow [OK].
To select a 2-digit number e.g., 12: [1] \Rightarrow [2].
Alternatively, press [\land , \lor] or [\blacktriangle , \blacktriangledown].

■ Display on the main unit

TUNED/STEREO:

Displayed when receiving stereo broadcasting **TUNED:**

Displayed when receiving monaural broadcasting or monaural sound is selected.

If noise is excessive

- Press and hold [-AUDIO] to activate to select the type.
- ② Press [-AUDIO] to display "MONO".

The sound becomes monaural.

Press the button again in step ② to cancel the mode. "AUTO STEREO" will be displayed on the main unit. Depending on the broadcast system, stereo or monaural will be selected. "MONO" is also canceled when you change the frequency.

• This setting can be preset for each broadcasting station.

■ FM frequency step

Main unit:

The factory setting is set to 0.2 MHz, it can be changed to receive broadcasts allocated in 0.1 MHz. You may need to change this setting if the tuner seems to skip over the correct frequency for stations in your area.

- 1) Press [RADIO] to select "FM".
- ② Press and hold [RADIO].

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

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

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

Enjoying TV with unit's speakers

Preparation

Turn on your TV and select the appropriate audio input mode [AUX, ARC, D-IN] to suit the connections to this unit. (⇒ 18)

Surround sound effects

You can enhance stereo sources with surround sound effect.

- 1 Press [SURROUND] several times to select the effect.
- While "MANUAL" is displayed on the unit's display Press [◀, ▶] and select the desired effect.

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

- DOLBY PRO LOGIC II MOVIE
- DOLBY PRO LOGIC II MUSIC
- SUPER SURROUND

For more detailed information on this operation, please refer to the "Enjoying surround sound effects" section on page 19.

Sound modes

You can adjust the mode depending on the source or situation.

- 1 Press [SOUND] several times to select the mode.
- While the selected mode is displayed on the unit's display

Press $[\blacktriangleleft, \blacktriangleright]$ and select the desired setting.

For more detailed information on this operation, please refer to the "Changing the sound modes" section on page 19.

Linked operations with the TV (VIERA Link™ "HDAVI

Control™")

What is 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 an HDMI cable. See the operating instructions for connected equipment for operational details.

Preparation

- Set "VIERA Link" to "On" (⇒ 33).
 (The default setting is "On".)
- ② Set the "HDAVI Control" operations on the connected equipment (e.g., TV).
- ③ Turn on all "HDAVI Control" compatible equipment and select this unit's input channel on the connected TV so that the "HDAVI Control" function works properly.

When the connection or settings are changed, repeat this procedure.

Setting the audio link

■ Setting the audio link with the TV

With the remote control:

- Select the actual TV audio connection on the main unit.
- 1) Press [HOME].
- ② Press [▲, ▼, ◄, ▶] to select "Others" and press [OK].
- 3 Press [OK] to select "Setup".
- ④ Press [▲, ▼] to select "TV / Device Connection".
- ⑤ Press [▲, ▼] to select "TV Audio Input".
- ⑥ Press [◀, ▶] to switch "AUX", "ARC" or "DIGITAL IN" and press [OK].
- Select "AUX" or "ARC"*1 in "TV Audio Input" when the DIGITAL AUDIO IN terminal is used for the STB connection

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

■ Setting the audio link with the STB

With the remote control:

- Select the STB input channel on the TV.
- 1) Press [EXT-IN] to select "D-IN".
- ② Press [STATUS] to select "CABLE/SATELLITE AUDIO ON".
- If the input channel of the STB on the TV is changed or if you
 want to change the device allocated for the linked
 operations, select "CABLE/SATELLITE AUDIO OFF" in step
 2 above and then repeat steps 1 to 2.



- 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 5" function.
 "HDAVI Control 5" is the newest standard (current as of December, 2010) 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.

Speaker control

You can select whether audio is output from the unit's speakers or the TV speakers by using the TV menu settings.

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 the unit on and select, "AUX"*2, "ARC"*1.*2 or "D-IN" (DIGITAL IN)*2 as the source.
- You can control the volume setting using the volume or mute button on the TV's remote control.
- If you turn off this unit, TV speakers will be automatically activated.

ΤV

TV speakers are active.

- The volume of this unit is set to "0".
- Audio output is 2-channel audio.

- When switching between this unit's speakers and TV speakers, the TV screen may be blank for several seconds.
- The audio from "AUX", "DIGITAL IN", "FM Radio" or "iPod" will be output from this unit's speakers even though the TV speakers are selected.

Automatic input switching (Power on link)

When the following operations are performed, the television will automatically switch the input channel and display the corresponding action. When the TV is off, the TV will automatically turn on.

- -When play starts on the unit
- When an action that uses the display screen is performed (e.g., DIRECT NAVIGATOR screen)
- When you switch the TV input to TV tuner mode, this unit will automatically switch to "AUX"*2, "ARC"*1,*2 or "D-IN" (DIGITAL IN)*2.
- This function does not work when the iPod/iPhone selector is chosen. (⇒ 28)

Automatic lip-sync function (for HDAVI Control 3 or later)

Delay between audio and video is automatically adjusted, enabling you to enjoy smooth audio for the picture (⇒ 32, "Audio Delay").

- This function works only when "BD/DVD", "SD", "AUX"*2, "ARC"*1,*2, "D-IN" (DIGITAL IN)*2 is selected as the source on this unit.
- 1 The selection works only when using an ARC compatible TV.
- *2 "AUX", "ARC" or "D-IN" works depending on the setting in "Setting the audio link".

Power off link

All connected equipment compatible with "HDAVI Control", including this unit, automatically turns off when you switch the television off.

Playing music continuously even after turning off the TV (When the unit is connected to a Panasonic TV (VIERA) that supports HDAVI Control 2 or later.)
Select "Video" in "Power Off Link" (⇒ 33)

Easy control only with VIERA remote control

Only TV supports "HDAVI Control 2" or later

By using the TV remote control, you can play discs using the "Control Panel" and display the Top Menu or Pop-up Menu, etc.

 This works only during "BD/DVD" or "SD" playback and resume modes.

1 Press [SUB MENU].

e.g. BD-Video



2 Select an item, then press [OK].

 The sub menu may not appear while the Top Menu for BD-Video or DVD-Video is displayed.



- The buttons that you can use for this unit can vary depending on the TV.
 For details, refer to the operating instructions of the TV.
- The operation of this unit may be interrupted when you press incompatible buttons on the TV remote control.
- Depending on the menu, some button operations cannot be performed from the TV's remote control.

Using the iPod®/iPhone®

Compatible iPod/iPhone (as of December 2010)

- Update your iPod/iPhone with the latest software before using this unit.
- Compatibility depends on the software version of your iPod/iPhone.
- iPod/iPhone compatibility assures music, video playback and battery charge functions of this unit as a home theater system.

