Panasonic®

Operating Instructions Blu-ray Disc Player Model No. DMP-BDT300 DMP-BDT350





Dear customer

Thank you for purchasing this product.

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

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























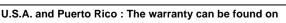












page 46.

Canada :The warranty can be found on page 47.

Ú.S.A. and Puerto Rico : 1-800-211-PANA(7262) Canada : 1-800-561-5505

If you have any questions contact

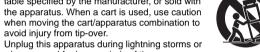
La referencia rápida en español se puede encontrar en la página 48.



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.

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- 5 Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- when unused for long periods of time.
- 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.

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE

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

CAUTION!

DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE. **BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE.** ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.

CAUTION!

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.



CAUTION RISK OF ELECTRIC SHOCK

DO NOT OPEN



CALITION

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



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



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

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

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

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

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.

Responsible Party: Panasonic Corporation of North America One Panasonic Way Secaucus, NJ 07094

Support Contact:

Panasonic Consumer Electronics Company Telephone No.: 1-800-211-PANA (7262)

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About descriptions in these operating instructions

- Instructions for operations are generally described using the remote control.
- These operating instructions are applicable to models DMP-BDT300 and DMP-BDT350. BDT300 | BDT350 |: indicates features applicable to DMP-BDT300 and DMP-BDT350, respectively.

About Firmware updates (⇒ 17)

Accessory

Check the supplied accessories before using this unit.

- 1 Remote control (N2QAYB000508)
- 1 Audio/Video cable (K2KA6BA00004)
- 2 Batteries for remote control
- 1 AC power supply cord (K2CB2CB00022)
- Wireless LAN Adaptor (DY-WL10*) (C5ZZZ0000048)
- 1 USB extension cable (DY-WL10*) (K2KYYYY00064)
- * DY-WL10 includes Wireless LAN Adaptor and USB extension cable, and it is sold in the market.

(ONLY FOR CANADA)

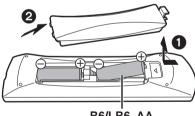
The enclosed Canadian French label sheet corresponds to the English display on the front and back side of the unit.



- Product numbers correct as of January 2010. These may be subject to change.
- Do not use AC power supply cord and Wireless LAN Adaptor with other equipment. Wireless LAN Adaptor is not designed to use with PC.
- MAC address is stated on the bottom of Wireless LAN Adaptor.
- Only for U.S.A. and Puerto Rico: To order accessories, refer to "Accessory Purchases (United States and Puerto Rico)" on page 46.
 For other areas: To order accessories, call the dealer from whom you have made your purchase.

Using the remote control

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



R6/LR6, AA

(Alkaline or manganese batteries)

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

• Do not mix old and new batteries or different types at the same time.

Point it at remote control signal sensor on this unit. (⇒ 5)

- Do not heat or expose to flame.
- Do not leave the battery(ies) in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.
- Do not take apart or short circuit.
- Do not attempt to recharge alkaline or manganese batteries.
- Do not use batteries if the covering has been peeled off.

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

CAUTION

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

Unit and media care

■ Clean this unit with a soft, dry cloth

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

Clean the lens with the lens cleaner disc

Lens cleaner disc: RP-CL720PP (not included)

 This lens cleaner is sold as specific for DIGA, but can be used on this unit as well.

Clean discs



Wipe with a damp cloth and then wipe dry.

■ Disc and card handling precautions

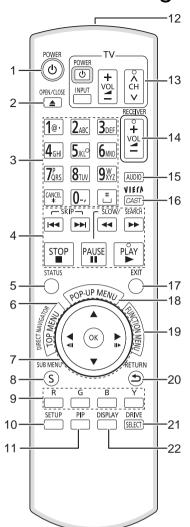
- Handle discs by the edges to avoid inadvertent scratches or fingerprints on the disc.
- Do not attach labels or stickers to discs.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Clean any dust, water, or foreign matter from the terminals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

■ To dispose or transfer this unit

The unit may keep the user settings information in the unit. If you discard this unit either by disposal or transfer, then follow the procedure to return all the settings to the factory presets to delete the user settings. (⇒34, "To return all settings to the factory preset.")

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

Control reference guide



- 1 Turn the unit on and off (⇒ 14)
- 2 Open or close the disc tray (⇒ 18)

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.

Select title numbers, etc./Enter numbers or characters
 (⇒ 25)

[CANCEL]: Cancel

- 4 Basic playback control buttons (⇒ 19)
- 5 Show status messages (⇒ 19)
- 6 Show Top menu/Direct Navigator (⇒ 19)
- 7 Selection/OK, Frame-by-frame (⇒ 19)
- 8 Show sub menu (⇒ 20)
 - These buttons are used when;
 - Operating a BD-Video disc that includes Java[™] applications (BD-J).
 - Displaying "Title View" and "Album View" screens.
 (⇒ 24)
 - Operating contents of VIERA CAST. (⇒ 25)
- 10 Show Setup menu (⇒ 30)
- 11 Switch on/off Secondary Video (Picture-in-picture) (⇒ 21)
- 12 Transmit the remote control signal
- 13 TV operation buttons (⇒ 17)

You can operate the TV through the unit's remote control.

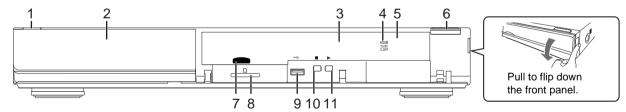
[也 TV POWER]: Turn the television on and off

[INPUT]: Input select

[+ - VOL]: Adjust the volume

[A V CH]: Channel select

- 14 Adjust the volume of an amplifier/receiver.
- 15 Select audio (⇒ 19)
- 16 Displays the Home screen of the VIERA CAST (⇒ 25)
- 17 Exit the menu screen
- 18 Show Pop-up menu (⇒ 19)
- 19 Show Functions menu (⇒ 18)
- 20 Return to previous screen
- 21 Select drive (BD/DVD/CD, SD card or USB device) (⇒ 18)
- 22 Show Playback menu (⇒ 28)



1 **POWER button (**POWER ₺/١**)** (\$\Display 14)

Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

- 2 Disc tray (⇒ 18)
- 3 Display

0	SD	USB
Disc indicator	SD card indicator	USB device indicator

The indicator blinks when reading data from a disc, a card or a USB device, or writing data to a card.

- 4 V.OFF LED (Video off LED)
 - It is possible to set the LED to turn on/off. (⇒ 31)

- 5 Remote control signal sensor Distance: Within approx. 7 m (23 feet) Angle: Approx. 20° up and down, 30° left and right
- Open or close the disc tray (⇒ 18)
- 7 SD Card LED
 - It is possible to set the LED to turn on/off. (⇒ 31)
- 8 SD card slot (⇒ 18)
- 9 USB port (⇒ 18)
- 10 Stop (⇒ 19)
- 11 Start play (⇒ 19)

Rear panel terminals (⇒ 8-14)

Playable discs/Cards/USB devices

Туре	Logo examples	Type detail	Playable contents		
		BD-Video	Video		
BD	B)uray Disc	BD-RE	Video JPEG		
		BD-R	Video DivX®		
	VIDEO	DVD-Video	Video		
	RAM RAM4.7	DVD-RAM	Video AVCHD JPEG		
DVD	R R4.7	DVD-R	Video AVCHD		
	R DL	DVD-R DL	DivX MP3 JPEG		
	R W	DVD-RW	Video AVCHD		
	_	+R/+RW/+R DL			
	COMPACT DIGITAL AUDIO	Music CD	Music [CD-DA]		
CD	_	CD-R CD-RW	DivX Music [CD-DA] MP3 JPEG		
SD	\$2°	SD Memory Card (8 MB to 2 GB) (Includes miniSD Card and microSD Card) SDHC Memory Card (4 GB to 32 GB) (Includes microSDHC Card) SDXC Memory Card (48 GB, 64 GB) (Includes microSDXC Card)	MPEG2 AVCHD JPEG		
USB	_	USB devices (up to 128 GB)	DivX MP3 JPEG		

■ Discs that cannot be played in this unit

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

- 2.6 GB and 5.2 GB DVD-RAM
- DVD-RAM that cannot be removed from cartridge
- Super Audio CD
- Photo CD
- DVD-Audio
- Video CD and Super Video CD
- WMA discs
- PAL discs
- HD DVD
- BD-Video discs recorded at a rate of 50 fields/sec

■ Region management information

BD-Video

This unit plays BD-Video marked with labels containing the region code **A**. Example:





DVD-Video

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







■ Finalize

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

■ BD-Video

- 3D videos can be played back when this unit is connected to a 3D compatible TV using an HDMI cable.
- 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. In order to enjoy these audio formats, refer to page 38.

■ Music CD

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



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

■ USB device

- This unit supports connecting a USB memory, digital camera and video camera produced by Panasonic, etc. It is not warranted that all USB devices will work with this unit.
- This unit does not support USB device charging.
- FAT12, FAT16 and FAT32 file systems are supported.
- This unit supports USB 2.0 High Speed.

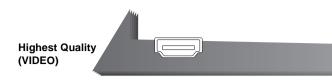


- It may not be possible to play the above media in some cases due to the type of media, the condition of the recording, the recording method and how the files were created.
- The producers of the disc can control how discs are played, so you may not always be able to control play as described in these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

STEP 1: Connecting to a TV

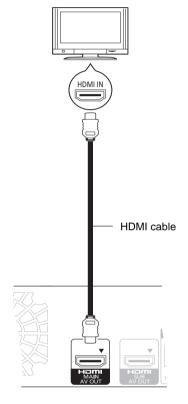
- Do not place the unit on amplifiers/receivers or equipment that may become hot. The heat can damage the unit.
- Before making any connections we suggest you temporarily disconnect all the units from AC power.
- Do not connect video signals through a video recorder. Due to copy guard protection the picture may not be displayed properly.
- Refer to page 39, about recommended settings for each piece of connected equipment.
- Please use High Speed HDMI Cables that have the HDMI logo (as shown on the cover). It is recommended that you use Panasonic's HDMI cable. When outputting 1080p signal, please use HDMI cables 5.0 meters (16.4 ft) or less. Recommended part number:

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.



■ Via an HDMI MAIN AV OUT terminal

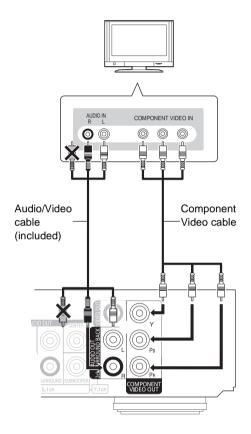
 It is possible to playback 3D videos by connecting this unit with a 3D compatible TV.



