

Panasonic[®]

Owner's Manual Blu-ray Disc™ Player

Model No. DMP-BDT500



Unless otherwise indicated, illustrations in this Owner's Manual are of DMP-BDT500 for U.S.A.

Thank you for purchasing this product.

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

Please keep this manual for future reference.

If you have any questions, visit:

U.S.A. and Puerto Rico : www.panasonic.com/support



Canada : www.panasonic.ca/english/support

IMPORTANT SAFETY INSTRUCTIONS

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

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



	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL</p>		



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



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

THE FOLLOWING APPLIES IN THE U.S.A. AND CANADA

This device complies with Part 15 of FCC Rules and RSS-Gen of IC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

Contains FCC ID: MCLT77H330

Contains IC:2878D-T77H330

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that is deemed to comply without maximum permissible exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20cm (7 7/8") or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

THE FOLLOWING APPLIES ONLY IN THE U.S.A. FCC Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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 (2) this device must accept any interference received, including interference that may cause undesired operation.

Declaration of Conformity

Trade Name: Panasonic

Model No.: DMP-BDT500

Responsible Party:

Panasonic Corporation of North America

Two Riverfront Plaza, Newark, NJ 07102-5490

Support Contact: <http://www.panasonic.com/contactinfo>

THE FOLLOWING APPLIES ONLY IN CANADA.

This Class B digital apparatus complies with Canadian ICES-003.

WARNING

Unit

To reduce the risk of fire, electric shock or product damage,

- Do not expose this unit to rain, moisture, dripping or splashing.
- Do not place objects filled with liquids, such as vases, on this unit.
- Use only the recommended accessories.
- Do not remove covers.
- Do not repair this unit by yourself. Refer servicing to qualified service personnel.

AC power supply cord

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

SD card

- Keep the Memory Card out of reach of children to prevent swallowing.

CAUTION

Unit

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

Placement

To reduce the risk of fire, electric shock or product damage,

- Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure this unit is well ventilated.
- Do not obstruct this unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.
- Do not place the unit on amplifiers/receivers or equipment that may become hot. The heat can damage the unit.

Batteries

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

- 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.
- 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 - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. <small>FROM SICRIFCLASS 2 (EU)</small>
CAUTION - CLASS 2 VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO THE BEAM. <small>IEC60825-1CLASS 2</small>
ATTENTION - RAYONNEMENT LASER VISIBLE ET INVISIBLE, CLASSE 2, EN CAS D'OUVERTURE. NE PAS REGARDER DANS LE FAISCEAU.
FORSIGTIG - SYNLIG OG USYNLIG LASERSTRÅLING KLASSE 2, NÅR LÅGET ER ÅBENT. UNDGÅ AT SE IGE IND I STRÅLEN.
VARO - AVATTASSA OLET ALLTINNA LUOKAN 2 NÄKYVÄÄ JA NÄKYMÄTÖNTÄ LASERSÄTELYÄ, ALÄ TUJOTA SÄTEESEÄ.
VARNING - KLASS 2 SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN.
VORSICHT - SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG KLASSE 2, WENN ABDECKUNG GEÖFFNET. NICHT IN DEN STRAHL BLICKEN.
注意 - 打开时有可见及不可见激光辐射。避免光束照射。
注意 - ここを開くとクラス2の可視及び不可視レーザー放射が出る ビームをのぞき込まないこと <small>VQL2P54</small>

(Inside of product)

Table of contents

Getting started

IMPORTANT SAFETY INSTRUCTIONS	2
Accessories	4
Unit and media care	4
Playable media	5
Control reference guide	7
Using the touchpad	8

Connections & Settings

STEP 1 : Connecting to a TV	10
STEP 2 : Connecting to an amplifier/receiver	11
STEP 3 : Connecting to the network	13
STEP 4 : Connecting to an AC power source	13
STEP 5 : Settings	14

Playback

Inserting or removing media	17
HOME menu	17
Multi User Mode	18
Playback	19
VIERA Connect (Enjoying NETFLIX, etc.)	22
Home Network feature	23
VIERA Link™ "HDAVI Control™"	24

Settings

Option menu	25
Setup menu	28

Reference

Troubleshooting guide	34
Messages	37
Supplemental information	38
Precautions of Wireless LAN connection	39
Specifications	39
Limited Warranty	44
Referencia rápida en español (Spanish Quick Reference)	46
Index	Back cover

- **Restriction on use of unauthorized copied content (⇒ 40)**
- **About Firmware updates (⇒ 16)**

Accessories

Check the supplied accessories before using this unit.

- 1 **Remote control**
(N2QAYB000766)
- 2 **Batteries for remote control**
- 1 **AC power supply cord**
(K2CB2CB00022)

For Canada

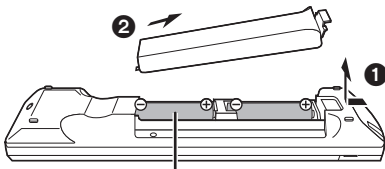
The enclosed Canadian French label sheet corresponds to the English display on the unit.



- Product numbers provided in this Owner's Manual correct as of February 2012. These may be subject to change.
- Do not use AC power supply cord with other equipment.

■ Using the remote control

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



LR6, AA
(Alkaline batteries)

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

Unit and media care

■ Clean this unit with a soft, dry cloth

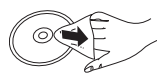
- Never use alcohol, paint thinner or benzene to clean this unit.
- Before using chemically treated cloth, carefully read the instructions that came with the cloth.

■ This unit's 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 disc cleaning sprays, benzene, 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. (⇒ 34, "To return all settings to the factory preset.")

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

Playable media

Type	Logo examples	Type detail	Playable contents
BD		BD-Video	Video
		BD-RE	Video, JPEG, MPO
		BD-R	Video, DivX® For Canada , MKV
DVD		DVD-Video	Video
		DVD-R	Video, AVCHD, DivX® For Canada , MKV, JPEG, MPO, FLAC, MP3, WAV
		DVD-R DL	
		DVD-RW	Video, AVCHD
	—	+R/+RW/+R DL	
CD		Music CD	Music [CD-DA]
	—	CD-R CD-RW	DivX® For Canada , MKV, JPEG, MPO, FLAC, MP3, Music [CD-DA], WAV
SD		SD Memory Card (from 8 MB to 2 GB) SDHC Memory Card (from 4 GB to 32 GB) SDXC Memory Card (48 GB, 64 GB) (Compatible with both mini and micro types)	AVCHD, AVCHD 3D, MP4, MPEG2, JPEG, MPO
USB	—	USB devices (up to 2 TB)	DivX® For Canada , MP4, MPEG2, MKV, JPEG, MPO, FLAC, MP3, WAV

• See pages 6 and 40 for more information on the types of content that can be played.

■ 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
- **For U.S.A.** : All types of DivX discs
- **For Canada** : DivX Plus HD discs
- PAL discs
- HD DVD
- BD-Video discs recorded at a rate of 50 fields/sec

■ Region management information

BD-Video

This unit can play BD-Video discs supporting the region code "A".

Example:



DVD-Video

This unit can play DVD-Video discs supporting 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.

■ 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. (⇒ 27)

■ 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.

■ 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.
- 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 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.
- Usable memory may be slightly less than the card capacity.



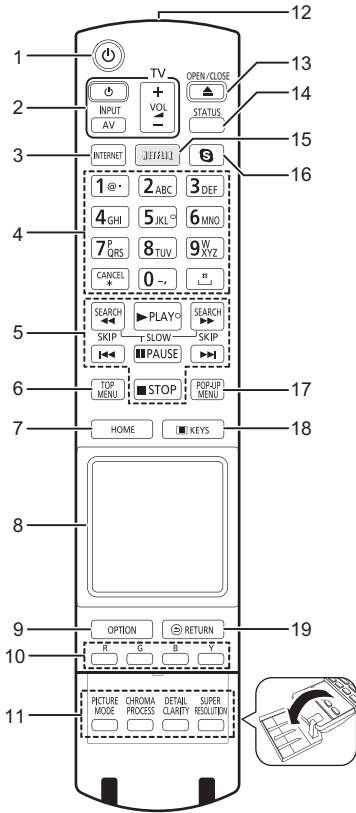
■ USB device

- This unit does not guarantee connection with all USB devices.
- This unit does not support USB device charging.
- FAT12, FAT16, FAT32, and NTFS file systems are supported.
- This unit supports USB2.0 High Speed.
- This unit supports an HDD formatted in FAT32 and NTFS. If the HDD is not recognized, the power to the HDD may not be supplied. Supply power from an external source.

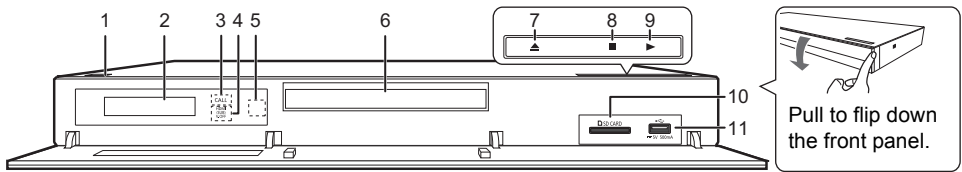


- It may not be possible to play the above media in some cases due to the type of media, the condition of the recording, the recording method, and how the files were created.
- The producers of the disc can control how discs are played, so you may not always be able to control play as described in this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

Control reference guide



- 1 Turn the unit on and off
- 2 TV operation buttons
You can operate the Panasonic TV through the unit's remote control. (Depending on the TV these buttons may not work.)
[TV] : Turn the television on and off
[AV] : Switch the input select
[+ - VOL] : Adjust the volume
- 3 Show the Home screen of the VIERA Connect (⇒ 22)
- 4 Select title numbers, etc./Enter numbers or characters
[CANCEL] : Cancel
- 5 Basic playback control buttons (⇒ 19)
- 6 Show Top menu (⇒ 20)
- 7 Show HOME menu (⇒ 17)
- 8 Touchpad (⇒ 8)
Used for various operation
Move the highlight, confirm the selection, etc.
- 9 Show Option menu (⇒ 25)
- 10 Colored buttons
Used for various purposes depending on the display
- 11 Video option buttons (⇒ 26)
- 12 Transmit the remote control signal
- 13 Open or close the disc tray (⇒ 17)
- 14 Show status messages (⇒ 20)
- 15 Show NETFLIX screen (⇒ 22)
- 16 Start up a video communication (⇒ 22)
- 17 Show Pop-up menu (⇒ 20)
- 18 Show KEYS screen on the screen (⇒ 9)
- 19 Return to previous screen



- 1 **Standby/on switch*** (⏻/⏻) (⇒ 14)
Touch 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 Display
- 3 **CALL LED**
The LED will light up when this unit receives incoming call etc. of the video communication. (⇒ 22)
- 4 **V.OFF LED (Video off LED)**
It is possible to set the LED to turn on/off. (⇒ 33)

- 5 Remote control signal sensor
Distance: Within approx. 7 m (23 feet)
Angle: Approx. 20° up and down, 30° left and right
- 6 Disc tray (⇒ 17)
- 7 Open or close the disc tray* (⇒ 17)
- 8 Stop* (⇒ 19)
- 9 Start play* (⇒ 19)
- 10 SD card slot (⇒ 17)
- 11 USB port (⇒ 17)

* These buttons work just by touching the marks.
The volume of operation sound can be adjusted by "Unit Operation Sound". (⇒ 33)

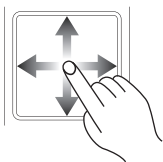
Using the touchpad

The touchpad of the remote control is used for various operations such as moving the highlight or pointer, confirming the selection, playback control, entering characters, etc.