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

* Playback functions on the main unit may be limited in the "All" mode. In some locations, reception status of an iPhone may be poor when it is loaded on this unit.

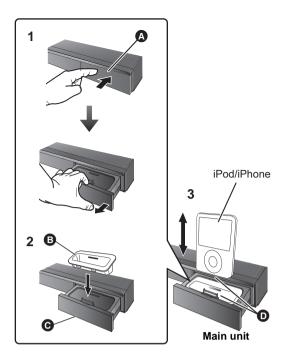
 When the iPhone receives a call while connected to this unit, playback, etc. of the iPhone may stop.

To prioritize the operation with the iPhone connected to this unit, make the setting so that the iPhone does not receive calls.

iPod/iPhone Connection

Preparation

- Before connecting/disconnecting the iPod/iPhone, turn the main unit off or reduce the volume of the main unit to its minimum
- Make sure that the video cable connection is made to view photos/videos from the iPod/iPhone.
- 1 Push the center of drawer ((A)), and pull out fully until it clicks to open the Dock for iPod/iPhone ((G)).
- 2 Install a Dock adapter (not supplied) (3) before inserting your iPod/iPhone into the dock.
- 3 Connect the iPod/iPhone (not supplied) firmly.



- A The center of drawer
- Dock adapter (not supplied)
 - Please be sure to use the adapter that is compatible with your model of iPod/iPhone.
 - Attach the dock adapter until it is firmly in place.
 - To purchase a dock adapter, consult your local iPod/ iPhone dealer.
- O Dock for iPod/iPhone
- Make sure to match when inserting.
 - Carefully insert and remove the iPod/iPhone to ensure long lasting product enjoyment.
 - Check that the connector has no dust or foreign materials before connecting.



 The 3D logo on the Dock for iPod/iPhone does not mean that the iPod/ iPhone has 3D capabilities.

About recharging the battery

- iPod/iPhone will start recharging regardless of whether this unit is on or off.
- "IPOD *" will be shown on the main unit's display during iPod/iPhone charging in main unit standby mode.
- · Once fully recharged, additional recharging will not occur.

iPod/iPhone Playback

Preparation

- Make sure that the "IPOD" source is selected. Press [iPod] to select the source.
- To view photos/videos from the iPod/iPhone
 Operate the iPod/iPhone menu to make the appropriate photo/video output settings for your TV.
- To display the picture, turn on the TV and select the appropriate video input mode.

Enjoy music/video

- 1 Press [iPod] to select "IPOD".
- 2 Press [STATUS] several times to select the music menu or videos menu.
 - You can also select "Videos" or "Music" by using HOME menu. (⇒ 18)
- 3 Press [▲, ▼] to select an item and press [OK].
 - Repeat this step until the selected title starts playback.
 - Press [◀, ▶] to display the previous or next page.
 e.g., music playback screen



- A Album artwork
 - If album artwork is contained in the data of a song, it will appear on the TV. If there is no album artwork,
 - " 🎵 " will be appear on TV.
 - Depending on the software version of your iPod/ iPhone, the album artwork may not appear properly.
 - It may take time to read the album artwork.
 - Some operations may not work while reading the album artwork.

To exit, press [RETURN].

Basic controls

(For music and video playback only)

Buttons	Functions
[► PLAY]	Play
[■STOP]	Pause
[IIPAUSE]	
[◄, ▶▶]	Skip
(Press and hold) [SEARCH◀◀, SEARCH▶▶]	Search

Enjoy photos

- 1 Press [iPod] to select "IPOD".
- 2 Press [STATUS] several times to select "ALL" on the unit's display.
 - You can also select "All" by using HOME menu. (⇒ 18)
- 3 Switch the TV input to video in.
- Play a slideshow on your iPod/iPhone.

The picture will be displayed on your TV.

To use the iPod touch/iPhone features

- Press the Home button on the iPod touch/iPhone.
- Select the iPod touch/iPhone features on the touch screen to operate.

You can use the remote control to operate the iPod/iPhone menu

The operation may vary among iPod/iPhone models.

- [▲, ▼]: To navigate menu items
- [OK]: To go to the next menu.
- [RETURN]: To return to the previous menu.

Other methods of playback

- 1 Press [SUB MENU].
- 2 Press [▲, ▼] to select the item and press [OK].

Playback Mode

Shuffle (For music playback only.)

Play all songs on iPod/iPhone in random order.

Albums:

Play all songs on an album in random order.

Repeat

One:

Play a single song/video repeatedly.

Play all songs/videos from selected items (e.g., Playlists, Albums, etc.) repeatedly.

iPod Information

Display the firmware version of iPod/iPhone.

3 Press [▲, ▼] to select the setting and press [OK].



- The setting of the playback mode will be kept until changes are made on the same iPod/iPhone.
- This function does not work when "All" is selected.
- Surround sound effect and sound mode are available (⇒ 19).

Enjoying VIERA CASTTM

You can access a selection of Internet services from the Home screen with VIERA CAST, for example YouTube, Picasa Web Albums. (Current as of December 2010)

Preparation

- Network connection (⇒ 15)
- Network setting (⇒ 17)

1 Press [VIERA CAST].

- NETFLIX can be accessed directly by [NETFLIX] button.
- Message is displayed. Please read these instructions carefully and then press [OK].
- 2 Press [▲, ▼, ◄, ▶] to select the item and press [OK].

Operable buttons:

[▲, ▼, ◄, ▶], [OK], [RETURN], colored buttons, number buttons

VIERA CAST Home screen;



Images are for illustration purposes, contents may change without notice.

To exit from VIERA CAST

Press [EXIT], [HOME] or [POP-UP MENU].

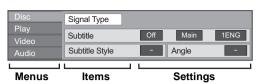


- When playing content from a disc/SD card VIERA CAST cannot be accessed by pressing [VIERA CAST].
- In the following cases, settings are possible using "Internet Content Settings" (⇒ 34)
- When restricting the use of VIERA CAST.
- When the audio is distorted.
- When wrong time is displayed
- If using slow Internet connection, the video may not be displayed correctly. A high-speed Internet service with a speed of at least 6 Mbps is recommended.
- Be sure to update the firmware when a firmware update notice is displayed on the screen. If the firmware is not updated, you will not be able to use the VIERA CAST function. (⇒ 17)
- VIERA CAST™ home screen is subject to change without notice.
 The services through VIERA CAST™ are operated by their respective service providers, and service may be discontinued either temporarily or permanently without notice. Therefore, Panasonic will make no warranty for the content or the continuity of the services.
- All features of websites or content of the service may not be available.
- Some content may be inappropriate for some viewers.
- Some content may only be available for specific countries and may be presented in specific languages.