- Set "HDMI Video Mode" and "HDMI Audio Output" to "On"
 (⇒ 32)
- The HDMI connection using HDMI MAIN AV OUT supports VIERA Link "HDAVI Control" (⇒ 27).



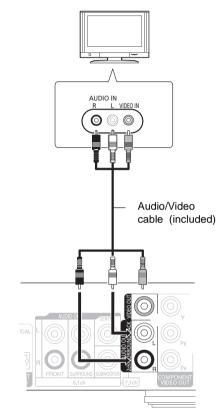
■ Via a COMPONENT VIDEO OUT terminal



- Connect terminals of the same color.
- Set "Component Video Resolution" to "480p", "720p" or "1080i" (

 32).
- Set "HDMI Video Mode" to "Off" (⇒ 32).

■ Via a VIDEO OUT terminal



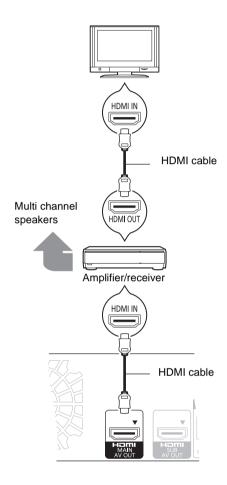
• Connect terminals of the same color.

STEP 2 : Connecting to an amplifier/receiver

Digital Audio

■ Via an HDMI MAIN AV OUT terminal

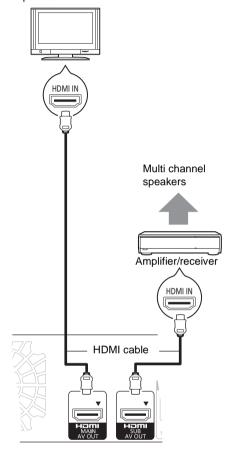
 It is possible to playback 3D videos when the connected TV and amplifier/receiver are 3D compatible.



- Set "HDMI Video Mode" and "HDMI Audio Output" to "On" (⇒ 32).
- Set "Digital Audio Output" depending on the connected amplifier/receiver (⇒ 31).
- The HDMI connection using HDMI MAIN AV OUT supports VIERA Link "HDAVI Control" (⇒ 27).

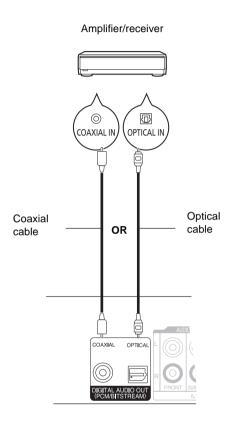
Via an HDMI MAIN AV OUT and HDMI SUB AV OUT terminal

 It is possible to playback 3D videos when the connected TV is 3D compatible, even if the amplifier/receiver is not 3D compatible.



- Set "HDMI Video Mode" and "HDMI Audio Output" to "On" (⇒ 32).
- Set "HDMI(SUB) Output Mode" to "V.OFF". (⇒ 23)
 Audio is output in high resolution regardless of compatibility of the amplifier/receiver with 3D.
- The HDMI connection using HDMI MAIN AV OUT supports VIERA Link "HDAVI Control" (⇒ 27).
 - The HDMI SUB AV OUT terminal is not compatible with the VIERA Link "HDAVI Control".

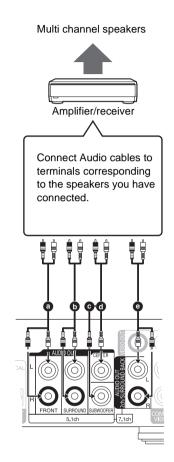
■ Via a COAXIAL or OPTICAL terminal



- When connecting a TV (⇒ 8) with HDMI AV OUT terminal, set "HDMI Audio Output" to "Off" (⇒ 32).
- Set "Digital Audio Output" depending on the used terminal and connected amplifier/receiver (⇒ 31).

Analog Audio

■ Via a 5.1/7.1ch AUDIO OUT terminal



Cable connections

- a Front speaker (L/R)
- Surround speaker (L/R)
- Subwoofer
- Center speaker
- 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 (⇒ 32).
- 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" (⇒ 32).

STEP 3: Connecting to a broadband network

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

- Firmware can be updated (⇒ 17)
- You can enjoy BD-Live (⇒ 21)
- You can enjoy VIERA CAST (⇒ 25)

Using LAN (ethernet) cable

• BDT350 : DLNA feature (⇒ 26)

Broadband router, etc.

LAN Cable

Botaston

LAN Cable

Botaston

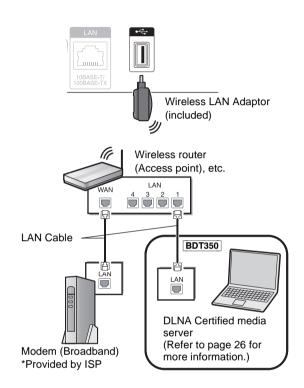
DLNA Certified media server (Refer to page 26 for more information.)

- Use shielded LAN cables when connecting to peripheral devices.
- Inserting any cable other than a LAN cable in the LAN terminal can damage the unit.

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

 The unit is not compatible with public wireless LAN services provided in airports, stations, cafes etc.

■ Using Wireless LAN Adaptor (DY-WL10)



- Wireless LAN Adaptors other than the included Wireless LAN Adaptor cannot be used.
- When connection conditions are poor, use the included USB extension cable to connect the Wireless LAN Adaptor provided with this unit.
- Do not use any other USB extension cables except the supplied one.
- For up to date compatibility information on your Wireless router (Access Point) refer to http://panasonic.jp/support/global/cs/
 For additional information about this unit refer to http://www.panasonic.com/consumer/support

Precautions of Wireless LAN Adaptor

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

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 device.

 Do not use this device 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.

- * 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.
- Data transmitted and received over radio waves may be intercepted and monitored.
- This wireless LAN adaptor contains delicate electronic components.
 Please use this adaptor in the manner in which it was intended and follow the following points:
 - Do not expose the adaptor to high temperatures or direct sunlight.
 - Do not bend, or subject the adaptor to strong impacts.
 - Keep the adaptor away from moisture.
 - Do not disassemble or alter the adaptor in any way.
 - Do not attempt to install the adaptor in any incompatible device.

Wireless LAN Adaptor is prohibited from export or bringing into nations* upon which the United States place embargoes.

Wireless LAN Adaptor is subject to Export Administration Regulations (EAR) due to the installation of encryption device made in the United States. (Current as of November 2009)

* Cuba, Iran, Syria, North Korea, Sudan etc.

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.

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

This product is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range.

FCC and IC require this product to be used indoors for the frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems. High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage this product.

The available scientific evidence does not show that any health problems are associated with using low power wireless devices.

There is no proof, however, that these low power wireless devices are absolutely safe.

Low power Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used.

Whereas high levels of RF can produce health effects (by heating tissue), exposure to low-level RF that does not produce heating effects causes no known adverse health effects.

Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. Wireless LAN adaptor (DY-WL10) has been tested and found to comply with FCC/IC radiation exposure limits set forth for an uncontrolled equipment 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.

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 maintain compliance with FCC regulations, shielded interface cables must be used with this equipment. Operation with non-approved equipment or unshielded cables may result in interference to radio and TV reception. Any changes or modifications not 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.

Responsible Party:

Panasonic Corporation of North America

One Panasonic Way

Secaucus, NJ 07094

Support Contact:

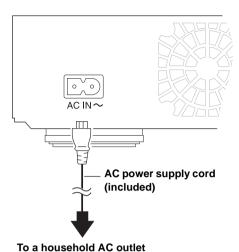
Panasonic Consumer Electronics Company Telephone No.: 1-800-211-PANA (7262)

THE FOLLOWING APPLIES ONLY IN CANADA.

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

Product Identification Marking is located on the bottom of unit

STEP 4 : Connecting to an AC power



 This unit consumes a small amount of AC power ("Quick Start": "Off", approx. 0.1 W) 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.

The unit should be installed near an accessible AC power outlet, with the power cord connected directly to it. To completely disconnect power from the unit, unplug the power cord from the AC power outlet.

STEP 5: Setting

Easy Setting

After connecting your new player for the 1st time and pressing the power button, a screen for the basic settings will appear.

Preparation

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

1 Press [也 POWER].

Setup screen appears.

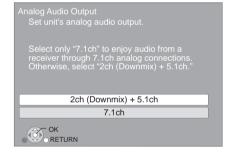
If this unit is connected to a Panasonic TV (VIERA) supporting HDAVI Control 2 or later via an HDMI cable, then the setting information on the TV is acquired by this TV.

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

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



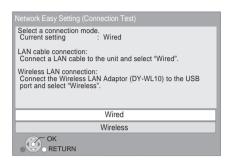
- You can perform this setup anytime by selecting "Easy Setting" in the Setup menu. (⇒ 33)
- Initial setting is set to "2ch (Downmix) + 5.1ch", so you will need to select "7.1ch" if using the 7.1ch output.



Network Easy Setting

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

1 Select "Wired" or "Wireless" and press [OK].



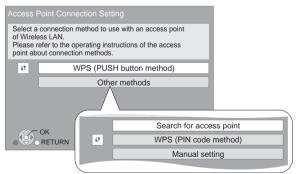
If "Wireless LAN Adaptor is not connected." is displayed, check that the Wireless LAN Adaptor is fully inserted. Alternatively, disconnect and reconnect it. If there is still no change in the display, consult your dealer.

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

For wireless LAN connection:

If you are using a Wireless router (Access point) that supports WPS, you can easily perform the settings by selecting "WPS (PUSH button method)".

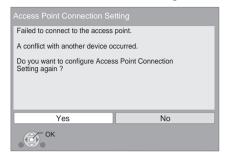
Otherwise, perform the settings by selecting "Search for access point" or "Manual setting" in "Other methods".



 WPS (Wi-Fi Protected Setup) is a function that facilitates settings relating to the connection and security of wireless LAN devices. To see whether your Wireless router (Access point) supports WPS, check the Wireless router operating instructions.

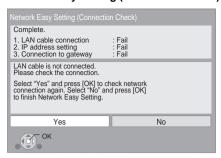
When you experience problems with settings

Access Point Connection Setting



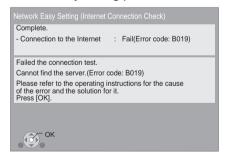
Display	Check the following
A conflict with another device occurred.	Please wait a few moments, and then try again.
A time out error occurred.	Setting of the Wireless router (Access point) for MAC Address etc. The signal may be weak. Using the included USB extension cable, adjust the position of the
An authentication error or a time out error occurred.	Wireless LAN Adaptor. Do not use any other USB extension cables except the supplied one. The SSID and the encryption key of the Wireless router (Access point). Please wait a few moments, and then try again.
A device error occurred.	Connection of Wireless LAN Adaptor If there is no improvement in symptom, contact our Customer Service Center.