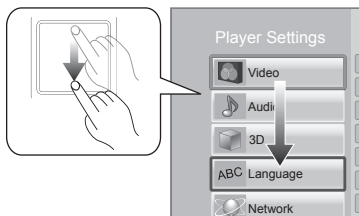
Basic touchpad operation

■ Move the highlight or the pointer

While touching the touchpad, the highlight or pointer will move according to the movement of your finger.

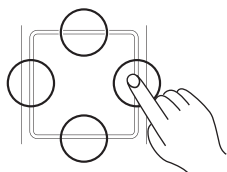


e.g.,



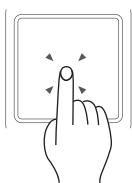
You can move the highlight continuously to up, down, left and right, by touching and holding an edge of the touchpad.

- It may not work depending on the screen.



■ Confirm the selection

Tap the touchpad to confirm the selection. Release your finger as soon as it touches the touchpad.



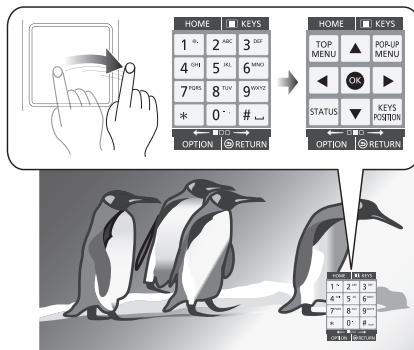
■ Switching the screen

Some screens can be switched by lightly flicking your finger horizontally or vertically on the touchpad.

Flick your finger quickly and release from the touchpad.

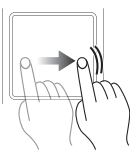


e.g.,

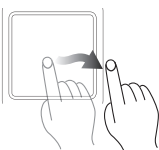


Bad example of flicking

Finger stops on the touchpad



Movement is too slow



- It may not operate correctly in following cases:
 - Operate with your fingernails
 - Operate wearing gloves
 - Operate with wet hand
- Do not press the touchpad with pointed objects such as ballpoint pen, etc., or press with excessive force.

Using the KEYS screen

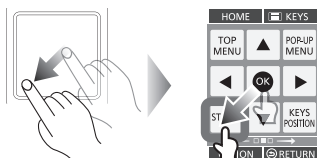
The KEYS screen that can perform item selection, playback control, text input, etc., is displayed on the screen when [KEYS] is pressed. KEYS screen operation will take priority over all other operation on the screen.

1 Select the screen to operate by pressing on [KEYS] several times.

(⇒ below, Types of KEYS screen)

- Screen can also be switched by flicking horizontally.

2 Move the pointer onto the key to select.



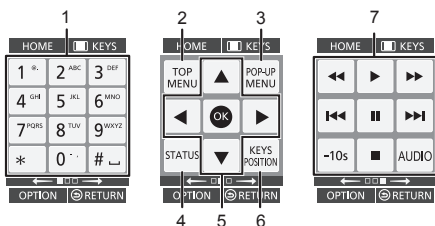
3 Release your finger and then tap.

To hide the KEYS screen

Press [RETURN].

■ Types of KEYS screen

Following screens switch in turn each time [KEYS] is pressed.



- 1 Select title numbers, etc./Enter numbers or characters
 - 2 Show Top menu (⇒ 20)
 - 3 Show Pop-up menu (⇒ 20)
 - 4 Show status messages (⇒ 20)
 - 5 [▲, ▼, ◀, ▶] : Move the highlight for selection
[OK] : Confirm the selection
 - 6 Change the display position of the KEYS screen. The position switches each time the key is selected.
 - 7 Basic playback control buttons (⇒ 19)
- [HOME], [KEYS], [OPTION] and [RETURN] indications are only for guidance purpose. Selection of these keys is not possible on the KEYS screen.

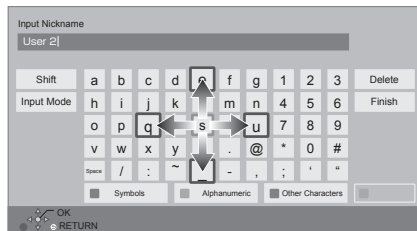
Entering characters

- 1 When the keyboard screen appears:
Move the highlight or the pointer onto "Input Mode", then tap.

You can select the input method from two types as follows. The mode switches each time "Input Mode" is selected.

Mode 1:

The highlight moves vertically or horizontally as your finger moves on the touchpad.



Mode 2:

The pointer moves freely according to the movement of your finger.

Select to move the cursor in the text box



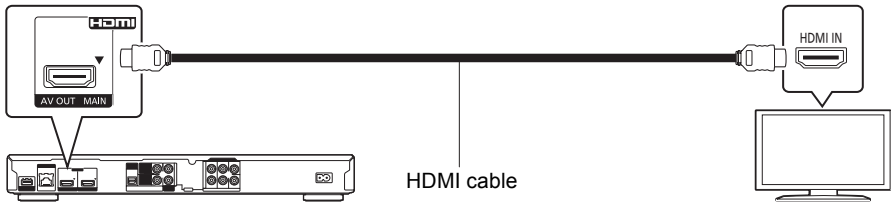
- 2 **Move the highlight or the pointer onto a key, then tap.**

STEP 1 : Connecting to a TV

Perform either one of the following connections in accordance with your TV input terminal.

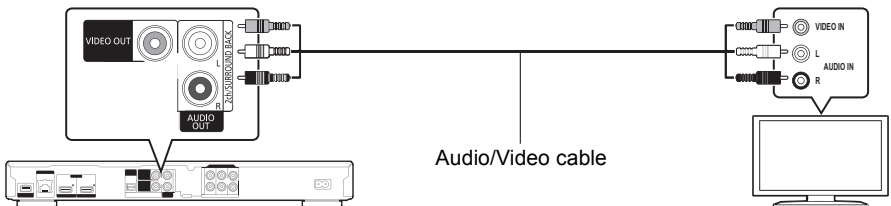
- Before making any connections, we recommend that you temporarily disconnect all the units from AC power.
- Do not connect video signals through a video recorder. Due to copy guard protection the picture may not be displayed properly.
- Use the High Speed HDMI cables. Non-HDMI-compliant cables cannot be utilized.
It is recommended that you use Panasonic's HDMI cable. When outputting 1080p signal, please use HDMI cables 5.0 meters (16.4 ft.) or less.
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.

HDMI AV OUT (High quality)



- Use HDMI AV OUT MAIN terminal.

VIDEO OUT (Standard quality)

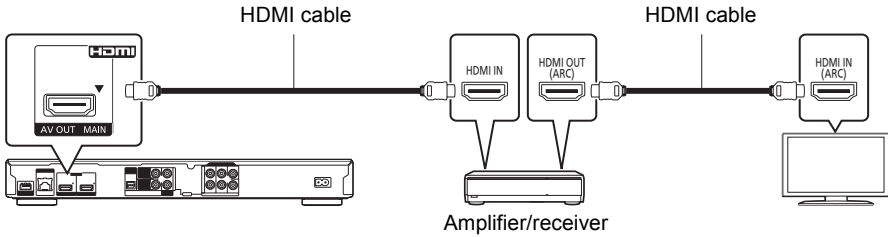


- Connect terminals of the same color.

STEP 2 : Connecting to an amplifier/receiver

Perform either one of the following connections in accordance with your amplifier/receiver input terminal.

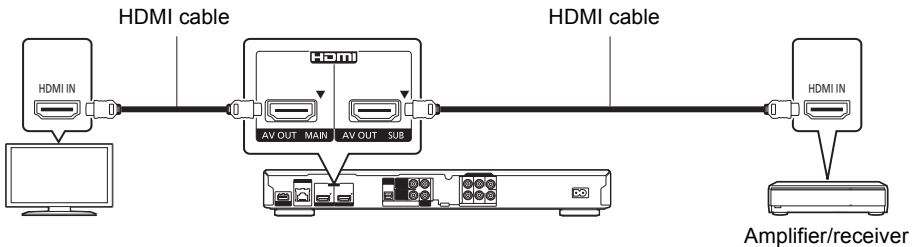
HDMI AV OUT MAIN



- Set "Digital Audio Output" (⇒ 29).
- When connecting to a non-3D compatible amplifier/receiver, connect this unit to a TV via HDMI AV OUT, then connect the TV and the amplifier/receiver. Please note, however, that the audio can only be up to 5.1ch.
- When using the TV or amplifier/receiver that does not have the indication of "(ARC)" (non-ARC-compatible) on the HDMI terminal, in order to enjoy TV's sound by amplifier/receiver it is also required to connect the amplifier/receiver and TV using an optical digital cable.

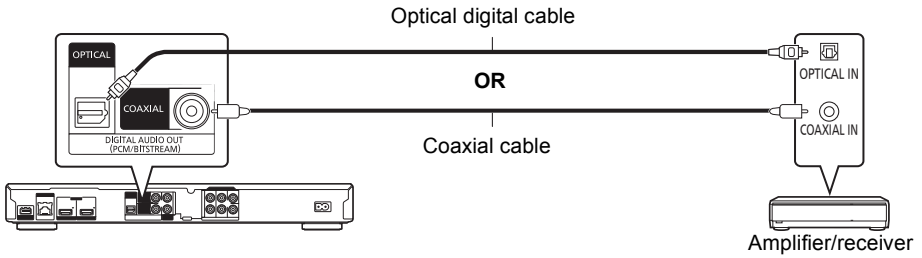
HDMI AV OUT SUB

You can enjoy richer sound by using the HDMI AV OUT SUB terminal.