Playback menu

1 Press [DISPLAY].

e.g., BD-Video



- 2 Press [▲, ▼] to select the menu and press [▶].
- 3 Press [▲, ▼, ◄, ▶] to select the item and press [▶].
- 4 Press [▲, ▼] to select the setting.

Some items can be changed by pressing [OK].

To exit the screen

Press [DISPLAY].

Depending on the condition of the unit (playing, stopped, etc.) and media contents, there may be some items that you cannot select or change.

Regarding Language: (⇒ 40)

Disc

Signal Type

Primary Video	Video	The recording method of original video appears.
	Soundtrack	Select the type of audio or language.
Secondary Video	Video	Select on/off of images. The recording method of original video appears.
	Soundtrack	Select on/off of audio and the language.

Video

The recording method of original video appears.

Soundtrack

Show or change the soundtrack.

Subtitle

Turn the subtitle on/off, and change the language depending on the media.

Subtitle Style

Select the subtitle style.

Audio channel

Select the audio channel number.

(⇒ 20, "Changing audio")

Angle

Select the number of the angle.



Some items may be changed only on the disc specific menu. (\Rightarrow 20)

Play

Repeat Play

(Only when the elapsed time is being displayed on the unit's display.)

Select the item which you want to repeat. The items displayed differ depending on the type of media.

Select "Off" to cancel.

Random

Select whether or not to play random.

Pop-Out Level

[Only when "Full HD" is selected in "3D Type" (⇒ 33).] Pop-up position for the Playback menu or message screen etc. can be adjusted during 3D playback.

Video

Picture

Select the picture quality mode during play.

Advanced Setting

Chroma Process

The high-resolution processing of HDMI chroma signals produces a high-resolution picture with rich picture quality.

Detail Clarity

The picture is sharp and detailed.

Super Resolution

Pictures of normal image quality are corrected to sharp and detailed images when output as 1080i/1080p from HDMI AV OUT.

Progressive

Select the method of conversion for progressive output to suit the type of material being played.

 When the content is distorted change the settings from "Auto" to "Video".

24p

Movies and other material recorded on DVD-Video at 24p are output at 24p.

• Only when you have selected "On" in "24p Output" (⇒ 33)

Audio

Movie Sound Effect

Select the sound effect of the movie.

• Cinema Surround Plus:

The function creates the sound of virtual speakers to enhance the realistic surround feeling as if the sound comes from all directions.

Music Sound Effects*1, *2

Select the sound effect of the music.

• Digital Tube Sound:

This feature gives you warm sound, like that produced by a vacuum tube amplifier.

Re-master:

This feature gives you brighter sound by increasing the high frequency portion of the audio. (Discs recorded at 48 kHz or less)

Recommended settings:

Re-master 1	Pop and rock
Re-master 2	Jazz
Re-master 3	Classical

High Clarity Sound

When connected to TV via the HDMI AV OUT terminal for outputting image, it produces clearer sound.

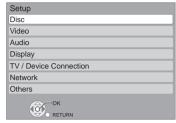
 Only when you have selected "Enable" in "High Clarity Sound" (⇒ 32).

*2 This function has no effect when the type of audio is Dolby Pro Logic II.

Setup menu

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

- 1 Press [HOME].
- 2 Press [▲, ▼, ◄, ▶] to select "Others" and press [OK].
- 3 Press [OK] to select "Setup".



- 4 Press [▲, ▼] to select the menu and press [OK].
- 5 Press [▲, ▼] to select the item and press [OK].

If there are any other items, repeat these steps.

6 Press [▲, ▼, ◄, ▶] to select the option and press [OK].



 There may be differences in operation methods. If this happens, follow the on-screen instructions for the operation.

About the password

The following items use the same password.

Don't forget your password.

- "DVD-Video Ratings"
- "BD-Video Ratings"
- "Lock" (\$\Rightarrow\$ 34)

Disc

DVD-Video Ratings

Set a ratings level to limit DVD-Video play.

 Follow the on-screen instructions. Enter the 4-digit password with the number buttons when the password screen is shown.

BD-Video Ratings

Set an age limit of BD-Video play.

 Follow the on-screen instructions. Enter the 4-digit password with the number buttons when the password screen is shown.

3D BD-Video Playback

Select the playback method of 3D compatible video software.

Audio Language

Choose the language for audio.

- If "Original" is selected, the original language of each disc will be selected.
- Enter a code (⇒ 40) with the number buttons when you select "Other ****.

VOT3M40

¹¹ When audio is output from the HDMI AV OUT terminal this function is effective only when "Dolby D/Dolby D +/Dolby TrueHD" or "DTS/ DTS-HD" is set to "PCM". (⇒ 32)

Subtitle Language

Choose the language for the subtitle.

- If "Automatic" is selected and the language selected for "Audio Language" is not available, subtitles of that language will automatically appear if available on that disc.
- Enter a code (⇒ 40) with the number buttons when you select "Other ****.

Menu Language

Choose the language for the disc menus.

 Enter a code (⇒ 40) with the number buttons when you select "Other ****.

BD-Live Internet Access (⇒ 21)

You can restrict Internet access when BD-Live functions are used.

 If "Allow (Limited)" is selected, Internet access is permitted only for BD-Live contents which have content owner certificates.

Video

Still Mode (paused video)

Select the type of picture shown when you pause playback.

Auto	Automatically selects the type of picture shown.
Field	Select if jittering occurs when "Auto" is selected.
Frame	Select if small text or fine patterns cannot be seen clearly when "Auto" is selected.

Seamless Play

The chapter segments in playlists are played seamlessly.

 Select "On", when the picture freezes for a moment at the chapters segment in playlists.

Black Level Control

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

Audio

Dynamic Range Compression

You can listen at low volumes but still hear dialog clearly. (Dolby Digital, Dolby Digital Plus and Dolby TrueHD only)

• "Auto" is effective only when playing Dolby TrueHD.

Digital Audio Output

Press [OK] to show the following settings:

Dolby D/Dolby D +/Dolby TrueHD DTS/DTS-HD

Select the audio signal to output.

- Select "PCM", when the connected equipment cannot decode the respective audio format.
- Not making the proper settings may result in noise.

BD-Video Secondary Audio

Select whether to mix or not mix the primary audio and secondary audio (including the button click sound). (⇒ 21)

 If "Off" is selected, the unit outputs the primary audio only.

Digital Audio Input

Press [OK] to show the following settings:

PCM-FIX

Select the following audio signal to input.

- -ARC
- DIGITAL IN
- "On": PCM is available.
- "Off": DTS, PCM and Dolby Digital are available.

Select "On" if the sound is cut off intermittently.

Downmix

Select the downmix system to enjoy multi-channel or 2-channel sound.

- Select "Surround encoded" to enjoy the surround sound.
- There is no downmix effect on the bitstream audio signal.
- The audio will be output in "Stereo" in the following cases:
 - AVCHD playback
 - Dolby TrueHD playback
- Playback of secondary audio (including the button click sound).