Network Easy Setting (Connection Check)



Display		Check the following
1. LAN cable connection or Connection to access point	: Fail	Connection of the LAN
2. IP address setting	: Fail	cables (⇒ 12)
3. Connection to gateway	: Fail	
LAN cable connection or Connection to access point	: Pass	Connection and settings
2. IP address setting	: Fail	of the hub and router
3. Connection to gateway	: Fail	Settings of "IP
BDT350 1. LAN cable connection or Connection to access point	:Pass	Address/DNS Settings" (⇒ 33)
2. IP address setting	:Home network available	
3. Connection to gateway	:Fail	
LAN cable connection or Connection to access point	: Pass	
2. IP address setting	: Pass	
3. Connection to gateway	: Fail	

Network Easy Setting (Internet Connection Check)



Display	Check the following
Cannot find the server. (Error code: B019)	"Primary DNS" and "Secondary DNS" settings of "IP Address/ DNS Settings" (⇒ 33)
Failed to connect to the server. (Error code: B020)	 The server may be busy or the service may have been suspended. Please wait a few moments, and then try again. Settings of "Proxy Server Settings" (⇒ 33) and the router



- Refer to the operating instructions of the hub or router.
- You can perform this setup anytime by selecting "Network Easy Setting" in the Setup menu. (⇒ 33)
- You can redo these settings individually using "Network Settings". (⇒ 33)
 After performing network settings on this unit, the settings (encryption level, etc.) of the Wireless router (Access point) might change. When you have trouble getting online on your PC, perform the network settings on your PC in accordance with the settings of Wireless router (Access point).

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 screen is displayed.



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.



- You can perform updates anytime by selecting "Firmware Update" in the Setup menu. (⇒ 33)
- 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, "System Information")

- Downloading will require several minutes. It may take longer or the Internet may not be connected depending on the connection environment.
- If you do not want to check for the latest firmware version, set "Automatic Update Check" to "Off". (⇒ 33)

STEP 6: Reprogramming the

remote control

For other Panasonic products

Change "Remote Control Code" (⇒ 33) on the main unit and the remote control (the two must match) if you place other Panasonic products close together and it responds to this remote control.

For TV or amplifier/receiver

You can operate the TV or amplifier/receiver using the unit's remote control.

1 For televisions
Input the code (⇒ 42) with the number buttons while pressing [⊕ TV POWER].

For amplifiers/receivers Input the code (⇒ 42) with the number buttons while pressing [RECEIVER – VOL].

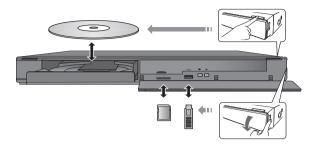
e.g., 0001: [0] ⇒ [0] ⇒ [0] ⇒ [1]

2 Test by turning on the television or adjusting the volume of the amplifier/receiver.



• If your television or amplifier/receiver brand has more than one code listed, select the one that allows correct operation.

Inserting or removing media



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

To switch drives

Press [DRIVE SELECT] to select "BD/DVD/CD", "SD card" or "USB device".

 If media is inserted while the unit is stopped, the drive switches automatically depending on the inserted media.

FUNCTIONS menu

Major functions of this unit can be operated from the FUNCTIONS menu.

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



		I					
Playback		Play back the contents.					
Top Menu		(⇒ 19)					
Menu		(⇒ 19)					
Viewing Pic	ture	(⇒ 24)					
Viewing Vic	leo	(⇒ 19)					
Listening M	lusic	(⇒ 25)					
BDT300 Network		Displays the Home screen of the VIERA CAST (⇒ 25)					
BDT350 Network	Home Network (DLNA)	(⇒ 26)					
	Internet Content	Displays the Home screen of the VIERA CAST (⇒ 25)					
BD/DVD/CD							
SD Card		Switches to each drive.					
USB device							
Other	Playlists	You can play playlists created on DVD-VR.					
Other Functions	Setup	(⇒ 30)					
	Card Management	(⇒ 21)					

To exit the screen

Press [FUNCTION MENU].

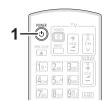
- Items to be displayed may vary with the media.
- If FUNCTIONS screen is not displayed, press [FUNCTION MENU].

Playing video contents

BD DVD CD SD USB

Preparation

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



1 Press [POWER] to turn on the unit.

2 Insert the media.

Play starts.

- If the menu is displayed, press [▲, ▼, ◄, ▶] to select the item and press [OK].
- When a message screen is displayed while playing back 3D compatible video software, play back in accordance with the instructions.
- If play does not start, press [▶] (PLAY).

■ To show menus

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

- Press [▲, ▼, ◄, ▶] to select the item and press [OK].
- Pop-up menu also appears by pressing [SUB MENU] and selecting "Pop-up Menu".

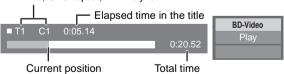
■ To show the status messages

While playing, press [STATUS].

The status messages give you information about what is currently being played. Each time you press [STATUS], the information displayed will change.

e.g.BD-Video

T: Title, C: Chapter, PL: Playlist



- Depending on media and contents, the display may change or may not appear.
- DivX: Successive play is not possible.
- It is not possible to playback AVCHD and MPEG2 video which have been dragged and dropped, copied and pasted to the media.

Other operations during play

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

Stop

Press [■].

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 [■] several times to display "STOP" on the unit's display.
- On BD-Video discs including BD-J (⇒ 45), the resume play function does not work.

Pause

Press [11].

Press [■■] again or [▶] (PLAY) to restart play.

Search/Slow-motion

Search

While playing, press [◀◀] or [▶▶].

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

Slow-motion

While paused, press [◀◀] or [▶▶].

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

The speed increases up to 5 steps.

Press [▶] (PLAY) to revert to normal playback speed.

Skip

While playing or paused, press [◄◄] or [►►].

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

• Each press increases the number of skips.

Frame-by-frame

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

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

Changing audio

Press [AUDIO].

You can change the audio channel number or soundtrack language (⇒ 28), etc.

Useful functions

1 Press [SUB MENU].

2 Select an item, then press [OK].

While Direct Navigator screen is displayed

Properties	To display the titles properties (recording date, etc.).
View Chapters	To select the chapter.
To picture	Playing still pictures (⇒ 24).
Select Folder	To switch to another folder.

While playing

Screen Aspect	When black bars are shown at the top, bottom, left, and right sides of the screen, you can enlarge the image to fill the screen.
Top Menu	To display Top Menu.
Pop-up Menu	To display Pop-up Menu.
Menu	To display Menu.

- Depending on the played contents if you perform "Screen Aspect", there may be no effect.
- When "TV Aspect" (⇒ 32) is set to "4:3 Pan & Scan" or "4:3 Letterbox", the "Zoom" effect in "Screen Aspect" is disabled.

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

Enjoying BD-Live or BONUSVIEW in BD-Video

What is BONUSVIEW?

BONUSVIEW allows you to enjoy functions such as picture-in-picture or secondary audio etc.

What is BD-Live?

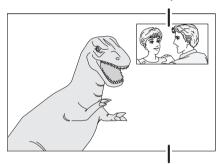
In addition to the BONUSVIEW function, BD-Live allows you to enjoy more functions such as subtitles, exclusive images and online games by connecting this unit to the Internet.

 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.

Playing picture-in-picture

To turn on/off secondary video Press [PIP].





Primary video

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



- During search/slow-motion or frame-by-frame, only the primary video is displayed.
- When "BD-Video Secondary Audio" in "Digital Audio Output" is set to "Off", secondary audio will not be played (⇒ 31).

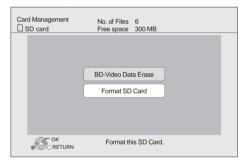
Enjoying BD-Live discs with Internet

Some BD-Live content available on the Blu-ray discs may require an Internet account to be created in order to access the BD-Live content. Follow the screen display or instruction manual of the disc for information on acquiring an account.

- 1 Connect to the network. (⇒ 12)
- 2 Insert an SD card (with 1 GB or more free space).
 SD card is used as the local storage (⇒ 45).
- 3 Insert the disc.

■ Deleting data/Formatting SD cards

- (1) Insert an SD card.
- ② Press [FUNCTION MENU].
- ③ Press [▲, ▼] to select "Other Functions" and press [OK].
- ④ Press [▲, ▼] to select "Card Management" and press [OK].
- ⑤ Press [▲, ▼] to select "BD-Video Data Erase" or "Format SD Card" and press [OK].



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

- To use the above functions, it is recommended that you format the card on this unit. If the SD card you use is formatted, all data on the card will be erased. It cannot be recovered.
- "BD-Live Internet Access" may need to be changed for certain discs (⇒ 30).
- When discs supporting BD-Live are played back, the player or disc IDs may be sent to the content provider via the Internet.

Regarding DivX

ABOUT DIVX VIDEO:

 DivX^{\otimes} is a digital video format created by DivX , Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.

ABOUT DIVX VIDEO-ON-DEMAND:

This DivX Certified® device must be registered in order to play DivX Video-on-Demand (VOD) content.

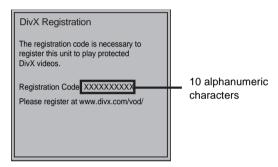
To generate the registration code, locate the DivX VOD section in the device setup menu.

Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD.

 It is not possible to playback DivX VOD content recorded on the USB device.

Display the unit's registration code.

(⇒ 33, "DivX Registration" in "Others")



- After playing DivX VOD content for the first time, the registration code is not displayed.
- If you purchase DivX VOD content using a registration code different from this unit's code, you will not be able to play this content. ("Authorization Error" is displayed.)

Cancel the unit's registration.

(⇒ 33, "DivX Registration" in "Others")

Press [◄, ▶] to select "Yes" in "DivX Registration".

Use the deregistration code to cancel the registration in www.divx.com.

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

Some DivX VOD contents can only be played a set number of times. When you play this content, the number of times already played and initially playable number of times is displayed.

 The remaining number of plays decreases each time a program is played. However, when playing from the point where play was previously stopped, the remaining number of plays does not decrease due to the resume play function.