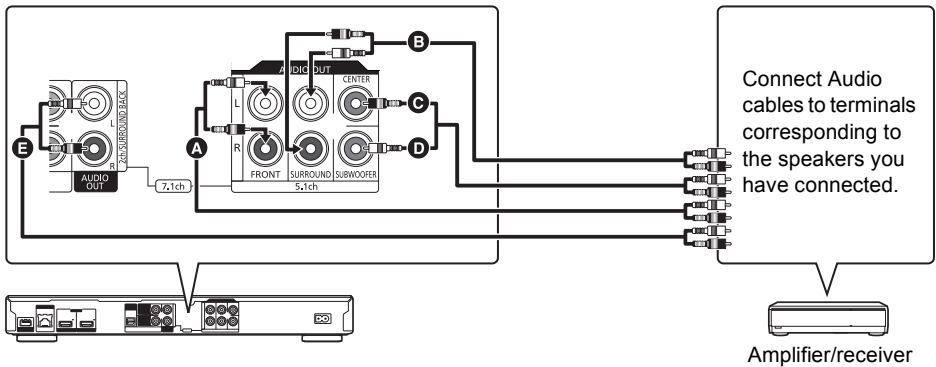
- Set "HDMI(SUB) Output Mode" to "V.OFF". (⇒ 28)
 - Audio is output in high resolution regardless of compatibility of the amplifier/receiver with 3D.
- It is possible to playback 3D videos and 3D still pictures when the connected TV is 3D compatible, even if the amplifier/receiver is not 3D compatible.
- The HDMI connection using HDMI AV OUT MAIN supports VIERA Link "HDAVI Control" (⇒ 24). The HDMI AV OUT SUB terminal is not compatible with the VIERA Link "HDAVI Control".

DIGITAL AUDIO OUT (OPTICAL or COAXIAL)



- Set "HDMI Audio Output" to "Off" (⇒ 29).
- Set "Digital Audio Output" (⇒ 29).

5.1/7.1ch AUDIO OUT



Cable connections

- A** Front speaker (L/R)
- B** Surround speaker (L/R)
- C** Center speaker
- D** Subwoofer
- E** Surround back speaker (L/R)
(Only for 7.1ch AUDIO OUT)

- Set the "Analog Audio Output" to "7.1ch" or "2ch (Downmix) + 5.1ch", depending on the used terminal (⇒ 30).
- You can set the "Analog Audio Output" from the easy setting (⇒ 14).
- When connecting equipment with HDMI AV OUT terminal, set "HDMI Audio Output" to "Off" (⇒ 29).

STEP 3 : Connecting to the network

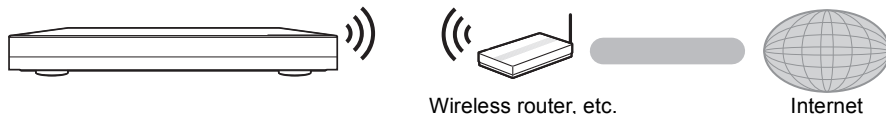
The following services can be used when this unit is connected to broadband.

- Firmware can be updated (⇒ 16)
- You can enjoy BD-Live (⇒ 21)
- You can enjoy VIERA Connect (⇒ 22)
- You can access other devices (Home Network) (⇒ 23)
- This unit supports Wi-Fi Direct™ and can make a wireless connection to wireless devices without router. You can use this function when enjoying Home Network feature, etc. Internet access is not available while connected via Wi-Fi Direct™. (⇒ 23, 31)

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

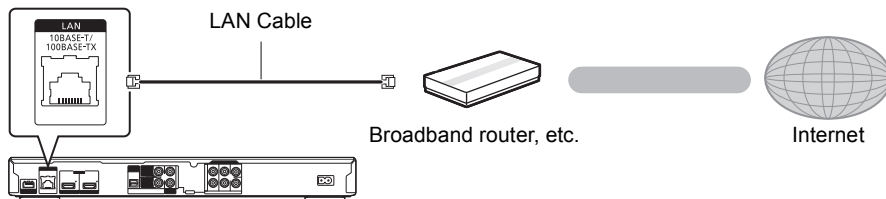
Wireless LAN connection

This unit can be connected to a wireless router wirelessly.



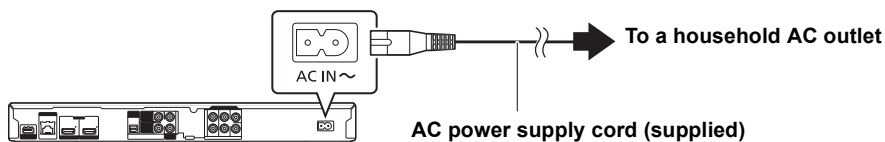
- For up-to-date compatibility information on your wireless router, refer to <http://panasonic.jp/support/global/cs/> (This site is in English only.)
For additional information about this unit refer to <http://www.panasonic.com/support> (For U.S.A.)
- The unit is not compatible with public wireless LAN services provided in airports, stations, cafes, etc.
- See page 39 for the precautions of wireless LAN connection.

LAN cable connection



- 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 : Connecting to an AC power source



- This unit consumes a small amount of AC power (⇒ 39) even when turned off. In the interest of power conservation, if you will not be using this unit for an extended period of time, it can be disconnected.

STEP 5 : Settings

Easy Setting

After connecting your new player for the first time and pressing [⏻], a screen for the basic settings will appear.

Preparation

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

- 1 Press [⏻].
Setup screen appears.
- 2 Follow the on-screen instructions and apply the settings.



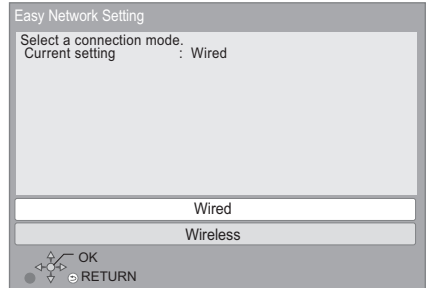
- You can perform this setup anytime by selecting “Easy Setting” in the Setup menu. (⇒ 32)
- If this unit is connected to a Panasonic TV (VIERA) supporting HDAVI Control 2 or later via an HDMI cable, then setting information on the TV such as “On-screen Language” is acquired by this unit.
- About “Analog Audio Output” setting:
Initial setting is set to “2ch (Downmix) + 5.1ch”, so you will need to select “7.1ch” if using the 7.1ch output.

Easy Network Setting

After completing “Easy Setting”, you can perform “Easy Network Setting”.

Wired connection

Select “Wired”.



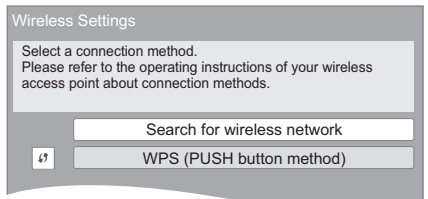
Follow the on-screen instructions to apply your connection settings.

Wireless connection

Preparation

- Obtain your network name (⇒ 15, SSID).
- If your wireless connection is encrypted, please be sure that you know your encryption key (password).

- 1 Select “Wireless”.
- 2 Select “Search for wireless network” or “WPS (PUSH button method)”, then follow the on-screen instructions and apply the settings.



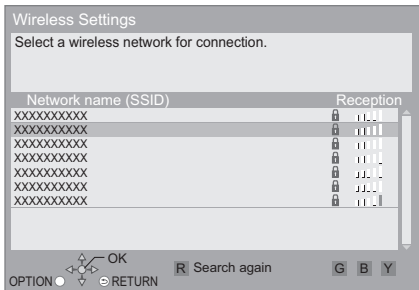
■ “WPS (PUSH button method)”

If you are using a wireless router that supports WPS (Wi-Fi Protected Setup™), you can easily perform the settings.

■ “Search for wireless network”

The available wireless networks will be displayed.

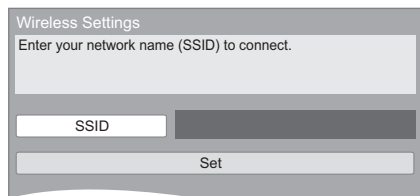
- ① Select your network name.
 - If your network name is not displayed, search again by pressing the [R] button on the remote control. Stealth SSID will not be displayed; in this case, enter manually.



To enter your network name (SSID) manually

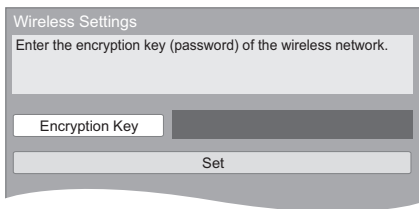
If your network name (SSID) is not displayed in step ①, follow these steps.

- 1 To display the network name (SSID) input screen :
Press [HOME] ⇒ select “Setup” ⇒ select “Player Settings” ⇒ select “Network” ⇒ select “Network Settings” ⇒ select “Wireless Settings” ⇒ select “Connection Setting” ⇒ select “Manual setting”
- 2 Tap to select “SSID” and enter your SSID.

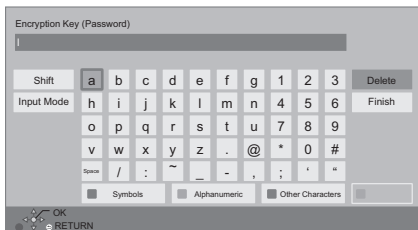


When your wireless network is encrypted

- ② Tap to select “Encryption Key”.



- ③ Enter your encryption key (password).



- If your wireless network is encrypted, go to step ②.



- Refer to the operating instructions of the hub or router.
- WPS (Wi-Fi Protected Setup) is a standard that facilitates settings relating to the connection and security of wireless LAN devices. To see whether your wireless router supports WPS, check the wireless router operating instructions.
- You can perform this setup anytime by selecting “Easy Network Setting” in the Setup menu. (⇒ 31)
- You can redo these settings individually using “Network Settings”. (⇒ 31)
- Do not use this unit to connect to any wireless network for which you do not have usage rights.
During automatic searches in a wireless network environment, wireless networks (SSID*) for which you do not have usage rights may be displayed; however, using these networks may be regarded as illegal access.
- After performing network settings on this unit, the settings (encryption level, etc.) of the wireless router might change. When you have trouble getting online on your PC, perform the network settings on your PC in accordance with the settings of the wireless router.
- 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.

* SSID:
An SSID (Service Set Identification) is a name used by wireless LAN to identify a particular network.
Transmission is possible if the SSID matches for both devices.

Reprogramming the remote control

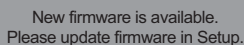
If you have more than one Panasonic player/recorder and the remote control operates both products at once, you will need to change the remote control code to prevent this occurrence. (⇒ 33, “Remote Control Code”)

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.



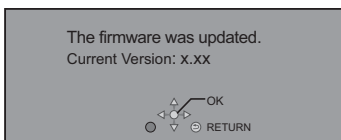
New firmware is available.
Please update firmware in Setup.

