# **Panasonic**

Owner's Manual

Blu-ray Disc™ Player

Model No. DMP-UB400 DMP-UB300







Unless otherwise indicated, illustrations in these Owner's Manual are of DMP-UB400.



# Firmware updates

Panasonic is constantly improving the unit's firmware to ensure that our customers are enjoying the latest technology. Panasonic recommends updating your firmware as soon as you are notified.

For details, refer to "Firmware updates" ( $\Rightarrow$  18) or http://panasonic.jp/support/global/cs/ (This site is in English only.)

Thank you for purchasing this product.

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

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



# IMPORTANT SAFETY INSTRUCTIONS

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

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



- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.





CAUTION: 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

#### **UB400**

This device complies with Industry Canada's licence-exempt RSSs.
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 the device.

Contains IC: 1353A-WLU5260

5.15-5.25 GHz band is restricted to indoor operatinos only. High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAM devices.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules.

This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption ratio (SAR). But it is desirable that it should be installed and operated keeping

the radiator at least 20 cm ( $7^{7/8'}$ ) or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

CAN ICES-3(B)/NMB-3(B)

Certified to CAN/CSA STD C22.2 No.60065.

## **Precautions**

#### WARNING

#### Unit

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

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

#### AC power supply cord

The power plug is the disconnecting device.

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

#### CAUTION

#### Unit

- This unit utilizes a laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Do not place sources of naked flames, such as lighted candles, on this unit.
- Some portions of this unit may become hot during use. When moving or cleaning this unit, disconnect the AC power supply cord and wait for 3 minutes or longer.

#### **Placement**

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

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

#### **Batteries**

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

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

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

# Restriction on use of unauthorized copied content

This unit adopts the following technology for copyright protection. Cinavia Notice

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

More information about Cinavia technology is provided at the Cinavia Online Consumer Information Center at <a href="http://www.cinavia.com">http://www.cinavia.com</a>. To request additional information about 100 miles of the control of the contro

http://www.cinavia.com. To request additional information about Cinavia by mail, send a postcard with your mailing address to: Cinavia Consumer Information Center, P.O. Box 86851, San Diego, CA, 92138, USA.

#### **UB400**

#### Wireless LAN connection

The following limits are in place regarding the usage of this unit. You must be aware of these limits before using this unit. Panasonic will in no way be responsible for any incidental damage which may arise due to a failure to obey these limits, or to any condition of use or disuse of this unit.

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

## To dispose or transfer this unit

The unit may keep the user settings information in the unit. If you discard this unit either by disposal or transfer, then follow the procedure to return all the settings to the factory presets to delete the user settings. ( $\Rightarrow$  35, "To return all settings to the factory preset.")

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

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Unit and media care 5 Playable media 6	To enjoy Ultra HD Blu-ray Disc featured with High Dynamic Range (HDR)
Control reference guide 8  Connecting to a TV 10  Connecting to	If you see a message about High Dynamic Range (HDR) compatible issue while an Ultra HD Blu-ray Disc is played back, please check your TV settings as follows.
an amplifier/receiver	An example of the message: "This player is not connected to a High Dynamic Range (HDR) compatible TV."
Settings	1) If you are using a Panasonic TV compatible with 4K and High Dynamic Range (HDR) released in 2015 or 2016, (DX900/DX800/DX700 series etc.), please check your TV settings as follows.
HOME menu	Switch the TV to the HDMI input.      Press "MENU" button of your TV remote control
Playback19	<ul><li>Select "HDMI HDR Setting" in "Setup"</li><li>Select "On" in "HDMI HDR Setting"</li></ul>
Network Service (Enjoying NETFLIX, etc.) 22 Home Network feature 23	2) If you use a TV not from Panasonic, compatible with 4K and High Dynamic Range (HDR), please refer to the operating instructions of the TV.
VIERA Link	3) When you play a High Dynamic Range (HDR) disc on a TV without High Dynamic Range (HDR) capability, the disc can be played back (in non-HDR quality) even if the message appears.

## **Accessories**

Check the supplied accessories before using this unit

- 1 Remote control (N2QAYB001157)
- 2 Batteries for remote control
- 1 AC power supply cord (K2CB2YY00092)

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

 $\square$ 

- Product numbers are provided in this Owner's Manual correct as of April 2017.
  - These may be subject to change.
- Do not use AC power supply cord with other equipment.

#### ■ Using the remote control

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



(Alkaline or manganese batteries)

Point it at the remote control signal sensor on this unit.  $(\Rightarrow 9)$ 

# 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.

#### ■ This unit's lens

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

#### Clean discs



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

#### ■ Disc handling precautions

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

# Playable media

Device	Media markings	Device types	Contents format
	ULTRAHD M	Ultra HD Blu-ray*1*2	Video
BD		BD-Video	Video
00	Blu-ray Disc	BD-RE	Video, JPEG, MPO
	Dia rog Disc	BD-R	Video, MKV, JPEG, MPO
	VIDEO	DVD-Video	Video
	R R4.7	DVD-R	Video, AVCHD, MKV, JPEG, MPO, AAC, ALAC,
DVD	R DL	DVD-R DL	DSD (DFF, DSF), FLAC, MP3, WAV, WMA
	R W	DVD-RW	Video, AVCHD
	_	+R/+RW/+R DL	
	DIGITAL AUDIO	Music CD	Music [CD-DA]
CD	_	CD-R CD-RW	MKV, JPEG, MPO, AAC, ALAC, FLAC, MP3, Music [CD-DA], WAV, WMA
USB	_	USB devices (up to 2 TB)	AVCHD, AVCHD 3D, MKV, MP4, MPEG2, JPEG, MPO, AAC, ALAC, DSD (DFF, DSF), FLAC, MP3, WAV, WMA

<sup>•</sup> See pages 7 and 40 for more information on the types of content that can be played.

 $<sup>^{\</sup>rm 11}$  See "Enjoying Ultra HD Blu-ray" ( $\Rightarrow$  21)  $^{\rm 12}$  Unless otherwise indicated, BD-Video content includes Ultra HD Blu-ray content in this Owner's Manual.

### Types of discs that cannot be played by this unit

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

- DVD-RAM
- Super Audio CD
- Photo CD
- DVD-Audio
- Video CD and Super Video CD
- HD DVD

### ■ Region management information

The unit can play back BD-Video/DVD-Video discs of the following regions codes, including "ALL":

Example: BD-Video DVD-Video





• The unit cannot playback discs in PAL format.

#### ■ Finalize

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

#### ■ BD-Video

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

#### **■** 3D

3D videos and 3D still pictures can be played back when this unit is connected to a 3D compatible TV using a High Speed HDMI Cable.

#### Music CD

- Operation and sound quality of CDs that do not comply with CD-DA specifications (copy control CDs, etc.) cannot be guaranteed to work.
- The digital audio content side of a DualDisc does not meet the technical specifications of the Compact Disc Digital Audio (CD-DA) format so playback may not be possible.

#### USB device

- Connect a USB device while the Home screen is displayed.
- This unit does not guarantee connection with all USB devices.
- This unit does not support USB device charging.
- FAT12, FAT16, FAT32, and NTFS file systems are supported.
- The USB port on the front of the unit supports USB 2.0 High Speed and the USB port on the rear supports to USB 3.0 Super-Speed.
- The USB port on the rear of the unit supports an HDD formatted in FAT32 and NTFS. If the HDD is not recognized, the power to the HDD may not be supplied. Supply power from an external source.
- It is not possible to use two USB devices simultaneously. (⇒ 36)
- For playback of 4K videos stored on a USB device, use USB 3.0 port on rear of the unit and USB device conforming to USB 3.0.