■ Displaying subtitle text

You can display subtitle text on the DivX video disc with this unit. This function has no relation to the subtitles specified in DivX standard specifications and has no clear standard. The operation might be different or it may not operate properly depending on the way the file was made or the state of this unit (playing, stopped, etc.).

Set "Subtitle" in "Disc" (⇒ 28)



- DivX video files that do not display "Text" do not contain subtitle text.
- If the subtitle text is not displayed correctly, try changing the language settings. (⇒ 30)

Enjoying 3D video

BD

You can enjoy powerful videos with realistic sensations of the 3D compatible video software by connecting this unit with an HDMI cable to a 3D compatible TV.



Preparation

Connect 3D compatible TV to an HDMI MAIN AV OUT terminal of this unit using an HDMI cable. (⇒ 8, 10)

• Perform the necessary preparations for the TV.

Method of playback is the same as normal disc playback. (⇒ 19)



3D settings

Perform the following settings as necessary.

Playback Method for 3D Disc	You can play back 3D videos as 2D (normal) videos. (⇒ 30)	
3D Type	If you cannot playback in 3D, change the settings as required by the connected TV format. (⇒ 32) • Change the settings for 3D on the TV also when "Checker board" and "Side by side" are selected.	
HDMI(SUB) Output Mode	If the amplifier/receiver is connected to the HDMI SUB AV OUT terminal (⇒ 10), set to "V.OFF". (⇒ 32) • HDMI (SUB) V.OFF LED on this unit will light. (⇒ 31)	
3D Playback Precautions	Hide the 3D viewing warning screen. (⇒ 30)	
Pop-Out Level	Adjust the pop-up position for the Playback menu or message screen etc. (⇒ 29)	



- Please refrain from viewing 3D images if you do not feel well or are to view 3D images safely and comfortably.
- 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". (⇒ 32)

Playing still pictures

BD DVD CD SD USB

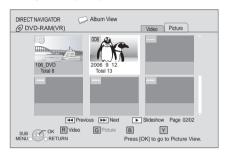
(BD-RE, DVD-RAM/-R/-R DL, CD-R/RW, SD Card, USB device)

1 Insert a disc, SD card or USB device.

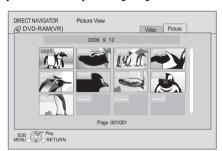
If the menu is displayed, press [\blacktriangle , \blacktriangledown] to select the item and press [OK].

2 BD-RE, DVD-RAM

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



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



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

To exit the screen

Press [TOP MENU/DIRECT NAVIGATOR].

■ To show the picture properties

While playing, press [STATUS] twice.

e.g. JPEG on DVD-RAM
Shooting date

Photo 11/12/2007 Total 3/9

To exit the screen

Press [STATUS].

Useful functions

- 1 Press [SUB MENU].
- 2 Select an item, then press [OK].

While "Album View" or "Picture View" screen is displayed

Start	You can display still pictures one by one at a	
Slideshow	constant interval.	
Slideshow Settings	Display Interval Change the display interval. Transition Effect Set display method. Repeat Play Repeat slideshow. Soundtrack The MP3 that is recorded on the USB device or the music CD can be played back as Background Music during the slideshow. Soundtrack Folder A folder to play back can be selected when a USB device with recorded MP3 is connected to this unit. Press [▲, ▼, ◄, ▶] to select "Set" and press [OK].	
Select Root folder	To switch to another higher folder. • Only if there is a multiple number of higher folders recognizable.	
Select Folder	To select the still pictures in another folder.	
To Video	Playing video contents (⇒ 19).	
To album view	To display album view.	

While playing (except for slideshow)

,		
Rotate Right	Rotate the still picture.	
Rotate Left	. Notate the still picture.	
Zoom out	Reduce the still picture. This function is only available for small-sized still pictures.	
Zoom in	Cancel "Zoom out".	



- Depending on the media and contents, displayed items are different.
- When a still picture with large number of pixels is played, the display interval may become longer. Even if the setting is changed, the display interval may not become shorter.
- When both the music CD and the USB device with recorded MP3 is inserted into this unit, the music CD has priority to be played back as Background Music.

Playing music

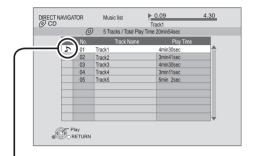
DVD CD USB

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

1 Insert a disc or USB device.

If the menu is displayed, press [\blacktriangle , \blacktriangledown] to select the item and press [OK].

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



- " 🦒 " indicates the track currently playing.
- Playing a track in another folder
- 1 While the "Music list" is displayed Press [SUB MENU].
- 2 Press [▲, ▼] to select "Select Folder" and press [OK].

• You cannot select folders that contain no compatible tracks.

Enjoying VIERA CAST™

You can access a selection of Internet services from the Home screen with VIERA CAST, for example YouTube, Picasa Web Albums. (Current as of December 2009)

Preparation

- Network connection (⇒ 12)
- Network setting (⇒ 15)

1 Press [VIERA CAST].

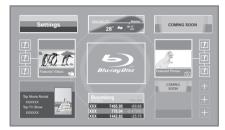
Message is displayed. Please read these instructions carefully and then press [OK].

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

Operable buttons:

 $[\mathring{\blacktriangle}, \blacktriangledown, \blacktriangleleft, \blacktriangleright]$, [OK], [RETURN], colored buttons, number buttons

VIERA CAST Home screen;



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

To return to VIERA CAST Home screen

Press [VIERA CAST].

To exit from VIERA CAST

Press [EXIT], [FUNCTION MENU] or [TOP MENU/DIRECT NAVIGATOR].

- In the following cases, settings are possible using "Internet Content Settings" (⇒ 33)
 - When restricting the use of VIERA CAST.
- When the audio is distorted.
- When wrong time is displayed
- If using slow Internet connection, the video may not be displayed correctly. A high-speed Internet service with a speed of at least 6 Mbps is recommended.
- Be sure to update the firmware when a firmware update notice is displayed on the screen. If the firmware is not updated, you will not be able to use the VIERA CAST™ function. (➡ 17)
- VIERA CAST™ home screen is subject to change without notice.
- The services through VIERA CASTTM 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.

DLNA feature BDT350

You can enjoy viewing video and pictures saved on a DLNA Certified media server (such as a PC with Windows 7 installed etc.) connected to the home network with this unit.

• For the operation of equipment connected to the network, refer to their respective operating instructions.

Preparation

- Perform network connection (⇒ 12) and network setting
 (⇒ 15).
- ② Connect a DLNA Certified media server to the network.

Viewing of video and pictures on the equipment connected to this unit via the network

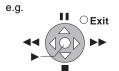
- 1 Press [FUNCTION MENU].
- 2 Press [▲, ▼] to select "Network" and press [OK].
- 3 Press [▲, ▼] to select "Home Network (DLNA)" and press [OK].
 - A list of equipment connected via the network is displayed.
 - This list can be updated by pressing [R] on the remote control.

e.g.



- 4 Press [▲, ▼] to select the equipment to playback the contents, and press [OK].
- 5 Press [▲, ▼, ◄, ▶] to select the item to playback (folder), and press [OK].
 - Menu structure will be different depending on the equipment connected to this unit. Select the contents by repeating the operation.
 - Control Panel is displayed once the playback starts.
 Operation can be performed with [▲, ▼, ◄, ►], [OK] and [EXIT].

Control Panel



- Press [OK] if the Control Panel is not displayed.
- Press [RETURN] to hide the Control Panel.

- Discs or music cannot be played back. Also, depending on the equipment, playback of pictures may not be possible.
- Items displayed in gray on the display cannot be played back by this unit.
- This unit cannot be played back via connected equipment.
- Depending on the performance of the connected PC, video frames may be dropped during playback, or video may not playback at all.

Useful functions for when playing back pictures

The following operations are possible when playing back pictures from connected equipment.

While contents list is displayed

- Press [SUB MENU].
- Select an item, then press [OK].

Start Slideshow	You can display still pictures one by one at a constant interval.
Slideshow Settings	Display Interval Change the display interval. Repeat Play Repeat slideshow.
	Press [▲, ▼, ◀, ▶] to select "Set" and press [OK].

While playing

- 1) Press [SUB MENU].
- Select an item, then press [OK].

Status	Show the picture properties (⇒ 24).
Rotate Right (except for slideshow)	- Rotate the still picture.
Rotate Left (except for slideshow)	

Linked operations with the TV (VIERA Link™ "HDAVI Control™")

What is VIERA Link "HDAVI Control"?

VIERA Link™ is a new name for EZ Sync™.
VIERA Link "HDAVI Control" is a convenient function
that offers linked operations of this unit, and a
Panasonic TV (VIERA) 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 MAIN AV OUT terminal on this unit.

Preparation

- ① Set "VIERA Link" to "On" (⇒ 32). (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 television will automatically switch the input channel and display the corresponding action. 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., Direct Navigator screen)

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.

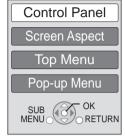
- While playing music Press [SUB MENU].
- ② Press [▲, ▼] to select "TV Power" and press [OK].

Easy control only with VIERA remote control

Only TV supports "HDAVI Control 2" or later

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

- 1 Press [SUB MENU].
- 2 Select an item, then press [OK].



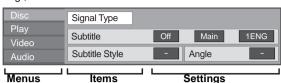
 The sub menu may not appear while the Top Menu for BD-Video or DVD-Video is displayed.

- The buttons that you can use for this unit vary depending on the TV. For details, refer to the operating instructions of the TV.
- The operation of this unit may be interrupted when you press incompatible buttons on the TV remote control.
- This unit supports "HDAVI Control 5" function.
 "HDAVI Control 5" is the newest standard (current as of December, 2009) 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.

Playback menu

1 Press [DISPLAY].

e.g., BD-Video



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

Some items can be changed by pressing [OK].

To exit the screen

Press [DISPLAY].

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

Regarding Language, Audio attribute and video attribute : $(\Rightarrow 42)$

Disc

Signal Type

Primary Video

Video	The recording method of original video appears.
Soundtrack Select the type of audio or language.	

Secondary Video

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

Video

The recording method of original video appears.

Soundtrack

Show or change the soundtrack.

Subtitle

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

Subtitle Style

Select the subtitle style.

Audio channel

Select the audio channel number. (⇒19, "Changing audio")

Angle

Select the number of the angle.

Some items may be changed only on the disc specific menu. $(\Rightarrow$ 19)



Repeat Play

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

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

Select "Off" to cancel.

Random

Select whether or not to play random.

Playback Information Window

Displays the following.