To update the firmware

Press [HOME] ⇒ select “Setup” ⇒ select “Player Settings” ⇒ select “System” ⇒ select “Firmware Update” ⇒ select “Update Now”

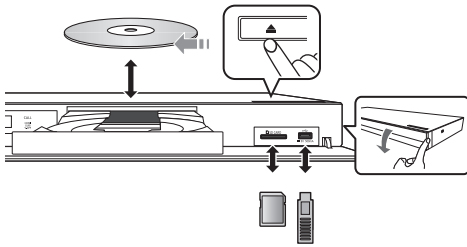
DO NOT DISCONNECT the unit from the AC power or perform any operation while the update takes place.

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.
(⇒ 33, “Firmware Version 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”. (⇒ 33)

Inserting or removing media



Notes

- When inserting a media item, ensure that it is facing the right way up.
- When removing the SD card, press the center of the card and pull it straight out.
- If you connect a Panasonic product with a USB connection cable, the setup screen may be displayed on the connected equipment. For details, refer to the instructions for the connected equipment.
- Use the front USB port when you connect a USB memory or a USB HDD. The USB port on the rear panel is only for the Communication Camera.

CAUTION

Do not place objects in front of the unit. The disc tray may collide with objects when it is opened, and this may cause malfunction.

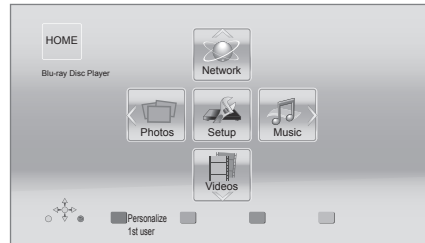
HOME menu

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 [⏻] to turn on the unit.
- 2 Operate the touchpad to select the item.
Tap to select the centered item.
Swipe or flick your finger up, down, left, or right to select other items.
 - If there are any other items, repeat this step.



Videos/Photos/Music

Disc	Play back the contents. (⇒ 19)
SD Card	<ul style="list-style-type: none"> • When multiple contents are recorded, select the types of contents or the title.
USB	

Network

Network Service	Displays the Home screen of VIERA Connect. (⇒ 22)
Home Network	DLNA Client (⇒ 23)
	Media Renderer (⇒ 23)

Setup

Player Settings	(⇒ 28)
SD Card Management	(⇒ 21)
Wallpaper	Changes the background of HOME menu.

To show the HOME menu

Press [HOME].



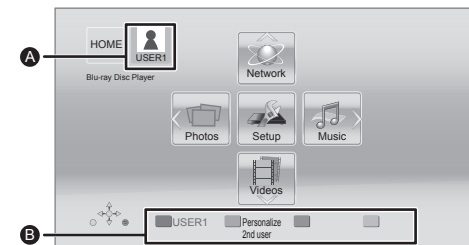
- Items to be displayed may vary with the media.

Multi User Mode

Multi User Mode is a function that enables switching of multiple settings easily. Up to 4 people can use the unit with their own settings.

The following settings can be personalized.

- The user icon
- The wallpaper of Home menu
- The audio and picture settings (⇒ 25, 28)



- A** The user name and icon currently selected
- B** Personalize a new user and switch the users with colored buttons.

Personalizing a new user

- 1 Press [HOME].
- 2 Press a colored button that indicates new user personalization.
- 3 Select an item and change the settings according to the indications.
The following items can be set.

Input Nickname	Personalize a user name.
Select Icon	<p>Personalize a user icon.</p> <p>Select from Illustrations The image can be selected from prepared illustrations.</p> <p>Create from Photos If the Communication camera is connected, you can shoot and personalize your photo.</p> <ul style="list-style-type: none"> • You can also select a photo in recording media as an icon. (⇒ 25, "Icon Personalization")
Select Wallpaper	<p>Personalize a background of the Home menu.</p> <ul style="list-style-type: none"> • Other than prepared wallpapers, you can also select a photo in recording media as a wallpaper. (⇒ 25, "Wallpaper")

Personalize Smartphone	<p>Smartphone used as a remote control can be registered with respect to each user.</p> <ul style="list-style-type: none"> • Multiple users cannot be registered for one smartphone.
-------------------------------	---

- 4 Select "Confirm".

To change the personalized user information
Select "Edit User Information" from Setup menu. (⇒ 33)

Switching the user

There are three ways to switch the user as follows.

■ Using colored buttons

Press the colored buttons in the Home menu to switch to the user corresponding to the button.

■ Using facial recognition

(Only when connected to Communication Camera ⇒ 22)

This is a function for fun using the Communication camera and enables user switching by facial recognition. Perform "Create from Photos" (⇒ left) to personalize your facial photo before using this function.

- 1 Press [OPTION] in the Home menu and select "Facial Recognition".

- 2 Turn the face to Communication Camera.

The camera captures your face and determines the closest face from the personalized user photos, and then displays the results.

- Accuracy of the recognition may be reduced depending on the captured image.

- 3 Follow the indications on the screen.

- To redo the facial recognition, press [RETURN].

■ Using registered smartphones

When the unit is turned on using the registered smartphone, the user who registered the smartphone will automatically be selected.

- Perform the "Remote Device Settings". (⇒ 31)



- To use smartphones as a remote control, installation of dedicated software is required. For more details, refer to the following website.
<http://panasonic.jp/support/global/cs/>
(This site is in English only.)

Playback

1 Insert the media.

Playback starts depending on the media.

2 Select the item to play.

Repeat this procedure if necessary.



- DISCS CONTINUE TO ROTATE WHILE MENUS ARE DISPLAYED. Press [■STOP] when you have finished playback to protect the unit's motor, your television screen and so on.
- DivX [For Canada] and MKV: Successive play is not possible.
- It is not possible to play back AVCHD and MPEG2 video which have been dragged and dropped, copied and pasted to the media.
- To save on electricity, the power is turned off automatically if there is no button operation for about 30 minutes when not playing back (such as when paused, displaying the menu, displaying still pictures, etc.). (Compatible with ENERGY STAR)

Operations during playback

Following functions may not work depending on the media and 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 [⏸PAUSE].

- Press [⏸PAUSE] again or [▶PLAY] to restart play.

Search/Slow motion

Search

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

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

Slow motion

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

- BD-Video and AVCHD: [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.

Frame-by-frame

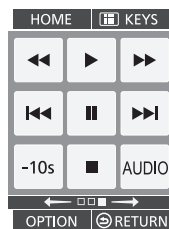
While paused, swipe your finger right or left on the touchpad.

- Press [▶PLAY] to revert to normal playback speed.
- BD-Video and AVCHD: Forward only.

Playback operations using KEYS screen

Playback operations are also possible with the KEYS screen.

1 Repeatedly press [KEYS] to display the playback control screen.



2 Select a key.

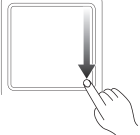
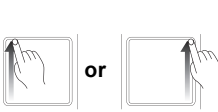
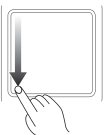
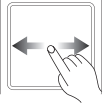
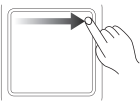

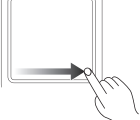
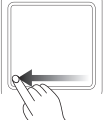
See page 9 for the KEYS screen operation.

	Stop
	Pause
	Search/Slow motion
	Skip
	Skip backward 10 seconds It will play back after skipping backward approximately 10 seconds every time the key is selected.
	Changing audio You can change the audio channel number or soundtrack language, etc.

Quick playback control

Basic operation can be performed by swiping the edge of the touchpad with your finger, such as the following.

- Perform the operation when the KEYS screen is not displayed.

	Stop
	Play
	Pause
	Frame-by-frame (during pause) Forward: Swipe your finger from left to right. Backward: Swipe your finger from right to left.
	Search forward
	Search backward
	Skip forward
	Skip backward

Displaying menus and playback information

Show top menu/pop-up menu

Press [TOP MENU] or [POP-UP MENU].

- Select the item and press [OK].

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.

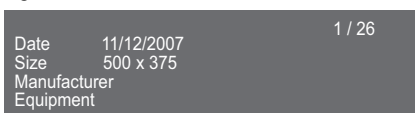
- Depending on media and contents, the display may change or may not appear.

e.g., BD-Video



- A** T: Title, C: Chapter, PL: Playlist
- B** Elapsed time in the title
- C** Current position
- D** Total time

e.g., JPEG



Enjoying 3D video and photos

Preparation

Connect 3D compatible TV to an HDMI AV OUT MAIN terminal of this unit using a High Speed HDMI Cable. (⇒ 10, 11)

- Perform the necessary preparations for the TV.
- Play back following the instructions displayed on the screen.
- 3D Settings (⇒ 27, 30)



- 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.
- 3D images may not output as settings of "HDMI Resolution" and "24p Output". (⇒ 28)
- When playing back 3D photos from "Photos" screen, select from the "3D" list. (Still pictures in "2D" are played back in 2D.)
If "2D" and "3D" indications are not displayed, press [R] to switch the view of playback contents.

Enjoying BD-Live

With "BD-Live" discs, you can enjoy bonus contents that use Internet access.

For this BD-Live function, insertion of an SD card is necessary along with Internet connection.

- 1 Perform network connection and settings.**
(⇒ 13, 14)
- 2 Insert an SD card with 1 GB or more free space.**
 - The SD card is used as the local storage.
- 3 Insert the disc.**

■ Deleting data/Formatting SD cards

Select "SD Card Management" in the Home menu (⇒ 17), then select "BD-Video Data Erase" or "Format SD Card".



- 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.
- "BD-Live Internet Access" may need to be changed for certain discs (⇒ 32).

Slideshow

Play a slideshow of photos and make various settings during the playback.

- 1 Insert the media.**
- 2 Select "Photos".**
- 3 Select an item and press [G].**

The following items can be set.

Start Slideshow	Start the slideshow. You can display still pictures in the selected folder one by one at a constant interval.
Display Interval	Change the display interval.
Transition Effect	Select the effect when sliding pictures.
Repeat Play	Set whether to repeat the slideshow.
Soundtrack	Set whether to play background music. <ul style="list-style-type: none">• FLAC, MP3 and WAV on the USB device can be played back during the slideshow of JPEG on the USB device or the SD card.• A music CD can also be played back during the slideshow of JPEG on the SD card.
Soundtrack Folder	Select the folder from which the music files are played.
Random Soundtrack	Background music is played in random order.



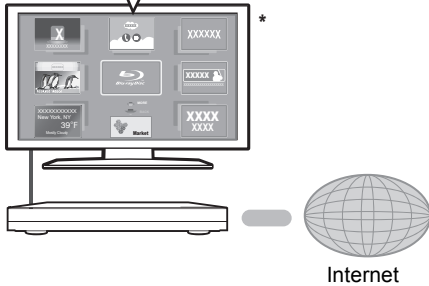
- Still pictures displayed as "☒" cannot be played back with this unit.
- When both the music CD and the USB device with recorded music are inserted into this unit, the music CD has priority to be played back as background music.

VIERA Connect (Enjoying NETFLIX, etc.)