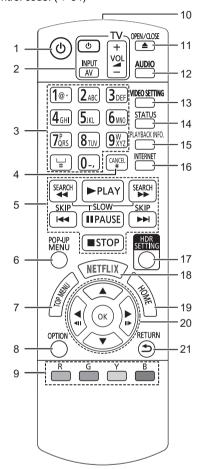
#### 

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

# Control reference guide

#### ■ Remote control

When other Panasonic devices respond to the remote control of the unit, change the remote control code. (⇒ 34)



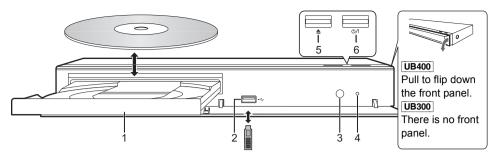
- 1 Turn the unit on and off
- 2 TV operation buttons You can operate the Panasonic TV using this unit's remote control. Some buttons may not work depending on the TV.
- 3 Select title numbers, etc./Enter numbers or characters
- 4 Cancel Clear the currently selected character. (when entering a password for "Ratings" in the Setup menu, for example)
- 5 Basic playback control buttons (⇒ 19)
- 6 Show Pop-up menu (⇒ 20)
- 7 Show Top menu (⇒ 20)
- 8 Show Option menu (⇒ 26)
- 9 Colored buttons (red, green, yellow, blue) Used for various purposes depending on the screen
- 10 Transmit the remote control signal
- 11 Open or close the disc tray (⇒ 9)
- 12 Change soundtrack (⇒ 20)
- 13 Show "Video Settings" (⇒ 27)
- 14 Show the status messages (⇒ 20)
- 15 Show "Playback Information Window" (⇒ 20)
- 16 Show the Home screen of the Network Service (⇒ 22)
- 17 Show "HDR Setting" (⇒ 20)
- 18 Show NETFLIX screen (⇒ 22)
- 19 Show HOME menu (⇒ 19)
- 20 [▲, ▼, ◀, ▶] : Move the highlight for selection

[OK]: Confirm the selection

(**◄!!**)(**!!>**): Frame-by-frame (⇒ 20)

21 Return to previous screen

#### ■ Front



- 1 Disc trav
- 2 USB port (=== DC 5 V 500 mA) This port supports USB 2.0 High Speed.
- 3 Remote control signal sensor Distance: Within approx. 7 m (23 feet) Angle: Approx. 20° up and down, 30° left and right

#### 4 POWER LED

When the unit is turned on, the LED flashes first, and then lights up.

If the LED keeps flashing, there may be an error. (⇒ 39)

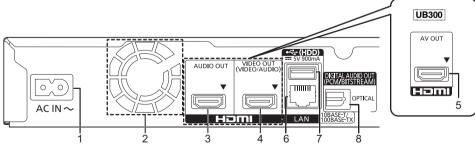
- 5 Open or close the disc tray
- 6 Standby/on switch (₺/l) (⇒ 17)
  Press to switch the unit from on to standby
  mode or vice versa. In standby mode, the unit
  is still consuming a small amount of power.

#### **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.

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

#### Rear



- 1 AC IN ( $\sim$ ) terminal ( $\Rightarrow$  10)
- 2 Cooling fan
- 3 UB400 HDMI AUDIO OUT terminal (⇒ 11)
- 4 UB400 HDMI VIDEO OUT terminal (⇒ 10)
- 5 UB300 HDMI AV OUT terminal (⇒ 10)
- 6 LAN port (⇒ 16)

- 7 USB port (HDD) (=== DC 5 V 900 mA)
  This port supports USB 3.0 Super-Speed.
- 8 UB400 DIGITAL AUDIO OUT terminal (OPTICAL terminal) (⇒ 12)
- Class II equipment (The construction of the product is double-insulated.)

# Connecting to a TV

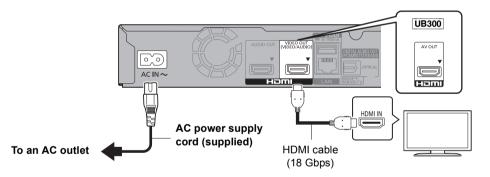
4K images can be played back when this unit is connected to 4K compatible TV.

- Before making any connections, please disconnect all the units from AC power.
   (Connect the AC power supply cord after making all connections.)
- Use the High Speed HDMI cables. Non-HDMI-compliant cables cannot be utilized.
- This unit consumes a small amount of AC power (⇒ 40) even when turned off in standby mode. For the purpose of energy conservation, the unit should be disconnected if you will not be using it for extended period of time.

#### ■ Enjoying 4K output

- To enjoy images in 4K/60p, you need an HDMI cable that supports 18 Gbps.
   When outputting 1080p or 24p (4K) signal, please use HDMI cables 5.0 meters (16.4 ft.) or less.
   It is recommended that you use Panasonic's HDMI cable.
- If you connect this unit to a 4K-compatible TV and perform "Easy Setting", 4K/60p will be automatically selected. (⇒ 17, 34)
- To view Ultra HD Blu-ray content in 4K/HDR format, connect to the HDMI terminal of a device that supports HDCP2.2, 4K/60p (4:4:4), and HDR signals that meet Ultra HD Blu-ray standards.

#### Enjoying video and audio with a 4K-compatible TV



#### **UB400**

#### Setting

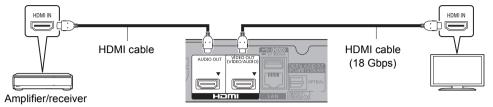
Set the following items in the setup menu (⇒ 29):

- Set "HDMI(VIDEO) Output Mode" to "Auto ( Video Only / Video+Audio )". (⇒ 29)
- Set "HDMI(AUDIO) Output Mode" to "Audio Only". (⇒ 29)

# Connecting to an amplifier/receiver

#### UB400 Enjoying video with a 4K-compatible TV and audio with an amplifier

You can enjoy richer sound by using the HDMI AUDIO OUT terminal. (Audio is output in high resolution.)



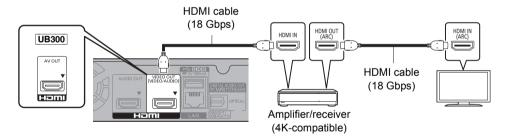
#### Setting

Set the following items in the setup menu (⇒ 29):

- Set "HDMI(VIDEO) Output Mode" to "Auto ( Video Only / Video+Audio )". (⇒ 29)
- Set "HDMI(AUDIO) Output Mode" to "Audio Only". (⇒ 29)
- To enjoy audio with a TV Set "HDMI(VIDEO) Output Mode" to "Video+Audio". (⇒ 29)

• The HDMI AUDIO OUT terminal is not compatible with 4K output and the VIERA Link (⇒ 25).

#### Enjoying video with a 4K-compatible TV and audio with a 4K-compatible amplifier



#### **UB400**

#### Settina

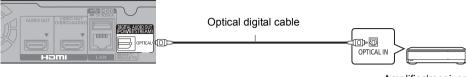
Set the following items in the setup menu (⇒ 29):

- Set "HDMI(VIDEO) Output Mode" to "Auto ( Video Only / Video+Audio )". (⇒ 29)
- Set "HDMI(AUDIO) Output Mode" to "Audio Only". (⇒ 29)

About ARC:

When using the TV or amplifier/receiver that does not have the indication of "(ARC)" (non-ARC-compatible) on the HDMI terminal, the amplifier/receiver and TV must also be connected using an optical digital cable or coaxial cable in order to enjoy the TV's sound through the amplifier/receiver.

#### UB400 Enjoying audio with an amplifier connected to the OPTICAL terminal



Amplifier/receiver

#### Setting

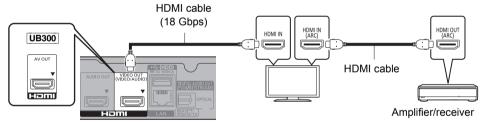
Set the following items in the setup menu (⇒ 29):

- Set "HDMI(VIDEO) Output Mode" to "Auto ( Video Only / Video+Audio )". (⇒ 29)
- Set "HDMI(AUDIO) Output Mode" to "Audio Only". (⇒ 29)
- To enjoy audio with an amplifier connected to the OPTICAL terminal.
   Set "Audio Output" to "Off" in "Advanced Settings". (⇒ 30)

#### Connecting an amplifier to a 4K-compatible TV

3D or 4K images can be played back when this unit is connected to a 3D or 4K compatible TV.