0	Audio/video attribute information of disc.
S	Settings status of "Digital Audio Output" (⇒ 31).
HDMI	HDMI output information. (First: HDMI(MAIN), Second: HDMI(SUB))

Press [RETURN] to exit.

Pop-Out Level

(Only when "Full HD" is selected in "3D Type" (⇒ 32).) Pop-up position for the Playback menu or message screen etc. can be adjusted.



Picture

Select the picture quality mode during play.

If you select "User", you can make further adjustments.
 Press [▶] to select "Picture Adjustment" and press [OK].

- 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. (⇒ 32) • Integrated NR:
 - Smoothes block noise and reduces the smudging that appears around contrasting sections of the picture.

Advanced Settings

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 or COMPONENT VIDEO 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" (⇒ 32).

Audio

Sound Effects*1, *2

Select the sound effect.

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

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

Recommended setting

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

• 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.

Dialog Enhancer*2

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.

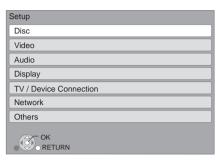
- Only when you have selected "Enable" in "High Clarity Sound" (⇒ 31).
- ^{*1} Not every function can be set individually.
- This function is effective for audio from the HDMI terminal or the COAXIAL /OPTICAL terminal only when "Digital Audio Output" is set to "PCM" (\$\to\$ 31). (However, in this case, audio is output as 2ch from the COAXIAL /OPTICAL terminal.)

Setup menu

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

1 While stopped

Press [SETUP].



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

If there are any other items, repeat these steps.

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

To exit the screen

Press [SETUP].

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

About the password

The password of the following items are common.

Don't forget your password.

- "DVD-Video Ratings"
- "BD-Video Ratings"
- "Lock" (\$\Rightarrow\$33)

Disc

DVD-Video Ratings

Set a ratings level to limit DVD-Video play.

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

BD-Video Ratings

Set an age limit of BD-Video play.

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

Playback Method for 3D Disc

Select the playback method of 3D compatible video software.

3D Playback Precautions

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

Audio Language

Choose the language for audio.

- If "Original" is selected, the original language of each disc will be selected.
- Enter a code (⇒ 42) with the number buttons when you select "Other ****.

Subtitle Language

Choose the language for the subtitle.

- If "Automatic" is selected and the language selected for "Audio Language" is not available, subtitles of that language will automatically appear if available on that disc.
- Enter a code (⇒ 42) with the number buttons when you select "Other ****.

Menu Language

Choose the language for the disc menus.

 Enter a code (⇒ 42) with the number buttons when you select "Other ****."

BD-Live Internet Access (⇒ 21)

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

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

DivX Subtitle Text

Select a suitable item according to the language used for DivX subtitles text (⇒ 22).

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

Video

Still Mode (paused video)

Select the type of picture shown when you pause playback.

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

Seamless Play

The chapter segments in playlists are played seamlessly.

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

Black Level Control

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

Audio

Dynamic Range Compression

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

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

Digital Audio Output (⇒ 38)

Press [OK] to show the following settings:

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

Select the audio signal to output.

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

BD-Video Secondary Audio

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

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

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 Reformatting

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 reformatting 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.

High Clarity Sound

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

 Set to "Enable" and then set "High Clarity Sound" on the Playback menu to "On". (⇒ 29)

Audio Delay

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

Display

Status Messages

Choose whether to show status messages automatically.

On-screen Language

Choose the language for menus and on-screen messages.

Screen Saver Function

This is to prevent burn-in on the screen.

- When this is set to "On":
- If there is no operation for 10 minutes or more, Direct Navigator screen switches to FUNCTIONS screen automatically.
- While playing and pausing, etc., this function is not available.
- As for Music [CD-DA] or MP3, regardless of the setting, if there is no operation for a while, Direct Navigator screen switches to the other states automatically.

FL Display

Changes the brightness of the unit's display.

 If "Auto" is selected the display is dimmed during playback and bright not during playback.

SD Card LED Control

Set the lighting method for the SD card LED.

 If "SD inserted" is selected, and this unit is turned on and SD card is inserted, the lamp is lighted.

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" (⇒ 32) is set to "V.OFF", and the power of the connected equipment to the HDMI SUB AV OUT is on.

License

Information about the software used by this unit is displayed.

TV / Device Connection

3D Type

Select the format of the connected TV.

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

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.	0

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.

HDMI Connection

Press [OK] to show the following settings:

HDMI Video Mode

Select "On" when video is output from HDMI AV OUT terminal.

On	Images are output from the HDMI terminal in the resolution set in "HDMI Resolution".
Off	Images are output in the resolution set in "Component Video Resolution".

HDMI(SUB) Output Mode

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

HDMI Resolution

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

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

24p Output

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

- When playing DVD-Video, set to "On" and then also set "24p" in "Video" (⇒ 29) to "On".
- When BD-Video images other than 24p are played, images are output at 60p.

HDMI Color Mode

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

HDMI Audio Output

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

 Select "Off" when the TV is connected to this unit via an HDMI terminal, and this unit is also connected to other devices, such as an amplifier/receiver via a COAXIAL or an OPTICAL terminal.

VIERA Link

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

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

Deep Color Output

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

Contents Type Flag

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

Component Video Resolution

This sets the video output resolution when connected via the COMPONENT VIDEO OUT terminal.

 Even if you select "720p" or "1080i", the video output resolution is restricted to "480p" when images of DVD-Video discs are output from the COMPONENT VIDEO OUT terminals.

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 press [OK], and then set the following options.

- Speaker presence and size (L c R OSW LS RS LB RB
- Delay time (ms)
- Channel balance (B)

To finish the speaker setting

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

Network

Network Easy Setting (⇒ 15)

Network Settings

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

LAN Connection Mode

Select connection method.

Access Point Connection Setting

This allows the Wireless router (Access point) and connection settings to be set and the current connection settings and connection state to be checked when a wireless connection is used.

Connection Setting

The Wireless router (Access point) connection wizard will be displayed.

Double Speed Mode Setting (2.4GHz) BDT350

When a 2.4 GHz wireless format is used, this setting 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 the connection to become unstable.

IP Address/DNS Settings

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

Press [OK] to show the respective setting.

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

Proxy Server Settings

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

Press [OK] to show the respective setting.

Internet Content Settings (⇒ 25) (VIERA CAST)

Press [OK] to show the following settings:

Lock

You can restrict the usage of VIERA CAST.

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

Audio Auto Gain Control

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

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

Time Zone

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

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

DST

Select "On" when using Daylight Saving time.

MAC Address

Displays the MAC address of this unit.

Others

Off Timer

Select how long the unit remains on when it is not being used.

Remote Control Code

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

Quick Start

Speed of startup from power off is increased.

- Internal control unit will be powered when it is set to "On", so contents of the following will be different from the time it is set to "Off".
 - Idle power consumption will increase. (about the power consumption ⇒ 43)
 - The cooling fan may turn slowly to prevent overheating of internal parts.

Easy Setting

You can execute basic settings ("On-screen Language", "TV Aspect", "Analog Audio Output", "Quick Start")

Restore Default Settings

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

DivX Registration (⇒ 22)

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

System Information

Display firmware version of this unit, wireless LAN module of your Wireless LAN Adaptor.

Firmware Update (⇒ 17)

Press [OK] to show the following settings:

Automatic Update Check

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

Update Now

You can update the firmware manually.

Troubleshooting guide

Before requesting service, please perform the following steps.

Do you have the latest firmware installed?

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

•

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

For USA:

http://www2.panasonic.com/consumer-electronics/support/ Enter the model number.

For Canada:

http://www.panasonic.ca



Even so, you still have trouble,

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)" (⇒ 46) or "Limited Warranty (Only for CANADA)" (⇒ 47).

The following do not indicate a problem with this unit:

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

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

Press and hold [POWER 0/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 [OK], [B] and [Y] on the remote control at the same time for more than 5 seconds.
 - "00 RET" is displayed on the unit's display.
- ② Repeatedly press [▶] (right) on the remote control or [POWER ₺/l] on the unit until "06 FTO" is displayed on the unit's display.
- ③ Press [OK] on the remote control or [▲ OPEN/CLOSE] on the unit.

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:
- While the unit is off, press and hold [OK], [B] and [Y] on the remote control at the same time for more than 5 seconds.
 - "00 RET" is displayed on the unit's display.
- ② Repeatedly press [▶] (right) on the remote control or [POWER ம/l] on the unit until "08 FIN" is displayed on the unit's display
- ③ Press and hold [OK] on the remote control or [▲ OPEN/ CLOSE] on the unit for at least 3 seconds.

Power of 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.

- ➤ The remote control and main unit are using different codes. Change the code on the remote control. (⇒ 33)
- ➤ It may be necessary to set the manufacturer code or the remote control code again after changing the batteries for the remote control. (⇒ 17)

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

Picture

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

Picture is distorted.

- An incorrect resolution is selected in "Component Video Resolution" or "HDMI Resolution". Reset the setting as follows:
- While the unit is on, press and hold [OK], [B] and [Y] on the remote control at the same time for more than 5 seconds.
 - "00 RET" is displayed on the unit's display.
- ② Repeatedly press [►] (right) on the remote control or [POWER ம/l] on the unit until "04 PRG" is displayed on the unit's display.
- ③ Press and hold [OK] on the remote control or [▲ OPEN/ CLOSE] on the unit for at least 3 seconds. Set the item again. (⇒ 32)
- 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)

Video is not output.

- ➤ Set the "High Clarity Sound" in the Playback menu to "Off" to use the COMPONENT VIDEO OUT terminal or the VIDEO OUT terminal. (⇒ 29)
- ➤ Video from the HDMI SUB AV OUT terminal is not output when the "HDMI(SUB) Output Mode" is set to "V.OFF". (⇒ 32)

Video is not output in high-definition.

➤ Confirm that the "HDMI Video Mode", "HDMI Resolution", and "Component Video Resolution" in the Setup menu are set properly. (⇒ 32)

3D video is not output.

- ➤ Is there a non-3D compatible amplifier/receiver connected between this unit and a TV? (⇒ 10)
- ➤ If there is a non-3D compatible amplifier/receiver connected to the HDMI SUB AV OUT terminal, set the "HDMI(SUB) Output Mode" to "V.OFF". (⇒ 10)
- ➤ Are the settings on this unit and the TV correct? (⇒ 23)
- Is the amplifier/receiver connected to between this unit and TV on?

No subtitles.

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

The subtitles overlap closed captions recorded on discs.

➤ Turn off the subtitles or turn off the closed caption setting on the TV. (⇒ 28)

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.

 (Adjustment using "Screen Aspect" (⇒ 20) on the unit is also possible)

Audio

Cannot switch audio.