VIERA Connect allows you to access some specific websites supported by Panasonic, and enjoy Internet contents such as photos, videos, etc. from VIERA Connect Home screen. This unit has no full browser function and all features of websites may not be available.

VIERA Connect provides a variety of selected Internet services such as the following.

- Online movie rental service
- Video communication service
- Video browsing service



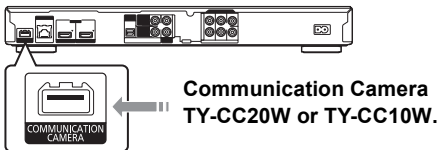
* Images are for illustration purposes, contents may change without notice.

Preparation

- Network connection (⇒ 13)
- Network setting (⇒ 14)

To enjoy video communication (e.g. Skype™) :

- Connect this unit with optional Communication Camera (TY-CC20W or TY-CC10W). Depending on your location, this optional camera may not be available. Please consult your local Panasonic dealer for advice.



- For operating method refer to the following website.
<http://panasonic.jp/support/global/cs/>
(This site is in English only.)

1 Press [INTERNET].

- The video communication service can be accessed directly by pressing [**S**] button, and NETFLIX can be accessed directly by pressing [NETFLIX] button.

2 Select the item.

To exit from VIERA Connect

Press [HOME].

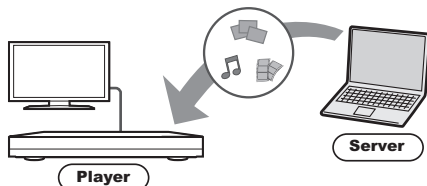


- When playing content in the media, VIERA Connect cannot be accessed by pressing [INTERNET].
- In the following cases, settings are possible using the Setup menu items.
 - When restricting the use of VIERA Connect (⇒ 32, "Network Service Lock")
 - When the audio is distorted (⇒ 31, "Audio Auto Gain Control")
 - When wrong time is displayed (⇒ 31, "Time Zone", "DST")
- 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 Connect function. (⇒ 16)
- VIERA Connect Home screen is subject to change without notice.
- The services through VIERA Connect 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.

Home Network feature

Playing back contents on the DLNA server

You can share photos, videos and music stored in the DLNA Certified media server (PC with Windows 7 installed, smartphone, etc.) connected to your home network, and enjoy the contents with this player.



Preparation

- ① Perform network connection (⇒ 13) and network settings (⇒ 14) of this unit.
- ② Perform Home Network settings of the connected equipment.
- ③ Add the contents and folder to the libraries of the Windows Media® Player or the smartphone, etc.

- Playlist of Windows Media® Player can play back only the contents that are stored in the libraries.

1 Press [HOME].

2 Select “Network”.

3 Select “Home Network”.

4 Select “DLNA Client”.

- The list can be updated by pressing [R] on the remote control.
- The connection method can be switched to Wi-Fi Direct by pressing [G] on the remote control.

5 Select the equipment.

6 Select the item to play.

- You may be able to use convenient functions depending on the content by pressing [OPTION].
- Control Panel (⇒ 26) is displayed once the playback starts. Tap the touchpad if the Control Panel is not displayed, and press [RETURN] to hide the Control Panel.

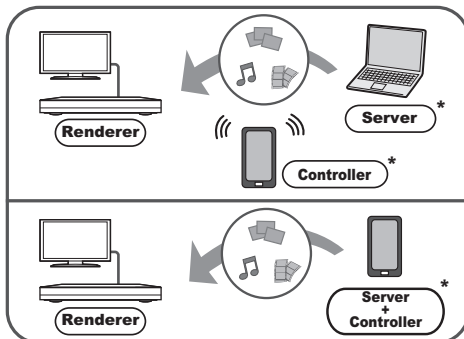
To exit from Home Network

Press [HOME].

Using the Digital Media Controller

You can use the smartphone, etc. as the Digital Media Controller (DMC) to play back contents from DLNA server on the Renderer (this unit).

Possible applications:



* DMC compatible software should be installed.

Preparation

Perform steps ① to ③. (⇒ left)

- ④ Perform the “Remote Device Settings”. (⇒ 31)
 - You can register up to 16 devices.

1 Press [HOME].

2 Select “Network”.

3 Select “Home Network”.

4 Select “Media Renderer”.

5 Select “Home Network” or “Wi-Fi Direct”, then follow the indications on the screen.

6 Operate the DMC compatible devices.

To exit from Media Renderer screen

Press [HOME].



For more details, refer to the following website and the operating instructions for each of the equipment.

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

- Wi-Fi Direct connection while using Home Network feature is only temporary, and the network connection method returns to the original setting when exiting.
- Depending on the contents and the connected equipment, playback may not be possible.
- Items displayed in gray on the display cannot be played back by this unit.
- This unit can be played back via connected equipment only when controlled using DMC.

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 which will link the operations of this unit and a Panasonic TV (VIERA) or amplifier/receiver 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.

* Only when connecting via an HDMI AV OUT MAIN terminal on this unit.

Preparation

- ① 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.

Also, when the connection or settings are changed, repeat this procedure.

Automatic input switching

Power on link

When the following operations are performed, the input channel of the television will be automatically switched and the screen of this unit will be displayed.

When the television is off, the television will automatically turn on.

- When play starts on the unit
- When an action that uses the display screen is performed (e.g., Home menu)
- When “HDMI(SUB) Output Mode” (⇒ 28) is set to “Normal” and the power of the device connected to the HDMI AV OUT SUB is turned on, the Power on link to the device connected to the HDMI AV OUT MAIN will not work.

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 power to the television

When the unit is connected to a Panasonic TV (VIERA) that supports HDAVI Control 2 or later and an amplifier/receiver supports VIERA Link.

- ① While playing music
Press [OPTION].
- ② Select “TV Power”.

Easy control only with VIERA remote control

Only when TV supports “HDAVI Control 2” or later

By using the TV remote control, you can perform various playback operations and settings. See the operating instructions of the TV for more details.




- The buttons that you can use for this unit 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 certain buttons on the TV remote control.
- This unit supports “HDAVI Control 5” function. “HDAVI Control 5” is the newest standard (current as of November, 2011) for Panasonic’s HDAVI Control compatible equipment. This standard is compatible with Panasonic’s conventional HDAVI equipment.
- 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.
- Please refer to individual manuals for other manufacturers’ equipment supporting VIERA Link function.

Option menu

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

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

About Multi User Mode

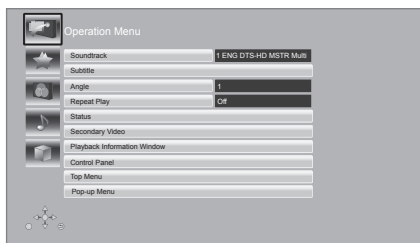
 : Settings of the items with this indication are saved by the respective users registered in the Home menu.

Please refer to page 18 for details about user registration and switching.

1 Press [OPTION].

- When playing music, select “Playback Settings”.

e.g., BD-Video



2 Select an item and change the settings.

To exit the screen

Press [OPTION].

Regarding Language : (⇒ 38)

Operation Menu

■ Soundtrack

Show or change the soundtrack.

■ Audio channel

Select the audio channel number.

■ Subtitle

Change the subtitle settings.

■ Angle

Select the number of the angle.

■ Repeat Play

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

Select the item that you want to repeat.

- The items displayed differ depending on the type of media.
- Select “Off” to cancel.

■ Shuffle

Select whether or not to play random.

■ Start Slideshow

Start the slideshow.

■ Status

Show the status messages.

■ Rotate Right

■ Rotate Left

Rotate the still picture.

■ Wallpaper

Set the still picture to the wallpaper of HOME menu. (⇒ 17)

■ Icon Personalization

Set the still picture as your user icon. (⇒ 18)

■ Video




The recording method of original video appears.

■ Secondary Video

Video	Select on/off for images. The recording method of original video appears. <ul style="list-style-type: none">• During search/slow motion or frame-by-frame, only the primary video is displayed.
Soundtrack	Select on/off for audio and language.

■ Playback Information Window

Displays the following.

	Audio/video attribute information of disc.
	Settings status of "Digital Audio Output" (⇒ 29).
	HDMI output information. (First: HDMI(MAIN), Second: HDMI(SUB))

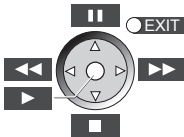
Press [RETURN] to exit.

■ Control Panel

Display the Control Panel.

Playing back while using VIERA Link, etc.

e.g.,



Tap to select the center key.

Swipe your finger up, down, left, or right to select the keys accordingly.

Press [RETURN] to hide the Control Panel.

■ Top Menu

Display Top Menu.

■ Pop-up Menu

Display Pop-up Menu.

■ Menu

Display Menu.

Personal Preference

You can access settings to enjoy special features of this unit from this category.

Refer to "Video Settings" and "Audio Settings" (⇒ 27) for more details on each setting item.

Video Settings

■ Picture Mode

Select the picture quality mode during play.

- If you select "User", you can change settings in "Picture Adjustment".

■ Picture Adjustment

Specific picture quality settings can be performed.

• 3D NR:

Reduces the rough noise in the background to give a greater feeling of depth.

When "24p Output" is set to "On", this function may not operate. (⇒ 28)

• Integrated NR:

Smooths block noise and reduces the smudging that appears around contrasting sections of the picture.

■ 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" (⇒ 28).

■ Screen Aspect

Switch the screen mode.

■ Reset to Default Video Settings

Return video settings to the factory preset.

Audio Settings

■ Sound Effects^{1,2}

Select the sound effect.

- **Night Surround:**
Enjoy a movie with powerful sound even when the volume is kept low at night. The audio is set in such a way that it can be heard easily.
- **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 setting

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

- **Digital Tube Sound:**
This feature gives you a warm sound, like that produced by a vacuum tube amplifier.
Recommended setting

Digital Tube Sound 1	A crisp, delicate sound
Digital Tube Sound 2	A tight, hi-fi sound
Digital Tube Sound 3	A soft, rich sound
Digital Tube Sound 4	A clear, powerful sound
Digital Tube Sound 5	A distinctive mid-range sound
Digital Tube Sound 6	A soft, enveloping sound

■ Dialog Enhancer²

The volume of the center channel is raised to make dialog easier to hear.

■ High Clarity Sound

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

- Only when you have selected “Enable” in “High Clarity Sound” (⇒ 30).

■ High Clarity Sound Plus

When playing back music contents, it improves the sound quality by stopping the video output.

- When “No HDMI Output” is selected, the sound is output only from the AUDIO OUT and the DIGITAL AUDIO OUT.
- Only when you have selected “Enable” in “High Clarity Sound” (⇒ 30).

¹ Not every function can be set individually.