- This connection only supports up to 5.1ch.
- To connect a TV and amplifier with an HDMI cable, connecting terminals on both the TV and amplifier must be ARC-compatible. (⇒ 11, "About ARC")



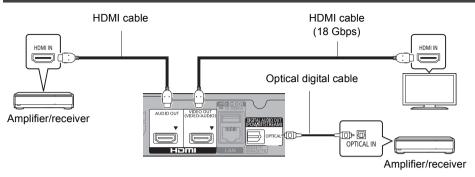
#### **UB400**

#### Setting

Set the following items in the setup menu (⇒ 29):

- Set "HDMI(VIDEO) Output Mode" to "Auto ( Video Only / Video+Audio )". (⇒ 29)
- Set "HDMI(AUDIO) Output Mode" to "Audio Only". (⇒ 29)

UB400 Enjoying video with a 4K-compatible TV in combination with an amplifier connected to the HDMI AUDIO OUT terminal and another amplifier connected to the OPTICAL terminal



#### Setting

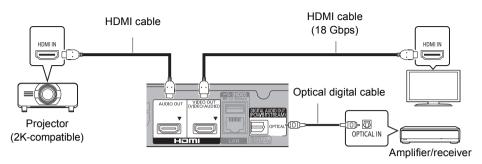
Set the following items in the setup menu (⇒ 29):

- Set "HDMI(VIDEO) Output Mode" to "Auto ( Video Only / Video+Audio )". (⇒ 29)
- Set "HDMI(AUDIO) Output Mode" to "Audio Only". (⇒ 29)
- To enjoy audio with an amplifier connected to the OPTICAL terminal.
   Set "Audio Output" to "Off" in "Advanced Settings". (⇒ 30)
- To enjoy audio with a TV Set "HDMI(VIDEO) Output Mode" to "Video+Audio". (⇒ 29)

 $\square$ 

It is not possible to simultaneously output audio from both the amplifier connected to the HDMI AUDIO OUT terminal and the
other amplifier connected to the OPTICAL terminal.

UB400 Enjoying video with a 4K-compatible TV in combination with a 2K-compatible projector and an amplifier that is connected to the OPTICAL terminal

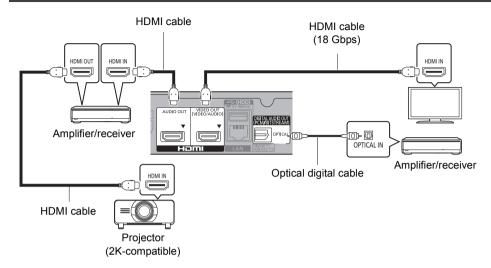


#### Setting

Set the following items in the setup menu (⇒ 29):

- Set "HDMI(VIDEO) Output Mode" to "Auto ( Video Only / Video+Audio )". (⇒ 29)
- Set "HDMI(AUDIO) Output Mode" to "Audio Only". (⇒ 29)
- To enjoy audio with an amplifier connected to the OPTICAL terminal.
   Set "Audio Output" to "Off" in "Advanced Settings". (⇒ 30)
- To enjoy audio with a TV Set "HDMI(VIDEO) Output Mode" to "Video+Audio". (⇒ 29) Set "Audio Output" to "On" in "Advanced Settings". (⇒ 30)
- To enjoy video with a projector Set "HDMI(AUDIO) Output Mode" to "Video+Audio". (⇒ 29) (It is not possible to output 3D, 4K or HDR content from the HDMI AUDIO OUT/HDMI VIDEO OUT terminal when "Video+Audio" is selected.)

UB400 Enjoying video with a 4K-compatible TV in combination with a 2K-compatible projector and an amplifier that is connected to the HDMI AUDIO OUT terminal and another amplifier that is connected to the OPTICAL terminal



#### Settina

Set the following items in the setup menu (⇒ 29):

- Set "HDMI(VIDEO) Output Mode" to "Auto ( Video Only / Video+Audio )". (⇒ 29)
- Set "HDMI(AUDIO) Output Mode" to "Audio Only". (⇒ 29)
- To enjoy audio with an amplifier connected to the OPTICAL terminal.
   Set "Audio Output" to "Off" in "Advanced Settings". (⇒ 30)
- To enjoy audio with a TV

Set "HDMI(VIDEO) Output Mode" to "Video+Audio". (⇒ 29)

• To enjoy video with a projector

Set "HDMI(AUDIO) Output Mode" to "Video+Audio". (⇒ 29)

(It is not possible to output 3D, 4K or HDR content from the HDMI AUDIO OUT/HDMI VIDEO OUT terminal when "Video+Audio" is selected.)

#### 

It is not possible to simultaneously output audio from both the amplifier connected to the HDMI AUDIO OUT terminal and the
other amplifier connected to the OPTICAL terminal.

# Connecting to the network

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

- Firmware can be updated (⇒ 18)
- You can enjoy BD-Live/Network Service (⇒ 21, 22)
- You can access other devices (Home Network) (⇒ 23)
- UB400 This unit supports Direct Access and can make a wireless connection to wireless devices without router. You can use this function when enjoying Home Network feature, etc. Internet access is not available while connected via Direct Access. (⇒ 24)

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

#### **UB400**

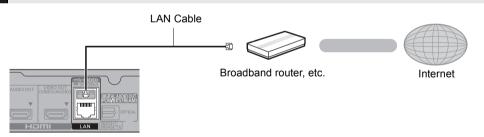
#### Wireless LAN connection

This unit has built-in wireless LAN and can be connected to a wireless router



- For additional information about this unit refer to http://www.panasonic.ca/english/support
- The unit is not compatible with public wireless LAN services.
- See page 3 for the precautions of wireless LAN connection.

# LAN cable connection



- Use category 5 or above straight LAN cables (STP) when connecting to peripheral devices.
- Inserting any cable other than a LAN cable in the LAN port can damage the unit.

# **Settings**

The following settings can be performed anytime in the Setup menu. (⇒ 32. 34)

# **Easy Setting**

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

#### Preparation

Turn on the TV and select the appropriate video input.

**1** Press [也].

Setup screen appears.

2 Follow the on-screen instructions to continue with the settings.

(e.g., "Quick Start")

 Certain recent models of Panasonic TVs (VIERA) may automatically apply their language setting to this unit.

# ■ When connected to a 4K/60p-compatible TV

When connected to a 4K/60p-compatible TV, you can set the video output format.



Follow the on-screen instructions to set the format.



 To reconnect this unit to a 4K/60p-compatible TV after connecting this unit to a 2K-compatible TV and completing "Easy Setting", set "4K60p Output" to "4K/60p(4:4:4)" or "4K/60p(4:2:0)". (⇒ 29)

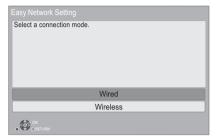
# Easy Network Setting

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

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

e.g., UB400

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



#### **UB400**

#### About the wireless connection

To obtain your network name (SSID\*1) and encryption key (password).

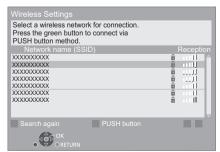
e.g.

The default settings may be printed on the router. If the SSID and password have been changed, consult the person responsible for setting up your network.

For more details, refer to the manual supplied with the wireless broadband router, or contact your Internet provider.

#### If your SSID is not displayed;

Search again by pressing the red button on the remote control.



Stealth SSIDs will not be displayed; in this case, enter manually in the following order.

- 1 To display the SSID input screen : Press [HOME]
  - ⇒ select "Setup" and press [OK]
  - ⇒ select "Player Settings" and press [OK]
  - ⇒ select "Network" and press [OK]
  - ⇒ select "Network Settings" and press [OK]
  - ⇒ select "Wireless Settings" and press [OK]
  - ⇒ select "Manual setting" and press [OK]
- 2 Enter your SSID.