➤ When connecting an amplifier/receiver using a COAXIAL/ OPTICAL terminal or an HDMI terminal, you cannot switch the audio if "Digital Audio Output" is set to "Bitstream". Set "Digital Audio Output" to "PCM" or connect using AUDIO OUT terminal. (⇒ 11, 31)

Cannot hear the desired audio type.

- ➤ Check the connections and the "Digital Audio Output" settings. (⇒ 31)
- ➤ When the unit is connected to an amplifier/receiver with the AUDIO OUT terminal, set "Analog Audio Output". (⇒ 32)
- ➤ To output audio from a device connected with an HDMI cable, set "HDMI Audio Output" to "On" in the Setup menu. (⇒ 32)
- ➤ When connecting this unit to a TV via an HDMI MAIN AV OUT and to an amplifier/receiver via an HDMI SUB AV OUT, set "HDMI(SUB) Output Mode" to "V.OFF". (⇒ 10)

Playback

Disc cannot be played.

➤ The disc is dirty. (⇒ 4)

The contents of the USB device cannot be read.

- USB devices connected using a USB extension cable other than the one included or a USB hub may not be recognized by this unit.
- If inserted during playback the USB device may not be recognized by this unit.
- If two USB devices other than Wireless LAN adaptor are connected simultaneously, they will not be recognized by this unit.

Still pictures (JPEG) do not play back normally.

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

I can't play back BD-Live.

- ➤ The SD card is write-protected. (⇒ 7)
- ➤ Confirm that this unit is connected to the broadband Internet. (⇒ 12)
- ➤ Confirm the "BD-Live Internet Access" settings. (⇒ 30)
- ➤ Confirm an SD Card is inserted into the SD Card slot. (⇒ 18)

Network

I can't connect to the network.

- ➤ Confirm the network connection and settings. (\$\Rightarrow\$ 12, 33)
- 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. BDT350

- ➤ Higher transfer rate router such as 802.11n (2.4 GHz or 5 GHz) Wireless router (Access Point) may solve the problem. If you use 802.11n (2.4 GHz or 5 GHz) Wireless router (Access Point), 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 "Access Point Connection Setting" screen (⇒ 33), 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 (Access point) and see if the connection state improves. If there is no improvement, connect to a wired network and perform the "Network Easy Setting" (⇒ 15) again.

Messages

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

On

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 blinking and re-insert the card.

No disc is inserted.

> The disc may be upside down.

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

IP address is not set.

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

The current security setting of Wireless LAN is low. It is recommended to change the setting. | BDT350|

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 [POWER ம/l] on the main unit to switch the unit to standby for 3 seconds. Now press [POWER ம/l] on the main unit again to turn the unit on.

HDMI ONLY

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

NET

> Displays while VIERA CAST is starting up.

No PLAY

➤ There is a viewing restriction on a BD-Video or DVD-Video. (⇒ 30)

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 🗆

(" \square " stands for a number.)

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

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



U59

The unit is hot.

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

U72

U73

- The HDMI connection acts unusually.
 - Turn the unit and TV off.
 - Disconnect the HDMI cable between the player and the TV.

$H\square\square$ or $F\square\square$

(" \square " stands for a number.)

- > There is something unusual.
- Check the unit using the troubleshooting guide. If the service number does not disappear, do the following.
- ① Disconnect the plug from the AC outlet, wait a few seconds, then reconnect it.
- ② Press [POWER 🖒/I] to turn the power on.

If the service number does not disappear despite doing the above, request service from the dealer. Inform the dealer of the service number when requesting service.

START

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

UPD□/□

(" □ " stands for a number.)

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

FINISH

> The firmware update is complete.

Audio Information

About audio from audio output terminals

The audio output differs depending on which terminals are connected to the amplifier/receiver, and the settings on the unit. (⇒ 31, Digital Audio Output)

• The number of channels listed is the maximum possible number of output channels.

HDMI AV OUT/DIGITAL AUDIO OUT (Coaxial/Optical)

Terminal		HDMI A	AV OUT		DIGITAL AUDIO OUT	
"Dolby D/Dolby D +/Dolby TrueHD"/"DTS/DTS-HD"	"Bitstream" ^{∗1}		"PCM" ²		"Bitstream"	"PCM"
"BD-Video Secondary Audio"	"On"*³	"Off"	"On"* ⁴	"Off"	"On"/"Off"	"On"/"Off"
Dolby Digital/	Dolby Digital		DVD-Video : 5.1ch PCM		Dolby Digital/	
Dolby Digital EX ^{*5}			BD-Video : 7.1ch PCM ⁻⁷ 7.1ch PCM	Dolby Digital EX*6		
Dolby Digital Plus/ Dolby TrueHD		Outputs using		Dolby Digital	Down-mixed	
DTS Digital Surround/		original audio	· · · · · · · · · · · · · · · · · · ·	DTS Digital		
DTS-ES ^{*5}	DTS Digital Surround		BD-Video : 7	7.1ch PCM*8	Surround/ DTS-ES*6	
DTS-HD High Resolution Audio/ DTS-HD Master Audio		Surround	7.1ch	PCM ^{*8}	DTS Digital Surround	
7.1ch LPCM	7.1ch PCM			Down-mixed	2ch PCM	

AUDIO OUT

Terminal	7.1ch AUDIO OUT	5.1ch AUDIO OUT	2ch AUDIO OUT
"BD-Video Secondary Audio"	"On"³⁴/"Off"	"On"/"Off"	"On"/"Off"
Dolby Digital/	DVD-Video : 5.1ch		
Dolby Digital EX	BD-Video: 7.1ch*7		
Dolby Digital Plus/ Dolby TrueHD	7.1ch		
DTS Digital Surround/	DVD-Video : 5.1ch	5.1ch	2ch
DTS-ES	BD-Video : 7.1ch*8		
DTS-HD High Resolution Audio/ DTS-HD Master Audio	7.1ch ⁻⁸		
7.1ch LPCM	7.1ch		

[&]quot;1 When the connected equipment is not supported with these audio formats, the audio is output as Dolby Digital bitstream, DTS Digital Surround bitstream or down-mixed 2ch PCM (e.g., TV).

¹² When the connected equipment is not supported with multi channel surround, the audio is output as down-mixed 2ch PCM.

^{&#}x27;3 When playing BD-Video without secondary audio or button click sound, the audio is output as the same format as if "BD-Video Secondary Audio" was set to "Off".

¹⁴ When playing BD-Video with secondary audio or button click sound, the audio is output as 5.1ch.

With PCM output, Dolby Digital EX becomes PCM audio decoded as Dolby Digital, DTS-ES recorded to DVD-Video becomes PCM audio decoded as DTS Digital Surround, and DTS-ES recorded to BD-Video becomes PCM audio decoded as DTS-ES.

^{&#}x27;6 When "BD-Video Secondary Audio" is set to "On", Dolby Digital EX is output as Dolby Digital and DTS-ES is output as DTS Digital Surround, however if playing BD-Video without secondary audio or button click sound, the audio is output as the original format.

When BD-Video is played and "7.1ch Audio Reformatting" is set to "Off", the audio is output as 5.1ch.

¹⁸ The audio output is amplified from 5.1ch or 6.1ch to 7.1ch depending on the DTS, Inc. specifications.

The settings of the audio output vary depending on the connected equipment. Refer to the table below and set each of the items.

Press [SETUP] ⇒ "Audio" ⇒ Set each item

For details of the each item, refer to page 31.

		Example of connected equipment				
Se	etup menu	TV via HDMI' ¹	Receiver with HD audio ^{·2} decoder via HDMI	Receiver without HD audio ² decoder via HDMI	Receiver via COAXIAL or OPTICAL	Receiver via analog output ⁻³
"Digital	"Dolby D/Dolby D +/Dolby TrueHD"	"PCM"	" <u>Bitstream</u> "	"PCM"	"PCM"	No effect
Audio	"DTS/DTS-HD"	"PCM"	" <u>Bitstream</u> "	"PCM"	"PCM"	No effect
Output"	"BD-Video Secondary Audio"	"Off"	"Off"	"Off"	"Off"	"Off"
"PCM Do	wn Conversion"	No effect	No effect	No effect	" <u>Off</u> "*4	No effect
"[Downmix"	" <u>Stereo</u> "	No effect	No effect	" <u>Stereo</u> "⁵⁵	No effect
"High	Clarity Sound"	"Enable"	" <u>Disable</u> "⁴6	" <u>Disable</u> "*6	" <u>Disable</u> "*6	" <u>Disable</u> "⁵

- Because underlined items are the factory presets, it is not necessary to change these settings.
- 1 If connected to TV via the COAXIAL, OPTICAL or AUDIO OUT terminal, these settings have no effect.
- ² HD audio: Dolby Digital Plus, Dolby TrueHD, DTS-HD High Resolution Audio and DTS-HD Master Audio
- "3 Set "Analog Audio Output" to "7.1ch" or "2ch (Downmix) + 5.1ch". (Press [SETUP] → TV / Device Connection)
- ^{*4} If the connected equipment that does not support 96 kHz, set to "On".
- ^{*5} If the connected equipment that supports the virtual surround function, set to "Surround encoded".
- *6 When connected to TV via the HDMI terminal for outputting image, set to "Enable".

About MP3/JPEG/DivX/ AVCHD/MPEG2 files

MP3

File format	MP3	
Extension	Files must have the extension ".mp3" or ".MP3".	
Compression rate	32 kbps to 320 kbps	
Sampling rate	44.1 kHz/48 kHz	
Reference	ID3 tags: version 1, 2.2, 2.3, 2.4 (Only titles and the names of artists)	

JPEG

File format	JPEG
Extension	Files must have the extension ".jpg" or ".JPG".
Picture resolution	between 34×34 and 8192×8192 pixels (sub sampling is 4:2:2 or 4:2:0)
Reference	JPEG conforming DCF* is supported. • MOTION JPEG and Progressive JPEG is not supported

- Design rule for Camera File system: unified standard established by Japan Electronics and Information Technology Industries Association (JEITA).
- DVD-RAM must conform to UDF 2.0.
- BD-RE must conform to UDF 2.5.

DivX

File format	DivX
Extension	Files must have the extension ".DIVX", ".divx", ".AVI" or ".avi".
Picture resolution	Up to 1920×1080 pixels
Reference	 DivX certified to play DivX video up to HD 1080p, including premium content. Video Number of streams: Up to 1 Codec: DIV3, DIV4, DIVX, DX50, DIV6 FPS (Frame Per Second): Up to 60 fps Audio Number of streams: Up to 8 Format: MP3, MPEG, Dolby Digital Multi channel: Dolby Digital is possible. MPEG multi is 2 ch conversion. GMC (Global Motion Compensation) is not supported.