High Clarity Sound

When connected to TV via the HDMI AV OUT terminal for outputting image, it produces clearer sound.

 Set to "Enable" and then set "High Clarity Sound" on the Playback menu to "On". (⇒ 31)

Audio Delay

Mis-sync between the video and audio is corrected by delaying the audio output.

Speaker

Refer to page 35

Display

Status Messages

Choose whether to show status messages automatically.

On-screen Language

Choose the language for menus and on-screen messages.

Screen Saver Function

This is to prevent burn-in on the screen.

- When this is set to "On":
- If there is no operation for 5 minutes or more, DIRECT NAVIGATOR screen switches to HOME menu automatically.
- While playing and pausing, etc., this function is not available.
- While playing music (CD-DA or MP3), after about 5 minutes DIRECT NAVIGATOR screen switches to a blank screen with "Screen Saver" message.

Front Panel Display

Changes the brightness of the unit's display.

 If "Auto" is selected, the display is dimmed but brightens when you perform some operations.

License

Information about the software used by this unit is displayed.

VQT3M40

TV / Device Connection

3D Settings

Press [OK] to show the following settings

3D Type

Select the format of the connected TV.

 Change the settings for 3D on the TV also when "Checker board" or "Side by side" is selected.

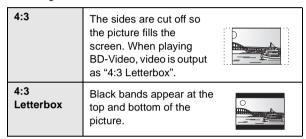
3D Playback Precautions

Set to display or hide the 3D viewing warning screen when playing back the 3D compatible video software.

TV Aspect

Set to match the type of television connected.

When connected to a 4:3 aspect television and playing 16:9 ratio image:



When connected to a 16:9 widescreen television and playing 4:3 ratio image:

16:9	Video is displayed as a 4:3 ratio image in
	the center of the screen.

HDMI Connection

Press [OK] to show the following settings:

HDMI Resolution

The items supported by the connected devices are indicated on the screen as "*". When any item without "*" is selected, the images may be distorted.

- If "Auto" is selected, automatically selects the output resolution best suited to the connected television.
- To enjoy high-definition video up-converted to 1080p, you need to connect the unit directly to 1080p compatible HDTV (High Definition Television). If this unit is connected to an HDTV through other equipment, it must also be 1080p compatible.

24p Output

When this unit is connected to a TV supporting 1080/24p output using an HDMI cable, movies and other material recorded at 24p are output at 24p.

- When playing DVD-Video, set to "On" and then also set "24p" in "Video" (⇒ 30) to "On".
- When BD-Video images other than 24p are played, images are output at 60p.
- 24p

A progressive image recorded at a rate of 24 frames per second (motion-picture film). Many BD-Video movie contents are recorded in 24 frames/second in accordance with the film materials.

HDMI Color Mode

This setting is for selecting color-space conversion of the image signal when the unit is connected using an HDMI cable

HDMI Audio Output

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

 Audio will be output through the system's speakers when "Off" is selected.

VIERA Link

Set to use "HDAVI Control" function when connected with an HDMI cable to a device that supports "HDAVI Control".

 Select "Off" when you do not want to use "HDAVI Control".

Deep Color Output

This setting is for selecting whether to use Deep Color output when a television that supports Deep Color is connected.

Contents Type Flag

Depending on the playback content, the TV will output adjusting to the optimal method when a TV that supports this function is connected.

Power Off Link

Select the desired power off link setting of this unit for VIERA Link operation (⇒ 27). (This works depending on the settings of the connected VIERA Link "HDAVI Control" compatible equipment.)

Video/Audio:

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

Video:

When the TV is turned off, this unit will turn off except during the following conditions:

- -CD or MP3 audio playback
- iPod/iPhone mode
- Radio mode
- -- "AUX", "ARC" or "D-IN" (DIGITAL IN) mode (non-selected TV AUDIO setting for VIERA Link)
- -"D-IN" (DIGITAL IN) mode (non-selected CABLE/ SATELLITE AUDIO setting for VIERA Link)

TV Audio Input

Select the TV audio input to work with the VIERA Link operations.

VOT3M40

Network

Network Easy Setting (⇒ 17)

Network Settings

Perform network-related settings individually. Press [OK] to show the following settings:

IP Address / DNS Settings

This is for checking the state of the network connection and setting the IP address and DNS-related.

Press [OK] to show the respective setting.

 "Connection Speed Setting" is enabled only when "Auto Detect Connection Speed" is turned "Off".

Proxy Server Settings

This is for checking the state of connection with the Proxy server and performing settings.

Press [OK] to show the respective setting.

Internet Content Settings (⇒ 29) (VIERA CAST)

Press [OK] to show the following settings:

Lock

You can restrict the usage of VIERA CAST.

 Follow the on-screen instructions. Enter the 4-digit password with the number buttons when the password screen is shown.

Audio Auto Gain Control

Volume that is different depending on the contents is adjusted automatically to the standard volume while using the VIERA CAST.

- Depending on contents, this function effect will not work.
- Select "Off" when the audio is warped.

Time Zone

By selecting the time zone, it is possible to set the unit's time to match your location.

•Some VIERA CAST contents require the time zone to be set. Set the time zone if necessary.

DST

Select "On" when using Daylight Saving time.

MAC Address

Displays the MAC address of this unit.

Others

Remote Control Code

Change the remote control code, when other Panasonic products react to this remote control.

Quick Start*

Speed of startup from power off is increased.

- Internal control unit will be powered when it is set to "On", so contents of the following will be different from the time it is set to "Off".
 - Idle power consumption will increase. (More about the power consumption ⇒ 42)
 - * Depending on the power conserving setting activated on the TV, this function may have less effect when the unit is started by the power on link function. (⇒ 26)

Easy setup (⇒ 16)

You can execute basic settings to optimize your home theater system.

Restore Default Settings

This returns all values in the Setup menu and the Playback menu, except for "Remote Control Code", "On-screen Language", "IP Address / DNS Settings", "Proxy Server Settings", "Lock", "DVD-Video Ratings" and "BD-Video Ratings" etc. to the default settings.

System Information

Display firmware version of this unit.

Press [OK] to show the following settings:

Automatic Update Check

When this equipment remains connected to the Internet, it will check for the latest firmware version when it is turned on and you can update it if necessary.

Update Now

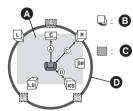
You can update the firmware manually.

Speaker settings

Delay time

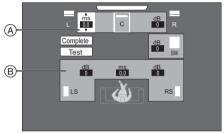
For optimum listening with 5.1-channel sound, all the speakers, except for the subwoofer, should be the same distance from the seating position.

If either distance A or B is less than C, find the difference in the relevant table and adjust the delay time to make up for the difference.