² This function is effective for audio from HDMI AV OUT or DIGITAL AUDIO OUT only when “Digital Audio Output” is set to “PCM” (⇒ 29). (However, in this case, audio is output as 2ch from DIGITAL AUDIO OUT.)

3D Settings

■ 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 Mode

Normal	Play back pictures with normal 3D effects.
Soft	You can enjoy 3D pictures with a feeling of broadness, holding back the depth perception.
Manual	Play back 3D pictures with settings of “Manual Settings”.

■ Manual Settings

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.

■ Pop-Out Level

(Only when “Full HD” is selected in “3D Type” (⇒ 30).)


3D position for the Option menu or message screen, etc. can be adjusted during 3D playback.

Setup menu

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

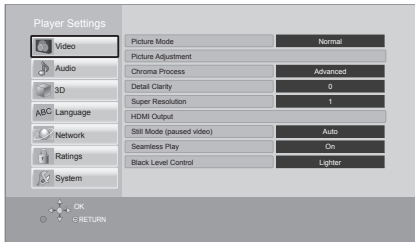
Some items in the Setup menu are common to the Option menu. You can get the same effect with both menus.

About Multi User Mode

 : Settings of the items with this indication are saved by the respective users registered in the Home menu.

Please refer to page 18 for details about user registration and switching.

- 1 Press [HOME].
- 2 Select "Setup".
- 3 Select "Player Settings".








- 4 Select an item and change the settings.

To exit the screen

Press [HOME].

Video

- **Picture Mode**  (⇒ 26)
- **Picture Adjustment**  (⇒ 26)
- **Chroma Process**  (⇒ 26)
- **Detail Clarity**  (⇒ 26)
- **Super Resolution**  (⇒ 26)

■ HDMI Output

Tap 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, the best suited output resolution to the connected television is automatically selected.
- 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, the other equipment 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 set "24p" in "Video Settings" (⇒ 26) 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.

> 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.

> HDMI(SUB) Output Mode

Set to output the video from the HDMI AV OUT SUB terminal or not.

■ 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

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

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

Audio

■ Sound Effects (⇒ 27)

■ Dialog Enhancer (⇒ 27)

■ 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

Tap 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. This unit decodes the audio format and transmits to the connected equipment.
- Not making the proper settings may result in noise.

➢ BD-Video Secondary Audio

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

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

➢ HDMI Audio Output

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

- Select "Off" when the TV is connected to this unit via HDMI AV OUT, and this unit is also connected to other devices, such as an amplifier/receiver via DIGITAL AUDIO OUT.

■ PCM Down Conversion

Select how to output audio with a sampling frequency of 96 kHz for the PCM output from the DIGITAL AUDIO OUT.

- If "On" is selected, the signals that are converted to 48 kHz are output.
- If "Off" is selected, and the connected equipment does not support 96 kHz, the sound will not be output normally.
- Signals are converted to 48 kHz despite the settings in the following cases:
 - when the signals have a sampling frequency of 192 kHz
 - when the disc has copy protection
 - when "BD-Video Secondary Audio" is set to "On"

■ Downmix

Select the downmix system of multi-channel to 2-channel sound.

- Select "Surround encoded", when the connected equipment supports the virtual surround function.
- There is no effect on "Bitstream" via HDMI AV OUT and DIGITAL AUDIO OUT.
- The audio will be output in "Stereo" in the following cases:
 - AVCHD playback
 - Playback of secondary audio (including the button click sound).

■ 7.1ch Audio Reformating

Surround sound with 6.1ch or less is automatically expanded and played back at 7.1ch.

- If "Off" is selected, sound is played over the original number of channels. (Note that in the case of 6.1ch audio, playback will be at 5.1ch.)
- Audio reformating is enabled in the following cases:
 - When you have selected "PCM" in "Digital Audio Output".
 - When the audio is Dolby Digital, Dolby Digital Plus, Dolby TrueHD or LPCM.
 - BD-Video playback

■ High Clarity Sound

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




- Select "Enable" to use "High Clarity Sound" or "High Clarity Sound Plus" in the Option menu. (⇒ 27)

■ Audio Delay

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

■ Analog Audio Output

You can set the optimum multi-channel surround sound for your speakers from this unit when the settings cannot be adjusted from a connected amplifier/receiver with AUDIO OUT terminals. Select "2ch (Downmix) + 5.1ch" or "7.1ch" and then set the following options.

- Speaker presence and size
()
- Delay time ()
- Channel balance ()

To finish the speaker setting

Select "Complete".

3D

■ 3D BD-Video Playback

Select the playback method of 3D compatible video software.

■ 3D AVCHD Output

Select the output method of 3D AVCHD videos.

■ 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.

■ Manual Settings (⇒ 27)

■ Pop-Out Level (⇒ 27)

Language

■ Audio Language

Choose the language for audio.

- If "Original" is selected, the original language of each disc will be selected.
- Enter a code (⇒ 38) when you select "Other *****".

■ Subtitle Language

Choose the language for the subtitle.


- If "Auto" 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 (⇒ 38) when you select "Other *****".

■ Menu Language

Choose the language for the disc menus.

- Enter a code (⇒ 38) when you select "Other *****".

■ Subtitle Text

Select a suitable item according to the language used for DivX  or MKV subtitles text.

- This item is displayed only after playing back a file.

■ On-screen Language

Choose the language for menus and on-screen messages.

Network

■ Easy Network Setting (⇒ 14)

■ Network Settings

Perform network-related settings individually.
Tap to show the following settings:

➤ LAN Connection Mode

Select the LAN connection method.

- Select "Wireless Master" when you make a direct wireless connection between this unit and a Home Network device. Internet connection is not available when this item is selected.

➤ Wireless Settings

This allows the wireless router and connection settings to be set. Current connection settings and connection state can be checked.

Connection Setting

The wireless router connection wizard will be displayed.

Double Speed Mode Setting (2.4GHz)

When a 2.4 GHz wireless format is used, this sets the connection speed.

- If you connect using the "Double Speed Mode (40MHz)", 2 channels use the same frequency band, and there is consequently a greater risk of reception interference. This can cause the connection speed to drop or become unstable.

➤ IP Address/DNS Settings

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

Tap to show the respective setting.

➤ Proxy Server Settings

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

Tap to show the respective setting.

➤ Network Service Settings (⇒ 22) (VIERA Connect)

Tap to show the following settings:

Audio Auto Gain Control

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

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

Time Zone

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

- Some VIERA Connect contents require the time zone to be set. Set the time zone if necessary.

DST

Select "On" when using Daylight Saving time.

➤ Network Drive Connection

It is possible to access the shared folder of equipment not compatible with DLNA, such as the Windows XP operating system, and play back video, still pictures, and music on this unit. For the setting and operation method of connected equipment, refer to the following website.

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

➤ Remote Device Settings (⇒ 23)

Tap to show the following settings:

Remote Device Operation

Enable to operate by DMC.

- If "On" is selected, "Quick Start" will be activated.

Setting Unit Name

Set the name of this unit to be displayed on the connected equipment.

Registration Type

Auto	Allow connection to all the equipment that is accessing this unit.
Manual	Set the permission of the connection individually for the equipment that is accessing this unit.

Remote Device List

Registering/deregistering of the displayed equipment can be performed when "Manual" in "Registration Type" is selected.

> 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.

Ratings

The following items use the same password. Don't forget your password.

■ DVD-Video Ratings

Set a ratings level to limit DVD-Video play.

■ BD-Video Ratings

Set an age limit of BD-Video play.

■ Network Service Lock

You can restrict the usage of VIERA Connect.

System

■ Easy Setting

You can execute basic settings.



■ Display Settings

Tap to show the following settings:

> TV Aspect

Set to match the type of television connected.

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

4:3 Pan & Scan	The sides are cut off so the picture fills the screen. When playing BD-Video, video is output as "4:3 Letterbox".	
4:3 Letterbox	Black bands appear at the top and bottom of the picture.	

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.
16:9 Full	Video is displayed as a horizontally stretched 16:9 image.

> Screen Saver Function

This is to prevent burn-in on the screen.

- When this is set to "On":
If a list of playback content is displayed and there is no operation for 10 minutes or more, the screen switches to HOME menu automatically.
- While playing and pausing, etc., this function is not available.

> Status Messages

Choose whether to show status messages automatically.

➤ **VIERA Link**

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

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

■ **Unit Settings**

Tap to show the following settings:

➤ **Front Panel Display**

Changes the brightness of the unit's display.

- If "Auto" is selected, the display is set to bright and only dimmed during playback.

➤ **HDMI(SUB) V.OFF LED Control**

Set to light the HDMI (SUB) V.OFF LED or not.

- This will light when "HDMI(SUB) Output Mode" is set to "V.OFF", and the power of the connected equipment to the HDMI AV OUT SUB is on.

➤ **Unit Operation Sound**

Set the volume of operation of this unit.

➤ **Edit User Information**

Change the user information registered in the Home menu.

■ **Quick Start**

Speed of startup from power off is increased.

- When set to "On", the internal control unit will be powered and the idle power consumption will increase compared to when set to "Off". (About the power consumption ⇒ 39)

■ **Remote Control Code**

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

■ **Touchpad Guide**

Show the operation guide for the touchpad.

■ **Firmware Update (⇒ 16)**

Tap 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 if a firmware update is available.

■ **System Information**

Tap to show the following settings:

➤ **License**

Information about the software used by this unit is displayed.

➤ **Firmware Version Information**

Display firmware version of this unit and wireless LAN module.

■ **DivX Registration** For Canada

You need this registration code to purchase and play DivX Video-on-Demand (VOD) content.

■ **Restore Default Settings**

This returns all values in the Setup menu and the Option menu to the default settings, except for some settings of network, ratings, remote control code, language, etc.

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. (⇒ 16)



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

For U.S.A. :

www.panasonic.com/support

Enter the model number.

For Canada :

<http://www.panasonic.ca>



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)” (⇒ 44) or “Limited Warranty (Only for CANADA)” (⇒ 45).

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 doesn't respond to remote control or front panel buttons.

Touch and hold [⏻/I] on the main unit for 3 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.

- ① While the unit is off, press and hold [KEYS], [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 Press [R] repeatedly on the remote control until “06 FTO” is displayed on the unit's display.
- ③ Press [G] on the remote control.

General operation

To return to the factory preset.

- Select “Yes” in “Restore Default Settings” in the Setup menu. (⇒ 33)

To return all settings to the factory preset.

- Reset the unit as follows:
 - ① While the unit is off, press and hold [KEYS], [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 Press [R] repeatedly on the remote control until “08 FIN” is displayed on the unit's display.
 - ③ Press and hold [G] on the remote control at least 3 seconds.

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 remote control doesn't work properly.

- Change the batteries in the remote control. (⇒ 4)
- 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. (⇒ 33, 37)

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 [KEYS], [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 Press [R] repeatedly on the remote control until “03 VL” is displayed on the unit's display.
 - ③ Press [G] on the remote control.