# If the wireless router supports the PUSH button method\*2:

You can connect to and configure the security settings of your wireless LAN device with ease by pressing the Link button on the router.

#### If your wireless network is encrypted;

Enter your encryption key (password).

 You can switch between capital and lower case letters by pressing the "Shift" key.



#### M

- Refer to the owner's manuals of the hub or router.
- <u>UB400</u> Do not use this unit to connect to any wireless network for which you do not have usage rights. Using these networks may be regarded as illegal access.
- If you have trouble getting online on your PC after performing network settings on this unit, perform the network settings on your PC.
- UB400 Please be aware that connecting to a network without encryption may result in the leaking of data such as personal or secret information.
- 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.
- <sup>2</sup> The PUSH button method is a connection method which allows you to set encryption for a wireless LAN connection with ease

You can connect to a wireless LAN network by pressing a certain button on the wireless access point [Link button, WPS (Wi-Fi Protected Setup<sup>TM</sup>) button, etc.].

## Firmware updates

This unit is capable of checking the firmware automatically when connected to the Internet via a broadband connection.\*3

When a new firmware version is available, the following message is displayed.



Select "Yes" to start downloading the firmware. When the firmware update starts after the downloading is finished, a black screen is displayed and the POWER LED flashes rapidly.

You cannot operate the unit until the update is complete. Don't remove the AC power supply cord during the update. Removing the AC power supply cord while the update is in progress may damage the unit.

After the firmware is installed, unit will restart and the following screen will be displayed.



 You can also download the latest firmware from the following website and store it to a USB device to update the firmware.

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

The update is complete when the POWER LED stops rapid flashing and starts flashing in a repeating pattern of three flashes. Turn off and on the unit. (⇒ 39)

- To show the firmware version on this unit. (⇒ 34, "Firmware Version Information")
- Downloading will require several minutes. It may take longer or may not work properly depending on the connection environment.
- 3 You must agree to the terms of use for the Internet function and the privacy policy. (⇒ 33, "Notice")
- \*4 "X.XX" represents the firmware version number.

# **HOME** menu

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

#### Preparation

Turn on the TV and select the appropriate video input.

- 1 Press [也] to turn on the unit.
- 2 Press [OK] or [◀, ▶] to select the item.
  - Press [OK] or [▲, ▼] to select the item if necessary.



#### Videos/Music/Photos

	Play back the contents.
Disc	(⇒ right)
Disc	<ul> <li>When multiple contents</li> </ul>
	are recorded, select the
	types of contents or the
USB	title.
036	<ul> <li>See "Playable media"</li> </ul>
	(⇒ 6)

#### **Home Network**

Network Contents Playback	(⇒ 24)
UB400 Mirroring	(⇒ 23)
Media Renderer	(⇒ 24)

#### **Network Service**

Displays the Home screen of Network Service. (⇒ 22)

#### Setup

Player Settings	(⇒ 29)
Wallpaper	Changes the background of HOME menu.
BD-Video Data Erase	(⇒ 21)

#### To show the HOME menu

Press [HOME].

#### 

· Items to be displayed may vary with the media.

# **Playback**

1 Insert the media.

Playback starts depending on the media.

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

Repeat this step if necessary.

#### Ш

- DISCS CONTINUE TO ROTATE WHILE MENUS ARE DISPLAYED. Press STOP] when you have finished playback to protect the unit's motor, your TV screen and so on.
- When the following conditions are met, still pictures are played back in 4K regardless of the image quality.
  - The unit is connected to a 4K compatible TV
- "Resolution" is set to "Auto" or "4K" (⇒ 29)
   This unit can not output 4K images when playing back in
- 3D.
   It is not possible to play back AVCHD and MPEG2 videos which have been dragged and dropped or copied and pasted to the media.
- To enjoy BD-Video that supports Dolby Atmos<sup>®</sup> or DTS:X<sup>™</sup> (⇒ 31)

# Operations during playback

Some operations may not work depending on the media and contents.

#### Stop

#### Press [■STOP].

The stopping point is memorized.

#### Resume play function

Press [►PLAY] to restart from this point.

- The point is cleared if the media is removed.
- On BD-Video discs including BD-J, the resume play function does not work.

#### Pause

#### Press [IIPAUSE].

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

#### Search/Slow motion

#### Search

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

 Ultra HD Blu-ray, MKV, MP4 and MPEG2: Audio is not heard.

#### Slow motion

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

- BD-Video and AVCHD: [SEARCH▶▶] only.
- MKV, MP4 and MPEG2: Not effective.

The speed increases up to 5 steps.

- Music, MP3, etc.: The speed is fixed to a single
- Press [►PLAY] to revert to normal playback speed.

#### Skip

#### While playing or paused, press [◄◄] or [**>>**].

Skip to the title, chapter or track.

#### Frame-by-frame

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

- Each press shows the next frame.
- Press and hold to change in succession forward or backward.
- Press [►PLAY] to revert to normal playback speed.
- BD-Video and AVCHD: Forward only.
- MKV, MP4 and MPEG2: Not effective.

## Changing soundtrack

#### Press [AUDIO].

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

#### Show top menu/pop-up menu

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

# Select the item and press [OK].

# Adjust the screen brightness

While playing HDR video, press [HDR SETTING]. When HDR (High Dynamic Range) video is output to a connected HDR-compatible TV, a menu is displayed, allowing you to adjust the brightness of the entire screen. (⇒ 4) Press [◀, ▶] to adjust the setting.

Press [RETURN] to exit.

#### Show the status messages

#### While playing, press [PLAYBACK INFO.].

You can check the detailed video content\* playback status.

200003	Video attribute information of video content*.
П	Audio attribute information of video content*.
UB400 HDMI VIDEO	HDMI(VIDEO) output information.
HDMI AUDIO	HDMI(AUDIO) output information.
UB300 HDMI	HDMI output information.

Press [RETURN] to exit.

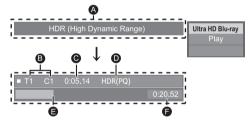
\* BD-Video, DVD-Video, MKV, MP4, MPEG2 (except Network Contents)

#### While playing, press [STATUS].

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

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

e.g., Ultra HD Blu-ray



- A Displayed when an HDR (High Dynamic Range) video signal is being output.
  - "HDR (High Dynamic Range: HLG to PQ Conversion)":

The format of the HDR video is converted from HLG to PQ

- "Dynamic Range Conversion Output": The video signal is converted to SDR (Standard Dynamic Range)
- T: Title, P: Program, C: Chapter, PL: Playlist
- Elapsed time in the title
- Method of HDR (High Dynamic Range) video
- Current position
- Total time

e.g., JPEG

### **Enjoying Ultra HD Blu-ray**

You can enjoy the playback of Ultra HD Blu-ray discs with this unit.

#### Preparation

 For 4K/HDR viewing, connect to a device and terminals that support HDCP2.2\*1, 4K/60p (4:4:4) and HDR signals that meet Ultra HD Blu-ray standards. (⇒ 10)

Due to copyright restrictions, it may not be possible to play back certain discs unless this unit is connected to the Internet.

#### 

- When connected to a device or terminal that does not support HDCP.2\*1, this unit applies Dynamic Range Conversion\*2 to HDR signals to output them in 2K resolution. In addition, depending on the disc, it may not be possible to perform playback correctly.
- When connected to a device or terminal that supports 4K/ 60p (4:2:0/8 bit) and lower, this unit plays back 60p content by applying Dynamic Range Conversion\*2 to its HDR signals to output them.
- When connected to a device or terminal that does not support 4K resolution, this unit applies Dynamic Range Conversion\*2 to HDR signals to output them in 2K resolution.
- When connected to a device or terminal that does not support HDR, this unit applies Dynamic Range Conversion\*2 to HDR signals to output them. In addition, depending on the disc, it may not be possible to output content in 2K resolution or perform playback correctly.
- \*1 HDCP is a technology designed to prevent illegal copying. "2.2" represents a version.
- <sup>2</sup> Dynamic Range Conversion is a function that converts HDR video signals into video signals suited to TVs that do not support HDR input.