- (A) (B) (C): Primary listening distance
- Approximate room dimensions
- Actual speaker position
- Ideal speaker position
- Circle of constant primary listening distance
- 1 Press [▲, ▼, ◄, ▶] to select the distance box (and press [OK].

e.g., 5.1ch setting



- (A) Center (C)
- (RS) By Left Surround (LS), Right Surround (RS)

2 Press [▲, ▼] to select the setting and press [OK].

(A) Center speaker

Difference	Setting
Approx. 34 cm (1 ft. 1 in.)	1.0 ms
Approx. 68 cm (2 ft. 2 in.)	2.0 ms
Approx. 102 cm (3 ft. 4 in.)	3.0 ms
Approx. 136 cm (4 ft. 5 in.)	4.0 ms
Approx. 170 cm (5 ft. 6 in.)	5.0 ms

B Surround speaker

Difference	Setting
Approx. 170 cm (5 ft. 6 in.)	5.0 ms
Approx. 340 cm (11 ft. 1 in.)	10.0 ms
Approx. 510 cm (16 ft. 8 in.)	15.0 ms

Adjusting speaker level

Volume (Channel balance) (((Effective when playing multi-channel audio)

1 Select "Test" and press [OK].

A test signal is output.

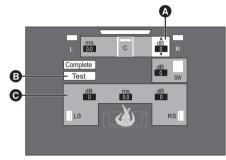
While listening to the test signal Press [▲, ▼] to adjust the volume of each speaker.

The volume can be adjusted between +6 dB to -6 dB.

- Set each speaker level according to the volume of the Front (L) and Front (R) speaker volume respectively.
- 3 Press [OK].

The test signal stops.

e.g., 5.1ch setting



- A Center (C)
- Test
- Left Surround (LS), Right Surround (RS)

To finish the speaker setting

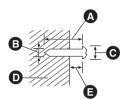
Press [▲, ▼, ◄, ▶] to select "Complete" and press [OK].

Speaker installation option

Attaching to a wall

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

- The wall or pillar on which the speakers are to be attached should be capable of supporting 10 kg (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.
- Do not attempt to attach these speakers to walls using methods other than those described in this manual.
- 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).

e.g., Fron	nt speaker
DO NOT	DO
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.

Use the measurements indicated below to identify the screwing positions on the wall.

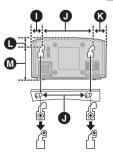
 Leave at least 20 mm (²⁵/₃₂") of space above the speaker and 10 mm (¹³/₃₂") on each side to allow enough space for fitting the speaker.

Front speaker, Surround speaker

- **6** 40 mm (1 ⁹/₁₆")
- **G** 17.6 mm (11/16")
- 98.7 mm (3 ⁷/₈")

Center speaker

- ① 23 mm (²⁹/₃₂")
- 95 mm to 97 mm (3 3/4" to 3 13/16")
- 26 mm (1 ¹/₃₂")
- 16.7 mm (21/32")
- M 63.7 mm (2 ¹/₂")



Troubleshooting guide

Before requesting service, please perform the following steps.

Do you have the latest firmware installed?

Firmware updates may be released to correct operating irregularities that are discovered with certain movies. (⇒ 17)

Make the following checks and visit our website for more information.

http://www.panasonic.com/help Enter the model number.

Or visit our website to find a service center.

You can find a service center near you easily on our website.

Other support information:

"Customer Services Directory (United States and Puerto Rico)" (⇒ 43)

The following do not indicate a problem with this unit:

- -Regular disc rotating sounds.
- -Image disturbance during search.
- -Image disturbance when replacing 3D discs.

■ Unit does not respond to the remote control or front panel buttons.

Press and hold [POWER �/I] on the main unit for 5 seconds.

—If still unable to power the unit off, disconnect the power cord, wait 1 minute, then reconnect the power cord.

■ Cannot eject disc.

The unit may have a problem.

While the unit is off, press and hold [►►] on the remote control and [▲ OPEN/CLOSE] on the unit at the same time for more than 5 seconds.

General operation

To return to the factory preset

Select "Yes" in "Restore Default Settings" in the Setup menu.
 (⇒ 34)

To return all settings to the factory preset

Reset the unit as follows:

While the unit is off, press and hold [+ VOLUME], [▲ OPEN/ CLOSE] and [POWER 付/I] on the main unit at the same time for more than 5 seconds.

The remote control doesn't work properly.

- Change the batteries in the remote control. (⇒ 9)
- The remote control and main unit are using different codes. If "SET □" is displayed on the unit's display when a button is pressed on the remote control, change the code on the remote control. (⇒ 34)

Disc cannot be played.

- The disc is dirty. (⇒ 9)
- Check the region code.

Still pictures (JPEG) do not playback normally.

 The images that were edited on the PC, such as Progressive JPEG, etc., may not playback.

The TV tuner mode is not displayed when the TV is switched on.

- This phenomenon may occur, depending on the TV setting, when "Quick Start" is set to "On".
- Depending on the TV, this phenomenon may be prevented by reconnecting the HDMI cable to a different HDMI input terminal or by changing the HDMI auto connection setting.

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

The ratings level returns to the factory preset.

- ① While the unit is on, press and hold [OK], [B] and [Y] on the remote control at the same time for more than 5 seconds. —"00 RET" is displayed on the unit's display.
- ② Repeatedly press [►] (right) on the remote control or [POWER ம//] on the unit until "03 VL" is displayed on the unit's display.
- ③ Press [OK] on the remote control or [▲ OPEN/CLOSE] on the unit.

Power

No power.

 Insert the AC power supply cord securely into a household AC outlet. (⇒ 15)

The unit switches to standby mode.

- This unit will automatically turn to standby mode after 30 minutes if it is inactive. (⇒ 7)
- When the time set for the sleep timer has passed, the power will be turned off. (⇒ 6)
- One of the unit's safety devices is activated. Press [POWER ூ/l] on the main unit to turn the unit on.

This unit is turned off when the input for the TV is switched.

 This is a normal phenomenon when using VIERA Link (HDAVI Control 4 or later). For details please read the operating instructions for the TV.

The unit does not turn off.

- ① Press and hold [POWER �/I] on the main unit for 5 seconds. (If still unable to power the unit off, disconnect the power cord, wait 1 minute, then reconnect the power cord.)
- ② Reset the unit as follows:

 While the unit is off, press and hold [+ VOLUME],

 [▲ OPEN/CLOSE] and [POWER ₺/l] on the main unit at the same time for more than 5 seconds.

Displays

The display is dim.

• Change "Front Panel Display" in the Setup menu. (⇒ 32)

TV screen and video

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

Jittering occurs.