- DVD-R and DVD-R DL must conform to UDF 1.02 without ISO9660 and UDF 1.5 with ISO9660.
- BD-R must conform to UDF 2.5.

Subtitles text file of DivX

File format	Subtitles text file of DivX	
riie ioiiliat	MicroDVD, SubRip, or TMPlayer	
Extension	Files must have the extension ".SRT", ".srt", ".SUB", ".sub", ".TXT" or ".txt".	
Reference	 The DivX video file and subtitles text file are inside the same folder, and the file names are the same except for the file extensions. Depending on the methods used to create the file or the state of the recording, only parts of the subtitles may be displayed, or the subtitles may not be displayed at all. 	

AVCHD

File format	AVCHD format (V1.0) used on High Definition Video Camera (Panasonic and some others)
Codec	MPEG-4 AVC/H.264

• Discs must conform to UDF 2.5.

MPEG2

File format	SD-Video format* used on Standard Definition Video Camera (Panasonic and some others)
Codec	MPEG2

* SD-Video Entertainment Video Profile

- With certain recording states and folder structures, the play order may differ or playback may not be possible.
- CD-R, CD-RW: ISO9660 level 1 or 2 (except for extended formats), Joliet This unit is compatible with multi-session.
 This unit is not compatible with packet writing.
- DVD-R, DVD-R DL (except for AVCHD): ISO9660 level 1 or 2 (except for extended formats), Joliet, UDF bridge (UDF 1.02/ISO9660) This unit is not compatible with multi-session.

This unit is not compatible with packet writing.

Peference

Structure of folders that can be played in this unit

You can play files on this unit by structure of folders as shown below. However depending on the method of writing data (writing software), play may not be in the order you numbered the folders.

Folder which can be displayed with this unit

***: Numbers XXX: Letters

*1 ***: from 001 to 999

*2 ***: from 100 to 999

XXXXX: 5 figures

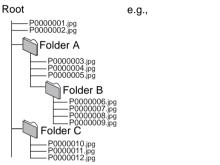
*3 ****: from 0001 to 9999

XXXX: 4 figures

Structures of still picture (JPEG) folders

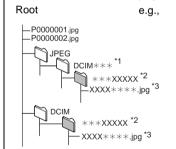
in DVD-R*4/DVD-R DL*4/CD-R*5/CD-RW*5

Files inside a folder are displayed in the order they were updated or taken.



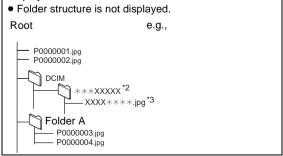
in BD-RE*6/DVD-RAM*4

• Folder structure is not displayed.



in SD card*4/USB device*4

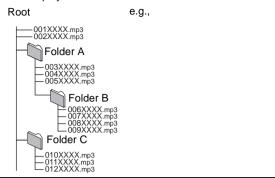
Displays JPEG files in all folders.



Structure of MP3 folders

in DVD-R/DVD-R DL/CD-R/CD-RW/USB device

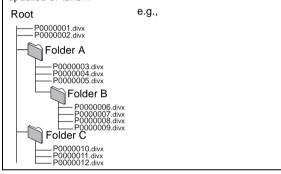
Prefix the file names with 3-digit numbers in the order you want to play them.



Structure of DivX folders

in BD-R*7/DVD-R*7/DVD-R DL*7/CD-R*7/CD-RW*7/USB device*7

Files inside a folder are displayed in the order they were updated or taken.



- ⁴ The total combined maximum number of recognizable picture contents and folders: 3000 picture contents and 300 folders.
- The total combined maximum number of recognizable picture contents and folders: 999 picture contents and 99 folders.
- The total combined maximum number of recognizable picture contents and folders: 9999 picture contents and 300 folders.
- ⁷ The total combined maximum number of recognizable file contents and folders: 200 file contents and 300 folders.

Supplemental information

■ TV/Amplifier/Receiver code list

Brand	TV Code
Panasonic	0051 / 0055 / 0250 / 0650
FUNAI	0180 / 0171 / 0179
HITACHI	0016 / 0032 / 0038 / 0056 / 0095 / 0097 / 0145 / 0151 / 0173 / 0227 / 0279 / 0409 / 0413 / 1145
INSIGNIA	1564 / 0171 / 1204 / 1326 / 1517 / 1660 / 2002 / 2003 / 2004
JVC	0036 / 0053 / 0069 / 0160 / 0169 / 0182 / 0731 / 1253
LG	0019 / 0030 / 0032 / 0106 / 0178 / 0317 / 0409 / 0442 / 0457 / 0700 / 0856 / 1178 / 1265
MITSUBISHI	0014 / 0019 / 0093 / 0098 / 0150 / 0155 / 0178 / 0331 / 0358 / 0836 / 0868 / 1250
PHILIPS	0054 / 0690 / 1154 / 1454
PIONEER	0038 / 0166 / 0172 / 0679 / 0866
POLAROID	0765 / 0865 / 1262 / 1276 / 1314 / 1316 / 1326 / 1327 / 1328 / 1341 / 1498 / 1523 / 2002
SAMSUNG	0019 / 0030 / 0032 / 0056 / 0060 / 0178 / 0329 / 0408 / 0427 / 0587 / 0702 / 0766 / 0812 / 0814 / 1060
SANYO	0088 / 0107 / 0146 / 0154 / 0159 / 0232 / 0484 / 0799 / 0893
SHARP	0039 / 0093 / 0153 / 0157 / 0165 / 0220 / 0281 / 0386 / 0398 / 0491 / 0688 / 0818 / 0851
SONY	0000 / 0011 / 0080 / 0111 / 0273 / 0353 / 0810 / 0834 / 0867 /1100
TOSHIBA	0036 / 0060 / 0149 / 0154 / 0156 / 0650 / 0832 / 0845 / 1156 / 1164 / 1256 / 1265 / 1356 / 1656 / 1704
VIZIO	1758 / 0864 / 0885 / 1756
WESTINGHOUSE	0885 / 0889 / 0890 / 1282 / 1577

Brand	Amplifier Code	Receiver Code
Panasonic	0308	1308 / 0039 / 0367 / 1641 / 2001 / 2002
COBY		1513 / 2003
DENON		1360 / 0004 / 0273 / 1142 / 1311
EMERSON		1340 / 2005
HARMAN / KARDON		0110 / 0189 / 1306
INSIGNIA		1030 / 1077 / 1751 / 2004
JVC		0074 / 1374 / 1495 / 1855 / 1871
LG		1293 / 2006
MARANTZ		1189 / 1269 / 0039 / 0189 / 1289
ONKYO		0135 / 0380 / 1298 / 1320
PHILIPS		1189 / 1269 / 0189 / 0391 / 1120 / 1266 / 1368
PIONEER	0823	1023 / 0150 / 0244 / 0531 / 0630 / 1343 / 1384
RCA	0823	1023 / 1609 / 1254 / 0054 / 0530 / 0531 / 1074 / 1390 / 1511
SAMSUNG		1295
SONY	0815 / 1126	1622 / 0158 / 0168 / 0474 / 1367 / 1529 / 1658 / 1758
YAMAHA	0354	0176 / 0186 / 1331

■ Video attribute

Display	Meaning
MPEG-2/MPEG-4 AVC/VC-1	Video recording method
480/576/720/1080	Video Format
24p/50i/60i/50p/60p	Video Frame rate
YCbCr4:2:2/YCbCr4:4:4/RGB	Color Space
bps (bit per second)	Transfer rate of bit
V.OFF	No video from HDMI(SUB) terminal

■ Audio attribute

Display	Meaning
LPCM/ Digital/ Digital+/ TrueHD/DTS/DTS-ES Mtrx/ DTS-ES Dscrt/DTS 96/DTS 96 ES Mtrx/ DTS-HD HI RES/DTS-HD MSTR/MPEG	Signal type
ch (channel)	Number of channels
k (kHz)	Sampling frequency
b (bit)	Number of bits
bps (bit per second)	Transfer rate of bit

■ Display languages list

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

■ Language code list

Language	Code	Language (Code	Language C	ode
Abkhazian	6566	Gujarati:	7185	Rhaeto-Romano	ce:
Afar:	6565	Hausa:	7265		8277
Afrikaans:	6570	Hebrew:	7387	Romanian:	8279
Albanian:	8381	Hindi:	7273	Russian:	8285
Amharic:	6577	Hungarian:	7285	Samoan:	8377
Arabic:	6582	Icelandic:	7383	Sanskrit:	8365
Armenian:	7289	Indonesian:	7378	Scots Gaelic:	7168
Assamese:	6583	Interlingua:	7365	Serbian:	8382
Aymara:	6589	Irish:	7165	Serbo-Croatian:	8372
Azerbaijani:	6590	Italian:	7384	Shona:	8378
Bashkir:	6665	Japanese:	7465	Sindhi:	8368
Basque:	6985	Javanese:	7487	Singhalese:	8373
Bengali; Bang	ıla:	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

Reference

Specifications

Signal system:

Operating temperature range:

+5 °C to +35 °C (+41 °F to +95 °F)

Operating humidity range:

10 % to 80 % RH (no condensation)

Video output:

1.0 Vp-p (75 Ω)/Pin jack:1 system

Component video output (Y:green, P_B:blue, P_R:red):

Y:1.0 Vp-p (75 Ω)/P_B, P_R:0.7 Vp-p (75 Ω)/Pin jack:1 system

Audio output:

2 Vrms (1 kHz, 0 dB)/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 Type A (19 pin) : 2 system(Main/Sub)

HDMI AV output: Type A (19 pin) : 2 system(Main/Śub)
HDMI (3D, Content Type)
This unit supports "HDAVI Control 5" function.