### **Enjoying 3D video and photos**

#### Preparation

Connect this unit to a 3D compatible TV. (⇒ 10)

- $\bullet$  Perform the necessary preparations for the TV.
- Play back following the instructions displayed on the screen.
- 3D Settings (⇒ 28, 31)

- Please refrain from viewing 3D images if you do not feel
  well or are experiencing visual fatigue.
   In the event that you experience dizziness, nausea, or
  other discomfort while viewing 3D images, discontinue use
  and rest your eyes.
- 3D video might not output the way it is set in "Resolution" and "24p Output" (⇒ 29).
- When playing back 3D photos from "Photos" screen, select from the "3D" list. (Still pictures in "2D" are played back in 2D.)
- If "2D" and "3D" indications are not displayed, press the yellow button on the remote control to switch the view of playback contents.

# **Enjoying BD-Live**

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

For this BD-Live function, connection of a USB device is necessary along with Internet connection.

- Perform network connection and settings.
   (⇒ 16, 17)
- 2 Connect a USB device with 1 GB or more free space.
  - The USB device is used as the local storage.
- 3 Insert the disc.

## ■ Deleting data on the USB device

Select "BD-Video Data Erase" in the HOME menu (⇒ 19) and press [OK].



- The usable functions and the operating method may vary with each disc, please refer to the instructions on the disc and/or visit their website.
- "BD-Live Internet Access" may need to be changed for certain discs. (⇒ 33)

### Slideshow

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

- 1 Insert the media.
- 2 Select "View Photos".
- 3 Select an item and press the green button. The following items can be set.

Start Slideshow	Start the slideshow. You can display still pictures in the selected folder one by one at a constant interval.
Display Interval	Change the display interval.
Transition Effect	Select the effect when sliding pictures.
Repeat Play	Set whether to repeat the slideshow.
Soundtrack	Set whether to play background music.  FLAC and MP3, etc., on the USB device can be played back during the slideshow of JPEG on the USB device.
Soundtrack Folder	Select the folder from which the music files are played.
Shuffle BGM	Background music is played in random order.

#### 

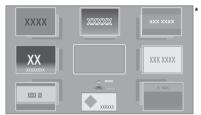
- Still pictures displayed as " cannot be displayed as thumbnail with this unit.
- You cannot play back AAC and ALAC as background music.

# Network Service (Enjoying NETFLIX, etc.)

Network Service allows you to access some specific websites supported by Panasonic, and enjoy Internet contents such as photos, videos, etc. from Network Service home screen.

 Some services, such as NETFLIX require a registered account.

For details of your NETFLIX account, refer to NETFLIX



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

#### Preparation

- Network connection (⇒ 16)
- Network setting (⇒ 17)
  - You must agree to the terms of use for the Internet function and the privacy policy. (⇒ 33, "Notice")
- 1 Press [INTERNET].
  - Netflix can be accessed directly by pressing [NETFLIX] button.
- 2 Select the item and press [OK].

To exit from Network Service Press [HOME].

#### 

- In the following cases, settings are possible using the Setup menu items.
  - When restricting the use of Network Service
     (⇒ 33, "Network Service Lock")
  - When the audio is distorted
  - (⇒ 33, "Audio Auto Gain Control")
  - When wrong time is displayed (⇒ 33, "Time Zone", "DST")
- When using a 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 as soon as a firmware update notice is displayed on the screen. If the firmware is not updated, you may not be able to use Network Service function properly. (⇒ 18)
- Network Service Home Screen is subject to change without notice.
- The services through Network Service 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.
- Some features of websites or content of the service may not be available.
- Some content may be inappropriate for viewers.
- Some content may only be available for specific countries and may be presented in specific languages.

## **Home Network feature**

Before using the following features, be sure to configure the connected equipment on your Home Network

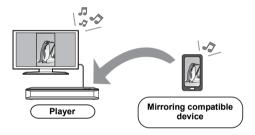
#### **UB400**

#### **Using Mirroring**

Mirroring is a function which displays a smartphone or tablet's screen on a TV via this unit.

Enjoy the content shown on a Miracast®-compatible smartphone or similar device on your large TV screen.

 A device that supports the Mirroring function and Android<sup>™</sup> ver. 4.2 or higher is required.
 For information on whether the smartphone, etc. supports Mirroring, contact the manufacturer of the device.



- 1 Press [HOME].
- 2 Select "Home Network" and press [OK].
- 3 Select "Mirroring" and press [OK].
- 4 Operate the Mirroring compatible device.
  - On the device, enable Mirroring and select this unit (DMP-UB400) as the device to be connected.

For details, refer to the instructions supplied with the device.

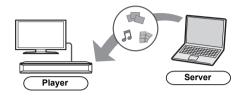
## To exit from Mirroring

Press [HOME].

### Playing back contents on the Network Contents server

You can share photos, videos and music stored in the Network Contents server\*1 [PC, smartphone, etc.] connected to your home network.

About support format of Network Contents
 (⇒ 41)



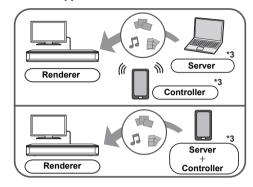
- 1 Press [HOME].
- 2 Select "Home Network" and press [OK].
- 3 Select "Network Contents Playback" and press [OK].
  - The list can be updated by pressing the green button on the remote control.
  - The selected equipment can be deleted from the list by pressing the red button on the remote control.
  - UB400 The connection method can be switched to Direct Access\*2 by pressing the yellow button on the remote control.
- 4 Select the equipment and press [OK].
- 5 Select the item to play and press [OK].
  - You may be able to use convenient functions depending on the content by pressing [OPTION].

To exit from Home Network Press [HOME].

# Using the Digital Media Controller

You can use a smartphone or tablet as the Digital Media Controller (DMC) to playback contents from Network Contents server\*1 on the Renderer (this unit).

#### Possible applications:



- 1 Press [HOME].
- 2 Select "Home Network" and press [OK].
- 3 Select "Media Renderer" and press [OK].
- 4 UB400 Select "Home Network" or "Direct Access"\*2 and press [OK], then follow the indications on the screen.
- 5 Operate the DMC compatible devices.

#### To exit from Media Renderer screen Press [HOME].



- <u>UB400</u> Direct Access\*2 connection while using Home Network feature is only temporary, and the network connection method returns to the original setting when exiting.
- Depending on the device or connection environment, the data transfer rate may decrease.
- Depending on the contents and the connected equipment, playback may not be possible.
- Items displayed in gray on the display cannot be played back by this unit.
- \*1 DLNA compatible server, etc.
- Direct Access is a function which allows you to wirelessly and directly connect wireless LAN-equipped devices to each other without a wireless router in between. You can connect devices such as those that support Wi-Fi Direct®.
- \*3 DMC compatible software should be installed.

# **VIERA Link**

#### What is VIERA Link?

VIERA Link is a convenient function which will link the operations of this unit and a Panasonic TV (VIERA) or other device under "VIERA Link".

You can use this function by connecting the equipment with an HDMI cable\*. See the owner's manuals for connected equipment for operational details.

 UB400 Only when connecting via an HDMI VIDEO OUT terminal on this unit.

### Automatic input switching Power on link

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

If this unit is on and the TV is off, the TV automatically turns on.

- When play starts on the unit
- When you display a menu, such as the HOME menu or Setup menu

#### Power off link

When you set the TV to standby mode, this unit is also automatically set to standby mode.

# Playing music continuously even after turning off the TV

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

- While playing music Press [OPTION].
- ② Select "TV Power".

# Easy control only with VIERA remote control

#### Only when TV supports "VIERA Link"

By using the TV remote control, you can perform various playback operations and settings. See the owner's manuals of the TV for more details.