This unit does not recognize the USB connection correctly.

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

The buttons of the unit do not work.

- Touch the buttons with your finger. They may not work if operated with your fingernails or hands wearing gloves.

Picture

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

Picture is distorted.

- An incorrect resolution is selected in “HDMI Resolution”. Reset the setting as follows:
 - ① While the unit is on, press and hold [KEYS], [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 Press [R] repeatedly on the remote control until “04 PRG” is displayed on the unit’s display.
 - ③ Press and hold [G] on the remote control for at least 3 seconds.

Set the item again. (⇒ 28)

 - 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. (⇒ 33)
- When “3D BD-Video Playback” in the Setup menu is set to “Auto”, 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. (⇒ 30)

Video is not output.

- Set “High Clarity Sound” in the Setup menu to “Disable” to use the VIDEO OUT terminal. (⇒ 30)
- Video from the HDMI AV OUT SUB terminal is not output when the “HDMI(SUB) Output Mode” is set to “V.OFF”. (⇒ 28)

Video is not output in high-definition.

- Confirm that “HDMI Resolution” in the Setup menu is set properly. (⇒ 28)

3D video is not output.

- Change the settings as required by the connected TV format. (⇒ 30, “3D Type”)
- Is there a non-3D compatible amplifier/receiver connected between this unit and a TV? (⇒ 11)
- If there is a non-3D compatible amplifier/receiver connected to the HDMI AV OUT SUB terminal, set the “HDMI(SUB) Output Mode” to “V.OFF”. (⇒ 11)
- Are the settings on this unit and the TV correct? (⇒ 21)
- Is the amplifier/receiver that is connected between this unit and TV on?
- 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 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. (⇒ 30, “3D BD-Video Playback”)
- 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 the closed caption setting on the TV. (⇒ 25)

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. (⇒ 32)
- Adjust the aspect setting on the television.

Audio

Cannot switch audio.

- When connecting an amplifier/receiver using DIGITAL AUDIO OUT or HDMI AV OUT terminal, you cannot switch the audio if “Digital Audio Output” is set to “Bitstream”. Set “Digital Audio Output” to “PCM”. (⇒ 29)

Cannot hear the desired audio type.

- Check the connections and the “Digital Audio Output” settings. (⇒ 11, 29)
- When the unit is connected to an amplifier/receiver with the AUDIO OUT terminals, set “Analog Audio Output”. (⇒ 30)
- To output audio from a device connected with an HDMI cable, set “HDMI Audio Output” to “On” in the Setup menu. (⇒ 29)
- When connecting this unit to a TV via an HDMI AV OUT MAIN and to an amplifier/receiver via an HDMI AV OUT SUB, set “HDMI(SUB) Output Mode” to “V.OFF”. (⇒ 11)

There is no sound coming out from the TV.

- Audio may not output from the TV when the amplifier/receiver is connected to the HDMI AV OUT SUB, and “HDMI(SUB) Output Mode” (⇒ 28) is set to “V.OFF”. In such a case, output audio from the amplifier/receiver. To output audio from the TV, set the “HDMI(SUB) Output Mode” to “Normal”.

Playback

Disc cannot be played.

- The disc is dirty. (⇒ 4)

Still pictures (JPEG) do not play back normally.

- The images that were edited on the PC, such as Progressive JPEG, etc., may not be played back.

I can't play back BD-Live.

- The SD card is write-protected. (⇒ 6)
- Confirm that this unit is connected to the broadband Internet. (⇒ 13)
- Confirm the “BD-Live Internet Access” settings. (⇒ 32)
- Confirm an SD card is inserted into the SD card slot. (⇒ 17)

Network

I can't connect to the network.

- Confirm the network connection and settings. (⇒ 13, 14, 31)
- Check the operating instructions for each device and connect accordingly.

When using wireless LAN connection, video from the DLNA Certified media server is not played back or video frames are dropped during playback.

- Higher transfer rate router such as 802.11n (2.4 GHz) wireless router may solve the problem. If you use 802.11n (2.4 GHz) wireless router, it is necessary to set the encryption type to “AES”. Simultaneous use with a microwave, cordless telephone etc. at 2.4 GHz may result in connection interruptions or other problems.
- On the “Wireless Settings” screen (⇒ 31), the continuous lighting of at least 4 “Reception” indicators is the target for a stable connection. If 3 or fewer indicators are lit or the connection is being interrupted, change the position or angle of your wireless router and see if the connection state improves. If there is no improvement, connect to a wired network and perform the “Easy Network Setting” (⇒ 14) again.

Messages

The following messages or service numbers appear on the television or unit's display.

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.
- Confirm "SD" on the unit's display is not displayed and re-insert the card.

No disc inserted.

- The disc may be upside down.

⊘ This operation is not available.

- 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.)

The current wireless network security setting is weak. It is recommended to change to a stronger security setting.

- Authentication type for the wireless LAN is set to "Open system", or the encryption type is set to "No encryption". It is recommended to encrypt for safety reasons. For details, refer to the instructions of the wireless router being used. Encryption is required when playing back video, etc., from DLNA compatible devices.

On the unit's display

F99

- The unit fails to operate properly. Press [⏻/I] on the main unit for 3 seconds to switch the unit to standby, then switch back on.

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. (⇒ 32)

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.

REMOVE

- The USB device is drawing too much power. Remove the USB device.

SET □ ("□" stands for a number.)

- The remote control and main unit are using different codes. Change the code on the remote control. Press and hold [OPTION] and the following button at the same time for more than 5 seconds depending on the indication.

SET 1: [G]

SET 2: [B]

SET 3: [Y]

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.

H□□ or F□□

("□" stands for a number.)

- There is something unusual.
 - Check the unit using the troubleshooting guide. If the service number remains displayed, do the following.
- ① Disconnect the plug from the AC outlet, wait a few seconds, then reconnect it.
 - ② Press [⏻/⏻] to turn the power on.

If the service number remains displayed despite doing the above, request service from the dealer. Inform the dealer of the service number when requesting service.

START

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

UPD□/□

("□" stands for a number.)

- The firmware is being updated. Please do not turn off the unit.

FINISH

- The firmware update is complete.

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	Code
Abkhazian:	6566	Gujarati:	7185	Rhaeto-Romance:	
Afar:	6565	Hausa:	7265		8277
Afrikaans:	6570	Hebrew:	7387	Romanian:	8279
Albanian:	8381	Hindi:	7273	Russian:	8285
Amharic:	6577	Hungarian:	7285	Samoan:	8367
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; Bangla:		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

Precautions of Wireless LAN connection

The following limits are in place regarding the usage of this unit. You must be aware of these limits before using this unit.

Panasonic will in no way be responsible for any incidental damage which may arise due to a failure to obey these limits, or to any condition of use or disuse of this unit.

- **Data transmitted and received over radio waves may be intercepted and monitored.**

- **This unit contains delicate electronic components.**

Please use this unit in the manner in which it was intended and follow the following points:

- Do not expose this unit to high temperatures or direct sunlight.
- Do not bend, or subject this unit to strong impacts.
- Keep this unit away from moisture.
- Do not disassemble or alter this unit in any way.

Signal system	NTSC
Operating temperature range	+5 °C to +35 °C (+41 °F to +95 °F)
Operating humidity range	10 % to 80 % RH (no condensation)
Video output	Output level: 1.0 Vp-p (75 Ω) Output connector: Pin jack (1 system)
Audio output	Output level: 2 Vrms (1 kHz, 0 dB) Output connector: Pin jack Number of connectors: 7.1 channel discrete output 1 system (2 channel + 5.1 channel discrete output)
Digital audio output	Optical digital output (Optical terminal) Coaxial digital output (Pin jack)
HDMI AV output	Output connector: Type A (19 pin) 2 system
SD card slot	1 system
USB slot	USB2.0 2 system
Ethernet	10BASE-T/100BASE-TX 1 system
Wireless LAN	Standard Compliance: IEEE802.11 b/g/n Frequency range: 2.4 GHz band Security: WPA™/WPA2™ (Encryption Type: TKIP/AES, Authentication Type: PSK), WEP (64 bit/128 bit)
LASER Specification	Class I LASER Product Wave length: 790 nm (CDs)/ 660 nm (DVDs)/405 nm (BDs) Laser power: No hazardous radiation is emitted with the safety protection
Power supply	AC 120 V, 60 Hz
Power consumption	Approx. 11 W
Power consumption in standby mode	Approx. 0.1 W
Power consumption in quick start standby mode	Approx. 4.5 W
Dimensions (W×H×D) Including the projecting parts	430 mm×59 mm×245 mm (Approx. 16 15/16"×2 3/8"× 9 11/16")
Mass (Weight)	Approx. 2.6 kg (5.72 lbs)

- Specifications are subject to change without notice.

(Continued on the next page.)

File format

File format	Extension	Reference
MP3	“.MP3”, “.mp3”	This unit supports ID3 tags, but only titles, artist names and album names can be displayed.
JPEG	“.JPG”, “.jpg”	<ul style="list-style-type: none"> MOTION JPEG and Progressive JPEG are not supported You may not be able to play back the file if you have edited the folder structure or the file name on a PC or other device.
DivX For Canada	“.DIVX”, “.divx”, “.AVI”, “.avi” Subtitles text file “.SRT”, “.srt”, “.SUB”, “.sub”, “.TXT”, “.txt”	<ul style="list-style-type: none"> The video file and subtitles text file are inside the same folder, and the file names are the same except for the file extensions. Some DivX For Canada and MKV file may not be played back, depending on the video resolution and frame rate condition.
MKV	“.MKV”, “.mkv” Subtitles text file “.SRT”, “.srt”, “.SSA”, “.ssa”, “.ASS”, “.ass”	
FLAC	“.flac”	Maximum sampling rate: 192 kHz/24 bit
WAV	“.wav”	Maximum sampling rate: 48 kHz/16 bit
MPO	“.mpo”	3D still picture

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

Audio information

The audio output differs depending on which terminals are connected to the amplifier/receiver, and the settings on the unit. (⇒ 29, Digital Audio Output)

- The number of channels listed is the maximum possible number of output channels when connected to amplifier/receiver compatible with the respective audio format.

HDMI AV OUT/

DIGITAL AUDIO OUT (Coaxial/Optical)

Terminal	“Digital Audio Output”	
	“Bitstream”	“PCM”
HDMI AV OUT	Outputs using original audio ¹	BD-Video : 7.1ch PCM ^{1,2} DVD-Video : 5.1ch PCM
DIGITAL AUDIO OUT	Dolby Digital/ DTS Digital Surround	Down-mixed 2ch PCM

AUDIO OUT

7.1ch AUDIO OUT	BD-Video : 7.1ch ^{1,2} DVD-Video : 5.1ch
5.1ch AUDIO OUT	5.1ch
2 ch AUDIO OUT	2ch

¹ When “BD-Video Secondary Audio” is set to “On”, the audio will be output as Dolby Digital, DTS Digital Surround or 5.1ch PCM.