- An incorrect resolution is selected in "HDMI Resolution".
 Reset the setting as follows:
- ① While the unit is on, press and hold [OK], [B] and [Y] on the remote control at the same time for more than 5 seconds. —"00 RET" is displayed on the unit's display.
- ② Repeatedly press [►] (right) on the remote control or [POWER ம/l] on the unit until "04 PRG" is displayed on the unit's display.
- ③ Press and hold [OK] on the remote control or [▲ OPEN/ CLOSE] on the unit for at least 3 seconds. Set the item again. (⇒ 33)
 - When Dolby Digital Plus, Dolby TrueHD, and DTS-HD audio are not output in bitstream, select "Yes" in "Restore Default Settings" and make proper settings. (⇒ 34)
- When "3D BD-Video Playback" in the Setup menu is set to "Automatic", images may not be output depending on the connection method. After removing the disc from this unit, select "Set before play" in the Setup menu, and select "2D Playback" in the setup screen displayed when playing 3D discs. (⇒ 31)

Video is not output.

 Set "High Clarity Sound" in the Playback menu to "Off" to use the VIDEO OUT terminal. (⇒ 31)

Video is not output in high-definition.

 Confirm that "HDMI Resolution" in the Setup menu is set properly. (⇒ 33)

3D video is not output.

Are the settings on this unit and the TV correct? (⇒ 22)

3D video is not output correctly as 2D.

- Select "Set before play" in the Setup menu, and select "2D Playback" in the setup screen displayed when playing 3D discs. (⇒ 31)
- Discs that have recorded titles with Side by side (2 screen structure) and that can be enjoyed in 3D are played back in accordance with the settings of the TV.

No subtitles.

 When progressive output is on, closed captions/subtitles cannot be displayed.

The subtitles overlap closed captions recorded on discs.

 Turn off the subtitles or turn off the closed caption setting on the TV. (⇒ 30)

A black band is displayed around the edge of the screen. The aspect ratio of the screen is abnormal.

- Confirm the "TV Aspect" is set properly. (⇒ 33)
- Adjust the aspect setting on the television.

VQT3M40

Sound

No sound.

Low volume

Distorted sound.

Cannot hear the desired audio type.

- Check connections to speakers and other equipment.
 (⇒ 10−15)
- Ensure the speaker settings for your speakers are correct. (⇒ 35)
- To output audio from a device connected with an HDMI cable, set "HDMI Audio Output" to "On" in the Setup menu. (⇒ 33)
- When "BD-Video Secondary Audio" is set to "On", Dolby TrueHD, Dolby Digital Plus, DTS-HD Master Audio and DTS-HD High Resolution Audio are output as Dolby Digital or DTS Digital Surround.
- Re-master will not work when the bitstream signal is output from the HDMI AV OUT terminal. (⇒ 31)
- Depending on the connected equipment, the sound may be distorted if this unit is connected with an HDMI cable.
- The multi-channel audio from a device connected to the TV is not output in it's original multi-channel form.
 - If the device has an optical audio output terminal, connect the device to this unit's "OPTICAL" terminal. (⇒ 14, 25)

No surround sound.

• Press [SURROUND] to select a surround effect. (⇒ 19)

Cannot switch audio.

 When audio is output from the HDMI AV OUT terminal, set "Dolby D/Dolby D +/Dolby TrueHD" or "DTS/DTS-HD" to "PCM". (⇒ 32)

No sound from the TV.

- Press [EXT-IN] to select the corresponding source. (⇒ 18)
- When connecting the unit to a TV using an HDMI cable, check whether the HDMI terminal on the TV is labeled "HDMI (ARC)".
 If not labeled in this way, connect using the HDMI cable in combination with an optical digital audio cable. (⇒ 12, 13)
- If there is no sound from the equipment connected to this unit's DIGITAL AUDIO IN terminal, please make sure that the optical audio output of the equipment is set to PCM.

iPod/iPhone operation

Cannot charge or operate.

- Check that the iPod/iPhone is connected firmly. (⇒ 27)
- The battery of the iPod/iPhone is depleted. Charge the iPod/ iPhone, and then operate again.
- When unexpected operation occurs while using the iPod/iPhone, connect the iPod/iPhone again or try to restart the iPod/iPhone.

Cannot display iPod/iPhone videos/photos on the TV.

- Make sure that TV is connected to the VIDEO OUT terminal on this unit. (⇒ 12)
- Operate the iPod/iPhone menu to make the appropriate video/photo output settings for your TV. (Refer to operating instructions for your iPod/iPhone.)

The TV input channel unintentionally changes to HDMI input.

- When the main unit is connected with an "HDAVI Control" compatible TV and VIDEO IN is selected for iPod/iPhone video or photo playback, the TV input channel will automatically change to the HDMI input channel when [HOME] is pressed.
 - Re-select the TV's VIDEO IN input channel.

Radio

Distorted sound or noise is heard.

- · Adjust the position of the antenna.
- Use an outdoor antenna. (⇒ 11)

A beat sound is heard.

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

Network

I can't connect to the network.

- Confirm the network connection and settings. (⇒ 15, 17, 34)
- Check the operating instructions for each device and connect accordingly.

Other difficulties with playback

BD-Video or DVD-Video is not played.

- Ensure the disc is for the correct BD-Video region code or DVD-Video region number, and is not defective. (⇒ 8)
- You have set a ratings level to limit BD-Video or DVD-Video play. Change this setting. (⇒ 31)
- Some BD-Video can only be output with HDMI.

I cannot play back BD-Live.

- The SD card is write-protected. (⇒ 9)
- Confirm that this unit is connected to the broadband Internet.
 (⇒ 15)
- Confirm the "BD-Live Internet Access" settings. (⇒ 32)
- Confirm an SD Card is inserted into the SD Card slot. (⇒ 18)

Alternative soundtrack and subtitles cannot be selected.

- The languages are not recorded on the disc.
- You may not be able to use the playback menu to change the soundtrack and subtitles on some discs. Use the disc's menus to make changes. (⇒ 20)

Angle cannot be changed.

 Angles can only be changed during scenes where different angles are recorded.

VQT3M40

Peference

Messages

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



On the television

Cannot play.

You inserted an incompatible disc. (Discs recorded in PAL video, etc.)

Cannot display on this unit.

• You tried to play a non-compatible image.

No disc is inserted.

• The disc may be upside down.

Some operations are unsupported by the unit. For example;
 BD-Video: During playback, reverse slow-motion or reverse frame-by-frame is not possible.

IP address is not set.

The "IP Address" in "IP Address / DNS Settings" is "--- ----.
 ---. Set the "IP Address", "Subnet Mask", and "Default Gateway". (Select the automatic address acquisition if necessary.)

No Video

 Depending on the connected iPod/iPhone, video menu may not be available on the TV. Select "ALL" on the unit's display and operate video playback from your iPod/iPhone menu.
 (⇒ 29)

On the unit's display

F99

• The unit fails to operate properly. Press [POWER ₺/l] on the main unit to switch the unit to standby for 3 seconds. Now press [POWER ₺/l] on the main unit again to turn the unit on.