- If you set "VIERA Link" to "Off", set to "On" (⇒ 34).
   (The default setting is "On".)
- The buttons and functions that you can use for this unit vary depending on the TV. For details, refer to the owner's manuals of the TV.
- The operation of this unit may be interrupted when you press certain buttons on the TV remote control.
- VIERA Link, based on the control functions provided by HDMI which is an industry standard known as HDMI CEC (Consumer Electronics Control), is a unique function that we have developed and added. As such, its operation with other manufacturers' equipment that supports HDMI CEC cannot be guaranteed.
- Please refer to individual manuals for other manufacturers' equipment supporting VIERA Link function.

# **Option menu**

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

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

# 1 Press [OPTION].

e.g., BD-Video



 When playing music, select "Playback Settings" and press [OK].

#### 2 Select an item and change the settings.

#### To exit the screen

Press [OPTION].

Regarding Language: (⇒ 42)

# **Operation Menu**

#### ■ Soundtrack (⇒ 20)

This setting is also able to switch by pressing [AUDIO].

#### ■ Audio channel

Select the audio channel number.

#### ■ Subtitle

#### ■ Subtitle Settings

Change the subtitle settings.

#### Angle

Select the number of the angle.

#### ■ Repeat Play

Select the item that you want to repeat.

- You can repeat the playback of a chapter, playlist, the entire disc, etc., but the items displayed will differ depending on the type of the media.
- Select "Off" to cancel.

#### ■ Shuffle

Select whether to play shuffle or not.

#### ■ Start Slideshow

Start the slideshow

#### ■ Status

Show the status messages.

#### ■ Rotate Right

#### ■ Rotate Left

Rotate the still picture.

#### Wallpaper

Set the still picture to the wallpaper of HOME menu. (⇒ 19)

#### ■ Video

The recording method of original video appears.

#### ■ Secondary Video

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

#### ■ Playback Information Window (⇒ 20)

This setting is also displayed by pressing [PLAYBACK INFO.].

#### ■ Control Panel

Display the Control Panel.

Playing back while using VIERA Link, etc.

e.g.,

Press [RETURN] to hide the Control Panel.

#### ■ Top Menu

Display Top Menu.

#### ■ Pop-up Menu

Display Pop-up Menu.

#### ■ Menu

Display Menu.

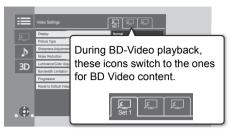
#### **UB400**

#### ■ Reception

The radio wave status during the playback of Network Contents is displayed. (Only when a wireless connection is used)

# Video Settings

These settings are also displayed by pressing [VIDEO SETTING].



Switch "Set 1", "Set 2" or "Standard" by using [◄, ▶].

- You can register desired settings to "Set 1" and "Set 2". Settings for BD Video playback and settings for the playback of other types of media are registered separately. (The default settings for "Set 1"/"Set 2" are the
- same as the settings for "Standard".)
- You cannot change the "Standard" settings.

#### ■ Display

Select a setting suitable for your screen.

#### ■ Picture Type

Select the picture quality mode during play.

#### ■ Sharpness Adjustment

Adjust the sharpness of images. The greater the value is, the sharper images will be.

#### ■ Noise Reduction

Reduce unnecessary noise in videos. The greater the value is, the less noise will appear.

#### ■ Luminance/Color Adjustment

Adjust the contrast, brightness, tone curve (white/black), color saturation and hue.

#### **■** Bandwidth Limitation

Adjust the bandwidth limitations.

# ■ Dynamic Range Adjustment (HDR Setting) Set the brightness of the entire screen when outputting HDR (High Dynamic Range) video to a connected HDR-compatible TV.

■ Dynamic Range Conversion Adjustment
When this unit is connected to a TV that does not
support HDR (High Dynamic Range) input, HDR
video is output converting to a SDR (Standard
Dynamic Range) video signal. If you set a smaller
value, their contrast will be reproduced more
faithfully, but the entire screen will appear darker.
To increase the brightness, set a larger value.

#### ■ 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".

#### ■ Reset to Default Video Settings

Return "Video Settings" of the selected tab ("Set 1" or "Set 2") to the factory preset.

# **Audio Settings**

#### ■ Sound Effects\*1, \*2

Select the sound effect.

Night Surround :

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

#### **UB400**

Remaster :

This feature gives you brighter sound by increasing the high frequency portion of the audio.

(Upsampling up to 192 kHz/32 bit is possible.) Recommended setting

Remaster 1	Pop and rock
Remaster 2	Jazz
Remaster 3	Classical

#### **UB400**

Digital Tube Sound :

This feature gives you a warm sound, like that produced by a vacuum tube amplifier. (Upsampling up to 192 kHz/32 bit is possible.) Recommended setting

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

#### **UB400**

#### ■ Sound Effect Frequency

Set the maximum sampling frequency for the audio selected in "Sound Effects".

- Even when "96/88.2kHz" is selected, an audio source with a sampling frequency of 96 kHz or higher will be output with the original sampling frequency.
- When "Sound Effects" is set to "Off", this setting is disabled.

#### **■ DSD Decode Sampling Frequency**

Select the settings that suit your sound quality preferences.

#### ■ DSD LPF Setting

Select the settings that suit your sound quality preferences.

#### ■ Dialog Enhancer\*2

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

#### **UB400**

#### **■** High Clarity Sound

Stop processing signals that affect the audio quality to make the audio quality clearer. (⇒ 31) Select whether or not to output images.

This setting is able to switch by pressing green button on the remote control during music playback.

 If "On (Video Off)" is selected, the setting will be canceled after you play back a video.

# 3D Settings

#### ■ Signal Format

Original	Keep original picture format.
	3D picture format comprising of left and right screens.

#### ■ Pop-Out Level

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

<sup>\*1</sup> Not every function can be set individually.

<sup>&</sup>lt;sup>2</sup> This function is effective for audio from HDMI OUT or DIGITAL AUDIO OUT only when "Digital Audio Output" is set to "PCM" (⇒ 30).

# Setup menu

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

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



4 Select an item and change the settings.

#### To exit the screen

Press [HOME].

### **HDMI**

#### ■ Resolution

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

 If "Auto" is selected, the best suited output resolution to the connected TV is automatically selected.

#### ■ 4K60p Output

This unit automatically chooses to output images in  $4K^{*1}$  60p when connected to a 4K/60p compatible TV.

- This item is available only when "Resolution" is set to "Auto" and "4K".
- UB400 This item is not available when "HDMI(AUDIO) Output Mode" is set to "Video+Audio".
- To connect to a TV that supports 4K/60p (4:4:4/8 bit) or 4K/60p (4:2:2/12 bit), select "4K/60p(4:4:4)".

Images will not be output correctly with an HDMI cable that does not support 18 Gbps.

 To connect to a TV that supports 4K/60p (4:2:0/ 8 bit), select "4K/60p(4:2:0)".

#### ■ 24p Output

Content recorded at 24p\*2, such as BD-Video films, is output at 24p when played back.

- When this unit is connected to TV compatible with 4K/24p and "Resolution" is set to "Auto" or "4K", images will be output in 4K/24p.
- When this unit is connected to a TV compatible with 1080/24p and "Resolution" is set to "Auto", "1080i" or "1080p", images will be output in 1080/24p.
- If images output in 24p are distorted, change the setting to "Off".

#### **UB400**

#### ■ HDMI(VIDEO) Output Mode

Set whether or not to output audio from the HDMI VIDEO OUT terminal.

 When an amplifier is connected to the HDMI AUDIO OUT terminal and this menu item is set to "Auto (Video Only / Video+Audio)", the TV may not output audio. In that case, select "Video+Audio"

#### **UB400**

#### **■ HDMI(AUDIO) Output Mode**

Set whether or not to output images from the HDMI AUDIO OUT terminal.