² The audio output is amplified from 5.1ch or 6.1ch to 7.1ch depending on the DTS, Inc. specifications.

Restriction on use of unauthorized copied content

This unit adopts the following technology for copyright protection.



Cinavia Notice

This product uses Cinavia technology to limit the use of unauthorized copies of some commercially-produced film and videos and their soundtracks. When a prohibited use of an unauthorized copy is detected, a message will be displayed and playback or copying will be interrupted.

More information about Cinavia technology is provided at the Cinavia Online Consumer Information Center at <http://www.cinavia.com>.

To request additional information about Cinavia by mail, send a postcard with your mailing address to:

Cinavia Consumer Information Center, P.O. Box 86851, San Diego, CA, 92138, USA.

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Contact Information
cdrequest.bdplayer@gg.jp.panasonic.com

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The software licenses are displayed when "License" in the Setup menu is selected. (⇒ 33)

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Limited Warranty (ONLY FOR U.S.A. AND PUERTO RICO)

Panasonic 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 Corporation of North America (referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, (b) replace it with a new or a refurbished equivalent value product, or (c) refund your purchase price. The decision to repair, replace or refund will be made by the warrantor.

Product or Part Name	Parts	Labor
Blu-ray Disc Player	1 Year	90 Days
All included Accessories (Except Non-Rechargeable Batteries)	90 Days	Not Applicable
Only Non-Rechargeable Batteries	10 Days	Not Applicable

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. This Limited Warranty excludes both parts and labor for non-rechargeable batteries, antennas, and cosmetic parts (cabinet). This warranty only applies to products purchased and serviced in the United States 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—Online Repair Request

Online Repair Request

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

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

IF REPAIR IS NEEDED DURING THE WARRANTY PERIOD, THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/ 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.

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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.**

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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/support> or, contact us via the web at: <http://www.panasonic.com/contactinfo>

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

Accessory Purchases (United States and Puerto Rico)

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Or, send your request by E-mail to: nppcparts@us.panasonic.com
You may also contact us directly at:
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(Monday-Friday 9am-9pm EST)
Panasonic National Parts Center
20421 84th Avenue South, Kent, WA 98032
(We accept Visa, MasterCard, Discover Card, American Express)

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

As of November 2013

User memo

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

MODEL NUMBER DMP-BDT500
SERIAL NUMBER _____

DATE OF PURCHASE _____
DEALER NAME _____
DEALER ADDRESS _____
TELEPHONE NUMBER _____

Limited Warranty (Only for CANADA)

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario L4W 2T3

PANASONIC PRODUCT - LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship under normal use and for a period as stated below from the date of original purchase agrees to, 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 Panasonic Canada Inc.

Technics Audio Product - One (1) year, parts and labour
Panasonic BD/DVD Product - One (1) year, parts and labour
Panasonic Audio Receivers - One (1) year, parts and labour
Home Theater Systems Product - One (1) year, parts and labour

This warranty is given only to the original purchaser, or the person for whom it was purchased as a gift, of a Panasonic brand product mentioned above sold by an authorized Panasonic dealer in Canada and purchased and used in Canada, which product was not sold "as is", and which product was delivered to you in new condition in the original packaging.

IN ORDER TO BE ELIGIBLE TO RECEIVE WARRANTY SERVICE HEREUNDER, A PURCHASE RECEIPT OR OTHER PROOF OF DATE OF ORIGINAL PURCHASE, SHOWING AMOUNT PAID AND PLACE OF PURCHASE IS REQUIRED

LIMITATIONS 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 Panasonic Canada Inc., 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 an Authorized Servicer, or damage that is attributable to acts of God.

Dry cell batteries are also excluded from coverage under this warranty.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY. (As examples, this warranty excludes damages for lost time, travel to and from the Authorized Servicer, loss of or damage to media or images, data or other memory or recorded content. This list of items is not exhaustive, but for illustration only.)

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable. This warranty gives you specific legal rights and you may have other rights which vary depending on your province or territory.

WARRANTY SERVICE

For product operation, repairs and information assistance, please visit our Support page:

www.panasonic.ca/english/support

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

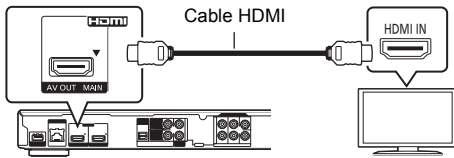
Carefully pack and send prepaid, adequately insured and preferably in the original carton.
Include details of the defect claimed, and proof of date of original purchase.

Referencia rápida en español

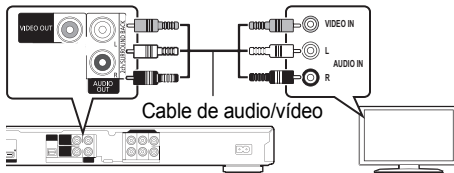
(Spanish Quick Reference)

Conexiones básicas

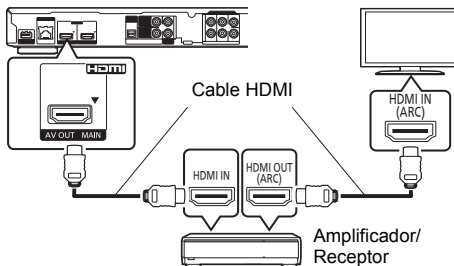
Conexión a un televisor compatible con HDMI



Conexión a un televisor con un cable para audio/vídeo

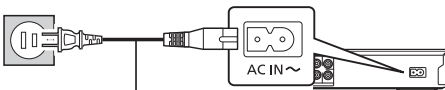


Conexión a un televisor compatible con HDMI y a un amplificador/receptor compatible con HDMI



Conecte el cable de alimentación de CA por último

A una toma de corriente doméstica



Cable de alimentación de CA (incluido)

- Conéctelo cuando haya realizado el resto de conexiones.

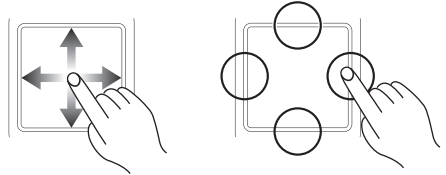
Ahorro de energía

Esta unidad consume una pequeña cantidad de energía aunque esté ajustada en el modo de espera (Accionamiento rápido : Desactivado, aprox. 0,1 W). Para ahorrar energía cuando no vaya a utilizar la unidad durante mucho tiempo, desenchúfela de la toma de corriente.

Funcionamiento básico del panel táctil

■ Mueva la parte resaltada o el puntero

Al tocar el panel táctil, la parte resaltada o el puntero se desplazará según el movimiento de su dedo.



Usted puede mover la parte resaltada en forma continua hacia arriba, abajo, la izquierda y la derecha tocando y sosteniendo un borde del panel táctil.

■ Confirmar la selección

Dé un golpe ligero sobre el panel para confirmar la selección.

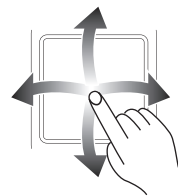
Saque el dedo ni bien haya tocado el panel táctil.



■ Cambiar la pantalla

Algunas pantallas pueden cambiarse pasando ligeramente el dedo en dirección horizontal o vertical sobre el panel táctil.

Pase el dedo rápidamente y sáquelo del panel.



Uso de la KEYS pantalla

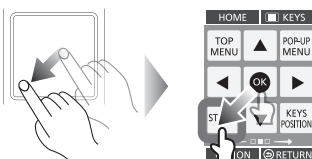
La pantalla KEYS para selección de opciones, control de reproducción, entrada de texto, etc., se visualiza cuando se pulsa [KEYS].

Las funciones de la pantalla KEYS tendrán prioridad sobre cualquier otra operación visualizada.

1 Seleccione la pantalla de funciones pulsando [KEYS] varias veces.

- Se puede cambiar de pantalla pasando el dedo en dirección horizontal.

2 Mueva el puntero hasta la tecla que desea seleccionar.



3 Saque el dedo y luego dé un golpecito suave.

Ocultar la pantalla KEYS

Pulse [RETURN].

Reproducción básica

Preparación

Encienda el televisor y seleccione la entrada de vídeo adecuada en el televisor.

1 Pulse [⏻] para encender la unidad.

Después de conectar su nuevo reproductor y pulsar el botón de encendido, aparecerá la pantalla de la configuración básica.

2 Inserte el medio.

Inicia la reproducción

Pulse [▶PLAY].

Parada

Pulse [■STOP].

La posición de detención se memoriza.

Función de reanudación de la reproducción

Pulse [▶PLAY] para reiniciar la reproducción desde esta posición.

- La posición se borra si se abre la bandeja o se pulsa [■STOP] varias veces para visualizar "STOP" en el visor de la unidad.
- En los discos BD-Vídeo incluidos los BD-J, la función de reanudación de la reproducción no funciona.

Pausa

Pulse [⏸PAUSE].

- Pulse [⏸PAUSE] otra vez o [▶PLAY] para reiniciar la reproducción.

Búsqueda/Cámara lenta

Búsqueda

Durante la reproducción, pulse [SEARCH◀◀] o [SEARCH▶▶].

- Música y MP3: La velocidad está fija en un paso.

Cámara lenta

Durante la pausa, pulse [SEARCH◀◀] o [SEARCH▶▶].

- BD-Vídeo y AVCHD: Sólo dirección en avance [SEARCH▶▶].

La velocidad aumenta hasta 5 pasos.

- Pulse [▶PLAY] para recuperar la velocidad de reproducción normal.

Salto

Durante la reproducción o la pausa, pulse [◀◀] o [▶▶].

Salta hasta el título, capítulo o pista que desee reproducir.

Index

A Audio		M Media Renderer	23	V VIERA Connect	22
Changing audio	19	Multi User Mode	18	VIERA Link™	
Language	30, 38	N Network		“HDAVI Control™”	24
B BD-Live	21	Connection	13	W Wireless LAN	13
D DivX	40	Setting	14, 31	24p	26, 28
DLNA	23	P Pop-up menu	20	3D	21
F File format	40	Q Quick Start	33		
Firmware update	16	R Re-master	27		
K KEYS screen	9	Restore Default Settings	33		
L LAN	13	Resume play function	19		
Language		S Subtitle	25		
Audio	30	T Touchpad	8		
Menu	30	U USB device	6		
On-screen	30				
Soundtrack	25				
Subtitle	25, 30				

USA Only: Disposal may be regulated in your community due to environmental considerations. For disposal or recycling information, please visit Panasonic website:
<http://www.panasonic.com/environmental/>
or call 1-888-769-0149.

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.



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

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

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