U59

• The unit is hot.

The unit switches to standby for safety reasons. Wait for about 30 minutes until the message disappears. Select a position with good ventilation when installing the unit. Do not block the ventilation hole on the rear and side of the unit.

HDMI ONLY

• Some BD-Video discs can only be output with HDMI.

NET

• While connecting to a network.

No PLAY

There is a viewing restriction on a BD-Video or DVD-Video.
 (⇒ 31)

No READ

• The media is dirty or badly scratched. The unit cannot play.

PLEASE WAIT

 The unit is carrying out an internal process. This is not a malfunction. You cannot operate the unit while "PLEASE WAIT" is displayed.

SET \square

(" \(\sigma\) " stands for a number.)

The remote control and main unit are using different codes.
 Change the code on the remote control.

Press and hold [OK] and the indicated number button at the same time for more than 5 seconds.



H□□ or F□□

(" " stands for a number.)

- Check and correct the speaker cable connections.
- There is something unusual.
- Check the unit using the troubleshooting guide. If the service number does not disappear, do the following.
- ① Disconnect the plug from the household AC outlet, wait a few seconds, then reconnect it.
- ② Press [POWER O/I] to turn the power on. If the service number does not disappear despite doing the above, request service from the dealer. Inform the dealer of the service number when requesting service.

UPD□/□

(" \square " stands for a number.)

• The firmware is being updated. Please do not turn off power.

IPOD OVER CURRENT ERROR

• The iPod/iPhone is drawing too much power. Remove the iPod/iPhone, and turn the unit off and on again.

START

The system is being restarted during the firmware update.
 Please do not turn off power.

FINISH

• The firmware update is completed.

NOT CONDITIONAL

• The requested operation cannot be conducted.

Supplemental information

■ Display languages list

Display	Language	Display	Language	Display	Language
ENG	English	JPN	Japanese	ARA	Arabic
FRA	French	CHI	Chinese	HIN	Hindi
DEU	German	KOR	Korean	PER	Persian
ITA	Italian	MAL	Malay	IND	Indonesian
ESP	Spanish	VIE	Vietnamese	MRI	Maori
NLD	Dutch	THA	Thai	BUL	Bulgarian
SVE	Swedish	POL	Polish	RUM	Romanian
NOR	Norwegian	CES	Czech	GRE	Greek
DAN	Danish	SLK	Slovak	TUR	Turkish
POR	Portuguese	HUN	Hungarian	*	Others
RUS	Russian	FIN	Finnish		

■ Language code list

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

File format

File format	Extension	Reference
MP3	".MP3", ".mp3"	ID3 tags (Only titles and the names of artists)
JPEG	".JPG", ".jpg"	MOTION JPEG and Progressive JPEG is 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.

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

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and other countries.

Manufactured under license from Dolby Laboratories.

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

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,392,195; 7,272,567; 7,333,929; 7,212,872 & other U.S. and worldwide patents issued & pending.

DTS and the Symbol are registered trademarks, & DTS-HD, DTS-HD Master Audio | Essential and the DTS logos are trademarks of DTS, Inc. Product includes software.

© 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.

This product is licensed under the AVC patent portfolio license and VC-1 patent portfolio license for the personal and non-commercial use of a consumer to (i) encode video in compliance with the AVC Standard and VC-1 Standard ("AVC/VC-1 Video") and/or (ii) decode AVC/VC-1 Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed to provide AVC/VC-1 Video. No license is granted or shall be implied for any other use. Additional information may be obtained from MPEG LA, LLC.

See http://www.mpegla.com.

HDAVI Control™ is a trademark of Panasonic Corporation.

VIERA Link™ is a trademark of Panasonic Corporation.

VIERA CAST™ is a trademark of Panasonic Corporation.

EZ Sync™ is a trademark of Panasonic Corporation.

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

"AVCHD" and the "AVCHD" logo are trademarks of Panasonic Corporation and Sony Corporation.

SDXC Logo is a trademark of SD-3C, LLC.

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

YouTube and Picasa are trademarks of Google, Inc.



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

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

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

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

This product incorporates the following software:

- the software developed independently by or for Panasonic Corporation.
- (2) the software owned by third party and licensed to Panasonic Corporation.
- (3) the software licensed under the GNU General Public License, Version 2 (GPL v2),
- (4) the software licensed under the GNU LESSER General Public License, Version 2.1 (LGPL v2.1) and/or.
- (5) open sourced software other than the software licensed under the GPL v2 and/or LGPL v2.1

For the software categorized as (3) and (4), please refer to the terms and conditions of GPL v2 and LGPL v2.1, as the case may be at http://www.gnu.org/licenses/old-licenses/gpl-2.0.html and http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. In addition, the software categorized as (3) and (4) are copyrighted by several individuals. Please refer to the copyright notice of those individuals at

http://www.am-linux.jp/dl/AWBPP11

The GPL/LGPL software is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

At least three (3) years from delivery of products, Panasonic will give to any third party who contacts us at the contact information provided below, for a charge no more than our cost of physically performing source code distribution, a complete machine-readable copy of the corresponding source code covered under GPL v2/LGPL v2.1.

Contact Information cdrequest@am-linux.jp

Source code is also freely available to you and any other member of the public via our website below.

http://www.am-linux.jp/dl/AWBPP11

For the software categorized as (5) includes as follows.

- This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)
- This product includes software developed by the University of California, Berkeley and its contributors.
- 3. FreeType code.
- 4. The Independent JPEG Group's JPEG software.

gSOAP Public License 1.3

Part of the software embedded in this product is gSOAP software. Portions created by gSOAP are Copyright (C) 2001-2009 Robert A. van Engelen, Genivia inc. All Rights Reserved.

THE SOFTWARE IN THIS PRODUCT WAS IN PART PROVIDED BY GENIVIA INC AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

VQT3M40

Specifications

GENERAL

Power consumption:

Power consumption

in standby mode: Approx. 0.4 W AC 120 V, 60 Hz Power supply:

iPod/iPhone Connector: DC OUT 5 V 1.0 A MAX Dimensions (W \times H \times D): 430 mm×38 mm×279 mm $(16^{15}/_{16}" \times 1^{1}/_{2}" \times 10^{31}/_{32}")$ Mass (Weight):

Approx. 2.7 kg (6 lbs) (Dimensions and Weight do not

85 W

include speakers)

(no condensation)

Operating temperature range: 0 °C to 40 °C (32 °F to 104 °F) Operating humidity range: 35 % to 80 % RH

AMPLIFIER SECTION

RMS TTL POWER OUTPUT: 1000 W 1 kHz, 10 % total harmonic distortion

FRONT: 160 W per ch (3 Ω) CENTER: 160 W per ch (3 Ω) SURROUND: 160 W per ch (3 Ω)

100 Hz, 10 % total harmonic distortion

SUBWOOFER: 200 W per ch (3 Ω)