 It is not possible to output 3D, 4K or HDR content from the HDMI AUDIO OUT/HDMI VIDEO OUT terminal when "Video+Audio" is selected.

#### Advanced Settings

Press [OK] to show the following settings:

#### ➤ Color Mode

This setting is for selecting color-space conversion of the image signal.

#### ➤ Deep Color Output

Set the output method to be used when this unit is connected to a TV that supports Deep Color.

#### > HDR (High Dynamic Range) Output

Output images in HDR (High Dynamic Range) format depending on the content and connected device.

#### > HLG / PQ Conversion

Set whether or not to convert HDR (High Dynamic Range) videos in HLG format to PQ format before outputting them when this unit is connected to a TV that supports only HDR (PQ) format.

 When "HDR (High Dynamic Range) Output" is set to "Off", this setting is disabled.

#### ➤ 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.

#### UB400

#### > Audio Output

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

 To enjoy audio with the HDMI terminal, select "On". To enjoy audio with the OPTICAL terminal, select "Off". Audio will not be output from the HDMI terminal regardless of the settings for "HDMI(VIDEO) Output Mode" and "HDMI(AUDIO) Output Mode".

#### **UB400**

#### >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.
  - BD-Video playback

#### Video

#### Still Mode ( paused video )

Select the type of picture shown when you pause plavback.

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.

### **Audio**

#### ■ Dynamic Range Compression

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

(Dolby Digital, Dolby Digital Plus and Dolby TrueHD only)

 "Auto" is effective only when playing Dolby TrueHD.

#### ■ Digital Audio Output

Press [OK] to show the following settings:

# Dolby D/Dolby D +/Dolby TrueHD

> DTS/DTS-HD

Select the audio signal to output.

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

A high resolution image/display technology of approximately 4000 (width) × 2000 (height) pixels.

<sup>\*2</sup> 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.

#### > BD-Video Secondary Audio

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

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

#### To enjoy BD-Video that supports Dolby Atmos<sup>®</sup> or DTS:X™

Connect this unit to an AV amplifier or similar device that supports it with an HDMI cable, and select the following settings:

- Dolby D/Dolby D +/Dolby TrueHD: "Bitstream"
- DTS/DTS-HD: "Bitstream"
- BD-Video Secondary Audio: "Off"

Dolby Atmos is a trademark of Dolby Laboratories.

#### **UB400**

#### **■ OPTICAL Down Sampling**

Select whether or not to convert the sampling frequency of the audio to be output from the OPTICAL terminal.

If you choose to convert the sampling frequency, you can limit the maximum output to 48 kHz or 96 kHz.

- Set a frequency supported by the connected device.
- When playing back BD-Video, 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
- The downmix effect is not available when "Digital Audio Output" is set to "Bitstream".
- The audio will be output in "Stereo" in the following cases:
  - AVCHD playback
  - Playback of secondary audio (including the button click sound).

#### UB400

#### ■ HDMI Output Settings of Music Playback

Minimize the audio noise during music playback by automatically switching the video output to 1080i.

#### **UB400**

#### ■ Settings for High Clarity Sound

Set a terminal that will stop processing audio signals when "High Clarity Sound" (⇒ 28) is set to "On (Video Off)" or "On (Video On)".

 Set an option for video playback and audio playback.

#### ■ Audio Delav

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

# 3D

#### ■ 3D BD-Video Playback

Select the playback method of 3D compatible video software.

#### ■ 3D AVCHD Output

Select the output method of 3D AVCHD videos.

#### ■ 3D Playback Precautions

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

#### Language

#### ■ Audio Language

Choose the language for audio.

- If "Original" is selected, the original language of each disc will be selected.
- When the selected language is not recorded on the disc, or depending on how the navigation is created on the disc, it may playback in a different language than the selected language.
- Enter a code (⇒ 42) when you select "Other \*\*\*\*"

#### ■ Subtitle Language

Choose the language for the subtitle.

- When "Auto" is selected, a subtitle for the language selected in the "Audio Language" is displayed only when the language other than the language selected in the "Audio Language" is played back.
- When the selected language is not recorded on the disc, or depending on how the navigation is created on the disc, it may playback in a different language than the selected language.
- Enter a code (⇒ 42) when you select "Other \*\*\*\*"

#### ■ Menu Language

Choose the language for the disc menus.

 Enter a code (⇒ 42) when you select "Other \*\*\*\*"

#### ■ Subtitle Text

Select a desired item according to the language used for MKV subtitles text.

 This item is displayed only after playing back a file.

#### ■ On-screen Language

Choose the language for menus and on-screen messages.

#### **Network**

#### ■ Easy Network Setting (⇒ 17)

#### ■ Network Settings

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

#### **UB400**

#### > LAN Connection Mode

Select the LAN connection method.

 When not using wireless LAN (when turning it off), select "Wired".

#### **UB400**

#### > Wireless Settings

This allows the wireless router and connection settings to be set up. Current connection settings and connection state can be checked. The wireless router connection wizard will be displayed.

Select a connection method to wireless access point.

#### Search for wireless network (⇒ 17) PUSH button method (⇒ 18) PIN code method

This method allows you to set encryption for a wireless LAN connection with ease.

You can connect to a wireless LAN network by entering a PIN code generated by this unit into the wireless access point you want to connect to.

#### Manual setting

If a search using "Search for wireless network" does not find the wireless access point you want to connect to, or if you cannot connect to a wireless LAN network with other methods, enter an SSID manually to establish a wireless LAN connection.

#### > 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.

#### > 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.

#### ➤ Network Service Settings (⇒ 22)

Press [OK] to show the following settings:

#### **Audio Auto Gain Control**

Volume that is different depending on the contents is adjusted automatically to the standard volume while using the Network Service

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

#### Time Zone

Set the unit's time to match your location.

 Some Network Service contents require the time zone to be set. Set time zone if necessary.

#### **DST**

Select "On" when using Daylight Saving time.

#### Notice

Displays the terms of service for the cloud services

#### Network Drive Connection

This unit can access a hard disk shared folder on a network and play back videos, still pictures, and music.

#### ➤ Remote Device Settings (⇒ 24)

Press [OK] to show the following settings:

#### **Setting Unit Name**

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

#### **Registration Type**

Auto	Allow connections to all the equipment accessing this unit.
Manual	Set the permission for individual equipment connections accessing this unit.

#### Remote Device List

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

• You can register up to 16 devices.

#### **Networked Standby**

Even when "Quick Start" is set to "Off", by using a remote device (smartphone or tablet), you can wake the unit from the off state and start certain Internet content services.

- To activate operation from the remote device, select "On". But power consumption in standby mode will increase. (⇒ 40)
- Only the devices permitted by the "Remote Device List" can be operated.

#### > BD-Live Internet Access (⇒ 21)

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

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

### **Ratings**

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

#### ■ DVD-Video Ratings

Set a ratings level to limit DVD-Video play.

#### ■ BD-Video Ratings

Set an age limit of BD-Video (including Ultra HD Blu-ray) play.

#### ■ Network Service Lock

You can restrict the usage of Network Service.

## System

#### ■ Easy Setting

You can execute basic settings.

#### ■ Display Settings

Press [OK] to show the following settings:

#### ➤ Screen Saver Function

This is to prevent image retention on the screen.

- When this is set to "On":
  - If a list of playback content is displayed and there is no operation for 5 minutes or more, the screen switches to HOME menu automatically.
- While playing and pausing, etc., this function is not available.

#### > Status Messages

Choose whether to show status messages automatically.

#### > VIERA Link

Set to use "VIERA Link" function when connected via HDMI cable to a device that supports "VIERA Link".

 Select "Off" when you do not want to use "VIERA Link".

#### ■ Quick Start

Speed of start-up from standby mode is increased.

 When set to "On", the internal control unit will be powered. The idle power consumption will increase so compared to when set to "Off".

#### ■ Remote Control Code

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

#### ■ Firmware Update (⇒ 18)

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 if a firmware update is available.