SD card slot: Connector : 1 system
USB slot: USB2.0 : 2 systems
Ethernet: 10BASE-T/100BASE-TX : 1 system
LASER Specification

Class I LASER Product:

Dimensions (W×D×H)

Wave length: 790 nm (CDs)/650 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. 31 W
Power consumption in standby mode: Approx. 0.1 W

Power consumption in quick start standby mode:

Approx. 7.7 W Including the projecting parts:

430 mm×245 mm×66 mm (Approx. 16 15/16"×9 11/16"×2 5/8")

Mass (Weight): Approx. 2.6 kg (5.7 lbs)

Wireless LAN Adaptor (DY-WL10)

 Dimensions (W×D×H):
 44 mm×72 mm×27 mm

 (1 3/4"×2 7/8"×1 1/8")

 Mass (Weight):
 Approx. 29 g (1.02 oz)

 Antenna:
 Tx 1, Rx 2

 Interface:
 USB2.0

Standard Compliance:

IEEE802.11n / IEEE802.11a / IEEE802.11g / IEEE802.11b Transmission system:

MICO OFFINA

MISO-OFDM system, OFDM system, DSSS system

Frequency Range:

IEEE802.11n / IEEE802.11a:

5.15 GHz - 5.35 GHz/5.47 GHz - 5.825 GHz IEEE802.11g / IEEE802.11b / IEEE802.11n:

2.4 GHz - 2.4835 GHz

Transfer rate (standard)*:

IEEE802.11n: Tx Max. 150 Mbps, Rx Max. 300 Mbps
IEEE802.11g / IEEE802.11a: Max. 54 Mbps
IEEE802.11b: Max. 11 Mbps

Access Mode:

Security: Infrastructure mode
WPA2-PSK (TKIP/AES)
WPA-PSK (TKIP/AES)
WEP (64 bit / 128 bit)

(This unit supports WPA and WPA2 encryption.)

Transfer rates are theoretical values; however, actual communication rate will vary according to communication

environment or connected equipment.

Specifications are subject to change without notice.

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Contact Information

cdrequest@am-linux.ip

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

http://www.am-linux.jp/dl/JPRCBW98

Reference

Glossary

AVCHD

AVCHD is a new format (standard) for high-definition video cameras that can be used to record and play high-resolution HD images.

BD-J

Some BD-Video discs contain Java applications, and these applications are called BD-J. You can enjoy various interactive features in addition to playing normal video.

Deep Color

Deep Color is a name for the device that can reproduce greater color gradation (4096 steps) when connected to a TV that supports the Deep Color with an HDMI cable. You can enjoy exceptionally rich, natural-looking colors, with smooth, detailed gradation and minimal color banding. [A lower color gradation (256 steps), without Deep Color, will be reproduced if connected to a TV which does not support Deep Color. The unit will automatically set appropriate output to suit the connected TV.]

DLNA (Digital Living Network Alliance) BDT350

DLNA is a standard that makes DLNA Certified digital electronics easier and more convenient to use on a home network.

Dolby Digital

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

Dolby Digital Plus

Multi-channel audio and higher audio quality is made possible using Dolby Digital Plus. BD-Video supports up to 7.1 channel output.

Dolby TrueHD

Dolby TrueHD is a very high quality audio format that reproduces the studio master audio. BD-Video supports up to 7.1 channel output.

DTS (Digital Theater Systems)

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

DTS-HD

DTS-HD is a high-quality, sophisticated audio format used in movie theaters. Previous DTS Digital Surround-compatible equipment can play DTS-HD as DTS Digital Surround audio. BD-Video supports up to 7.1 channel output.

DTS-HD High Resolution Audio

This is a signal format achieved by improving the previous DTS, DTS-ES and DTS96/24 formats. It is compatible with sampling frequency 96 kHz/48 kHz. BD-Video supports up to 7.1 channel output.

DTS-HD Master Audio

This is a lossless audio format and compatible with 96 kHz/7.1ch or less. In addition, faithful reproduction of the master audio is enabled using lossless audio encoding technology. BD-Video supports up to 7.1 channel output.

HDMI (High-Definition Multimedia Interface)

HDMI is a digital interface for consumer electronic products. Unlike conventional connections, it transmits uncompressed digital video and audio signals on a single cable.

Local storage

This storage area is used as a destination for sub contents for playing BD-Live on BD-Video.

LPCM (Linear PCM)

These are a kind of PCM format.

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

P4HD (Pixel Precision Progressive Processing for HD)

This is a processor which makes use of an exclusive Panasonic algorithm. Various processing is supported, including a high-level conversion of the TV scanning format from interlace to progressive and a high-level conversion of standard resolution (480i or 576i) video signal to a 1080 High-Definition video signal.

Consequently, this unit is able to provide video of optimal resolution to the connected TV.

PCM (Pulse Code Modulation)

This is one format for converting analog audio into digital audio, enabling you to enjoy digital audio with no hassle.

x.v.Color™

 $x.v.Color^{TM}$ is a name for devices that are compatible with the xvYCC format, an international standard for expanded color in motion pictures, and that follow the rules for signal transmission.

You can enjoy vivid colors of wider color ranges for a more realistic picture when connected to a TV that supports the $x.v.Color^{TM}$ with HDMI cable.

24p

This is 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.

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

Panasonic Consumer Electronics Company, Division of Panasonic Corporation of North America One Panasonic Way, Secaucus, New Jersey 07094

Panasonic Blu-ray and DVD Products Limited Warranty

Limited Warranty Coverage (For USA and Puerto Rico Only)

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

Product or Part Name	Parts	Labor
Blu-ray Disc Player, Portable Blu-ray Disc Player	1 year	90 days
Blu-ray Home Theater System	1 year	1 year
DVD Player, Portable DVD Player	1 year	90 days
DVD Recorder	1 year	90 days
Rechargeable Batteries (pack), DVD-RAM Disc (defective exchange)	10 days	Not Applicable
Wireless LAN adaptor	90 days	Not Applicable

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. This Limited Warranty excludes both parts and labor for non-rechargeable batteries, antennas, and cosmetic parts (cabinet). This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is".

Mail-In Service

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

Panasonic Exchange Center 4900 George McVay Drive Suite B McAllen, TX 78503

panacare@us.panasonic.com

When shipping the unit, carefully pack, include all accessories, and send it prepaid, adequately insured and preferably in the original carton. If Lithium Ion batteries are shipped by air the package must be labeled "Contains Lithium Ion Battery (No lithium metal)". Damaged batteries are prohibited from shipment by US Mail. Batteries must be securely packed in a manner to prevent short-circuiting and a package cannot contain more than 3 Lithium Ion batteries. Include a letter detailing the complaint, a return address and provide a daytime phone number where you can be reached. A valid registered receipt is required under the Limited Warranty.

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

Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls,

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

improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Service Center or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE".

THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY.

(As examples, this excludes damages for lost time, travel to and from the servicer, loss of or damage to media or images, data or other memory or recorded content. The items listed are not exclusive, but for illustration only.)

ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Service Center. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

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

Customer Services Directory (United States and Puerto Rico)

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

http://www.panasonic.com/help

or, contact us via the web at:

http://www.panasonic.com/contactinfo

You may also contact us directly at:

1-800-211-PANA (7262)

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

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

Accessory Purchases (United States and Puerto Rico)

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

http://www.pstc.panasonic.com

Or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:

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

(Monday-Friday 9am-9pm EST)

Panasonic Service and Technology Company

20421 84th Avenue South, Kent, WA 98032

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

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

As of November 2009

User memo:	
DATE OF PURCHASE	_
DEALER NAME	
DEALER ADDRESS	
TELEPHONE NUMBER	
<u> </u>	

Limited Warranty (Only for CANADA)

Panasonic Canada Inc.

PANASONIC PRODUCT—LIMITED WARRANTY

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

Technics Audio Product
Panasonic Portable/Clock Radio (without Tape, CD, MD)
Panasonic Audio/SD Audio Product
Panasonic BD/DVD Product
Panasonic Combination DVD Player/VCR
Panasonic Combination DVD Recorder/VCR

Accessories including rechargeable batteries

One (1) year, parts and labour Ninety (90) days

LIMITATIONS AND EXCLUSIONS

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

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

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

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

WARRANTY SERVICE

FOR PRODUCT OPERATION ASSISTANCE, please contact:

Our Customer Care Centre: Telephone #: (905) 624-5505 1-800 #: 1-800-561-5505

Fax #: (905) 238-2360

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

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

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

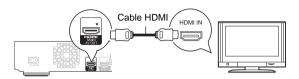
IF YOU SHIP THE PRODUCT TO A SERVICENTRE

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

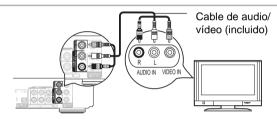
Referencia rápida en español (Spanish Quick Reference)

Conexiones básicas

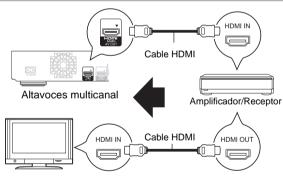
Conexión a un televisor compatible con HDMI



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



• 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.

Reproducción básica

Preparación

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

Pulse [POWER] para encender la unidad.

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

2 Inserte el medio.

Inicia la reproducción

Pulse [▶] (PLAY).

Parada

Pulse [■].

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 [■] varias veces para visualizar "STOP" en el visor de la unidad.
- En los discos BD-Video incluidos los BD-J, la función de reanudación de la reproducción no funciona.

Pausa

Pulse [II].

• Pulse [▮1] otra vez o [▶] (PLAY) para reiniciar la reproducción.

Búsqueda/Cámara lenta

Búsqueda

Durante la reproducción, pulse [◄◄] o [▶▶].

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

Cámara lonta

Durante la pausa, pulse [◄◄] o [▶▶].

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

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.

• Cada pulsación aumenta el número de saltos.

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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.

VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR/Class II (IIa)
CLASS 1M VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1, +A2/CLASS 1M
RAYONNEMENT LASER VISIBLE ET INVISIBLE, CLASSE 1M, EN CAS D'OUVERTURE. NE PAS REGARDER DIRECTEMENT À L'AIDE D'INSTRUMENTS D'OPTIQUE,
SYNLIG OG USYNLIG LASERSTRÅLING KLASSE 1M, NÅR LÅGET ER ÅBENT. UNDGÅ AT SE LIGE PÅ MED OPTISKE INSTRUMENTER.
_ AVATTAESSA OLET ALTTÍINA LUOKAN 1M NÄKYVÄÄ JA NÄKYMÄTÖNTÄ LASERSÄTEILYÄ, ÄLÄ KATSO OPTISELLA LAITTEELLA SUORAAN SÄTEESEEN,
KLASS 1M SYNLIG OCH OSYNLIG LASERSTRÅLNING NÅR DENNA DEL ÅR ÖPPNAD. BETRAKTA EJ STRÅLEN DIREKT GENOM OPTISKT INSTRUMENT.
SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG KLASSE 1M, WENN ABDECKUNG GEÖFFNET. NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN.
- 打开时有可见及不可见激光辐射。避免光束照射。
ここを開くと可視及び不可視レーザー光が出ます。 ビームを見たり、触れたりしないでください。 VQL1V70

(Inside of product)

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