FTC TTL POWER OUTPUT: 430 W

120 Hz to 20 kHz, 1.0 % total harmonic distortion FRONT: 60 W per ch (3 Ω) CENTER: 90 W per ch (3 Ω) SURROUND: 60 W per ch (3 Ω) 45 Hz to 120 Hz, 1.0 % total harmonic distortion

SUBWOOFER: 100 W (3 Ω)

Audio Input

AUX: × 1

Digital Audio Input

Optical:

32 kHz, 44.1 kHz, 48 kHz Sampling frequency: **Audio Format:** PCM, Dolby Digital, DTS

FM TUNER SECTION

Frequency range: 87.9 MHz to 107.9 MHz (200 kHz step),

87.5 MHz to 108.0 MHz (100 kHz step)

Antenna terminals: 75 Ω (unbalanced)

SPEAKER SECTION

FRONT SPEAKERS **SB-HF270**

> 1 WAY 1 SPEAKER Bass-ref. Type: Full range: 6.5 cm (21/2") CONE TYPE

Impedance: ЗΩ

78 dB/W (1 m) Output sound pressure:

Frequency range: 105 Hz to 25 kHz (-16 dB),

130 Hz to 22 kHz (-10 dB) 80 mm×117 mm×70.5 mm

Dimensions (W \times H \times D): $(3^{5/32''} \times 4^{19/32''} \times 2^{15/16''})$ Mass (Weight): Approx. 0.35 kg (0.77 lbs) CENTER SPEAKER SB-HC270

> 1 WAY 1 SPEAKER Bass-ref. Type: Full range: 6.5 cm (21/2") CONE TYPE

Impedance: 3 O

Output sound pressure: 79 dB/W (1 m)

Frequency range: 90 Hz to 25 kHz (-16 dB), 115 Hz to 22 kHz (-10 dB) Dimensions (W \times H \times D): 145 mm×81 mm×70.5 mm $(5^{23}/_{32}" \times 3^3/_{16}" \times 2^{15}/_{16}")$

Mass (Weight): Approx. 0.5 kg (1.1 lbs)

SURROUND SPEAKERS SB-HS270

Type: 1 WAY 1 SPEAKER Bass-ref. Full range: 6.5 cm (21/2") CONE TYPE

Impedance: 3Ω

Output sound pressure: 78 dB/W (1 m)

105 Hz to 25 kHz (-16 dB), Frequency range: 130 Hz to 22 kHz (-10 dB) Dimensions (W \times H \times D): 80 mm×117 mm×70.5 mm $(3^5/_{32}" \times 4^{19}/_{32}" \times 2^{15}/_{16}")$

Mass (Weight): Approx. 0.35 kg (0.77 lbs)

SUBWOOFER SB-HW270

Mass (Weight):

Type: 1 WAY 1 SPEAKER Bass- ref. Woofer: 16 cm (61/2") CONE TYPE

Impedance:

Output sound pressure: 78 dB/W (1 m)

40 Hz to 220 Hz (-16 dB), 45 Hz to 180 Hz (-10 dB) Frequency range: Dimensions (W \times H \times D): 145 mm×289.5 mm×258 mm

 $(5^{23}/_{32}" \times 11^{13}/_{32}" \times 10^{5}/_{32}")$ Approx. 2.8 kg (6.2 lbs)

TERMINAL SECTION

Ethernet: 10BASE-T/100BASE-TX 1 system

SD card slot: Connector: 1 system

VIDEO SECTION

Signal system: NTSC

Video output

Output level: 1.0 Vp-p (75 Ω) Output connector: Pin jack (1 system)

HDMI AV output

Output format: 1080p/1080i/720p/480p

Output connector: Type A (19 pin)

This unit supports "HDAVI Control

5" function.

LASER Specification: Class I LASER Product

790 nm (CDs)/655 nm (DVDs)/ 405 nm (BDs) Wave length:

Laser power: No hazardous radiation is emitted

with the safety protection

Specifications are subject to change without notice.

Limited Warranty

Panasonic Consumer Electronics Company, **Division of Panasonic Corporation of North America**

One Panasonic Way, Secaucus, New Jersey 07094

Panasonic Blu-ray and DVD Products Limited Warranty

Limited Warranty Coverage (For USA and Puerto Rico Only)

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company (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 repair, replace or refund will be made by the warrantor.

Product or Part Name	Parts	Labor
Blu-ray Disc Player, Portable Blu-ray Disc Player	1 year	90 days
Blu-ray Home Theater System	1 year	1 year
DVD Player, Portable DVD Player	1 year	90 days
DVD Recorder	1 year	90 days
Rechargeable Batteries (pack), DVD-RAM Disc (defective exchange)	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 or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is".

Mail-In Service

For assistance in the U.S.A. and Puerto Rico in obtaining repairs, please ship the product prepaid to:

Panasonic Exchange Center 4900 George McVay Drive Suite B McAllen, TX 78503 panacare@us.panasonic.com

When shipping the unit, carefully pack, include all accessories, and send it prepaid, adequately insured and preferably in the original carton. If Lithium Ion batteries are shipped by air the package must be labeled "Contains Lithium Ion Battery (No lithium metal)". Damaged batteries are prohibited from shipment by US Mail. Batteries must be securely packed in a manner to prevent short-circuiting and a package cannot contain more than 3 Lithium Ion batteries. 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/PROOF OF 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". 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 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 (United States and Puerto Rico)

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: http://www.panasonic.com/help 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 9am-9pm, Saturday-Sunday 10am-7pm EST

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

Accessory Purchases (United States and Puerto Rico)

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:

npcparts@us.panasonic.com You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only)

(Monday-Friday 9am-9pm 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

As of November 2009

User memo:	
DATE OF PURCHASE DEALER NAME	
DEALER ADDRESS	
TELEPHONE NUMBER	

The model number and serial number of this product can be
ound on either the back or the bottom of the unit.
Please note them in the space provided below and keep for
uturo reference

MODEL NUMBER	SC-BTT268
SERIAL NUMBER	

VOT3M40

Index

A
Audio
Changing audio
⑤ BD-Live21
⊙ Chapter21
5 File format
D Pod/iPhone

AN1	5
anguage	
Audio	1
Menu	2
On-screen	2
Soundtrack	C
Subtitle	2
)	
letwork	
Connection	5
Setting	4
laylists	1
op-up menu2	
Juick Start 3	,

B	
Radio	24
Re-master	31
Restore Default Settings	34
Resume play function	20
Subtitle	30
Ø	
VIERA CAST™	29
VIERA Link™ "HDAVI Control™" :	26
24p 30,	22
3D	22























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

Panasonic Consumer Electronics Company, Division of Panasonic Corporation of North America



One Panasonic Way, Secaucus, New Jersey 07094 http://www.panasonic.com Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com