#### ■ System Information

Press [OK] to show the following settings:

#### ➤ License

Information about the software used by this unit is displayed.

#### > Firmware Version Information

Display firmware version of this unit **UB400** and wireless LAN module.

#### ■ Restore Default Settings

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

# Troubleshooting guide

# Before requesting service, please perform the following checks.

# Do you have the latest firmware installed? Panasonic is constantly improving the unit's

Panasonic is constantly improving the unit's firmware to ensure that our customers are enjoying the latest technology. (⇒ 18)

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

www.panasonic.ca/english/support

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

#### Other support information:

"Limited Warranty" (\$\Rightarrow\$ 45)

# The following do not indicate a problem with this unit:

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

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

Press and hold  $[\circlearrowleft/I]$  on the main unit for 3 seconds.

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

#### ■ Cannot eject disc.

1) While the unit is on

Press and hold [OK], the yellow button and the blue button on the remote control at the same time for more than 5 seconds.

- POWER LED starts to flash, and "00 RET" is displayed on the screen.
- ② Press [▶] (right) repeatedly on the remote control until "06 FTO" is displayed on the screen.
- ③ Press [OK].

## **General operation**

#### To return to the factory default.

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

#### To return all settings to the factory preset.

- Reset the unit as follows:
- While the unit is on.
  - Press and hold [OK], the yellow button and the blue button on the remote control at the same time for more than 5 seconds.
  - POWER LED starts to flash, and "00 RET" is displayed on the screen.
- ② Press [▶] (right) repeatedly on the remote control until "08 FIN" is displayed on the screen.
- ③ Press and hold [OK] for more than 5 seconds.

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

This is a normal phenomenon when using VIERA Link. For details please read the owner's manuals for the TV.

#### The remote control doesn't work properly.

- Change the batteries in the remote control.(⇒ 5)
- The remote control and this unit are using different codes.

Turn on this unit by using [₺/l] on the main unit, and check "Remote Control □", which is displayed on the screen when you press a button on the remote control.

Press and hold [OK] and the displayed number ("\( \bigcup \)") for more than 5 seconds.

#### This unit is turned off automatically.

To save on electricity, this unit is turned off automatically depending on the media if there is no button operation for about 20 minutes when not playing back (such as when paused or displaying the menu, displaying still pictures, etc.).

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

- > The ratings level returns to the factory defaults.
- While the unit is on.
  - Press and hold [OK], the yellow button and the blue button on the remote control at the same time for more than 5 seconds.
  - POWER LED starts to flash, and "00 RET" is displayed on the screen.
- ② Press [▶] (right) repeatedly on the remote control until "03 VL" is displayed on the screen.
- ③ Press [OK].

#### The TV screen turns black.

- In the following cases, HDMI authentication takes place and a black screen is displayed:
  - When "24p Output" is set to "Auto".
  - When the display is switched between 2D and 3D images.
  - When you quit the 4K playback by displaying another screen, including the HOME menu.
  - <u>UB400</u> When "HDMI Output Settings of Music Playback" is set to "Sound Quality Priority".

# This unit does not recognize the USB connection correctly.

- Disconnect and re-connect the USB cable. If it still does not recognize the connection, turn this unit off and on again.
- USB devices may not be recognized by this unit when connected using the following:
  - a USB hub
  - a USB extension cable
- If you connect USB HDD to this unit, use the USB cable that is supplied with the HDD.
- If the USB HDD is not recognized, the power to the USB HDD may not be supplied. Supply power from an external source.
- If you connect a second USB device while a screen other than the Home screen is displayed, it will not be detected. Display the Home screen and reconnect the USB device you want to use.

#### **Picture**

# Images from this unit do not appear on the TV screen, or they are distorted.

- An incorrect resolution is selected in "Resolution". Reset the setting as follows:
- > The connected devices are changed. Reset the setting as follows:
- While the unit is on
   Press and hold [OK], the yellow button and
   the blue button on the remote control at the
   same time for more than 5 seconds.
  - POWER LED starts to flash.
- ② Press [8] and the blue button on the remote control at the same time for more than 5 seconds.
  - When Dolby Digital Plus, Dolby TrueHD, and DTS-HD® audio are not output properly, select "Yes" in "Restore Default Settings"
     (⇒ 34) and make proper settings.
  - "4K60p Output" will be set to "Off". Make the correct setting again. (⇒ 29)
- When "3D BD-Video Playback" in the Setup menu is set to "Auto", images may not be output depending on the connection method. After removing the disc from this unit, select "Set before play" in the Setup menu, and select "2D Playback" in the setup screen displayed when playing 3D discs. (⇒ 31)
- When outputting in 4K, images may be distorted depending on the HDMI cable. Use an HDMI cable that supports 18 Gbps.

#### **UB400**

#### Video is not output.

- ➤ Video is not output when the "High Clarity Sound" is set to "On (Video Off)". (⇒ 28)
- ➤ Video from the HDMI AUDIO OUT terminal is not output when the "HDMI(AUDIO) Output Mode" is set to "Audio Only". (⇒ 29)

#### Video is not output in 4K or high-definition.

- Confirm that "Resolution" in the Setup menu is set properly. (⇒ 29)
- ➤ Confirm the HDMI cable, related connections and the compatibility of TV video input. To output images in 4K, connect the HDMI cable to a 4K compatible terminal of the connected device. (⇒ 10)
- ➤ UB400 Set "HDMI(AUDIO) Output Mode" to "Audio Only". (⇒ 29)
- To enjoy image in 4K/60p, set "4K60p Output" to "4K/60p(4:4:4)" or "4K/60p(4:2:0)". (⇒ 29)
- If "4K60p Output" is set to "4K/60p(4:4:4)", check to see if the connected HDMI cable supports 18 Gbps. (⇒ 10, 29)
- If 4K images are not output from the connected 4K-compatible TV, set "4K60p Output" to "4K/60p(4:4:4)" or "4K/60p(4:2:0)". (⇒ 29)

# Cannot output video in HDR quality even when connected to an HDR-compatible TV.

- When connected to a device or terminal that does not support HDR, this unit applies Dynamic Range Conversion to HDR signals to output them. In addition, depending on the disc, it may not be possible to output content in 2K resolution or perform playback correctly. (⇒ 21)
- ➤ Video may not be output from your TV in HDR quality, depending on the content. Set "HDR (High Dynamic Range) Output" and "HLG / PQ Conversion" to "Auto". (⇒ 30)

#### 3D video is not output.

- Connect to a 3D compatible device (e.g., TV and amplifier/receiver).
- ➤ When a non-3D compatible amplifier/receiver is connected between this unit and a TV, 3D video is not output. (⇒ 12)
- ➤ UB400 If there is a non-3D compatible amplifier/receiver connected to the HDMI AUDIO OUT terminal, set the "HDMI(AUDIO) Output Mode" to "Audio Only". (⇒ 29)
- Confirm the settings on this unit and the TV for 3D. (⇒ 21)

#### 3D video is not output correctly as 2D.

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

#### No subtitles.

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

# The subtitles overlap closed captions recorded on discs.

➤ Turn off the subtitles or the closed caption setting on the TV. (⇒ 26)

# Cannot play back videos on the USB device smoothly.

Use the port on the rear side of this unit, which supports USB 3.0.

# A black band is displayed around the edge of the screen.

#### The aspect ratio of the screen is abnormal.

Adjust the aspect setting on the TV.

#### There is a lot of image lag when playing video.

- Set "0" all items in the "Noise Reduction".
  (⇒ 27)
- ➤ Set "Audio Delay". (⇒ 31)

# Audio

#### Cannot hear the desired audio.

- ➤ Check the connections and the "Digital Audio Output" settings. (⇒ 11, 30)
- ➤ UB400 To output audio from a device connected with an HDMI cable, set "Audio Output" to "On" in the Setup menu. (⇒ 30)
- ➤ UB400 When connecting this unit to a TV via an HDMI VIDEO OUT and to an amplifier/ receiver via an HDMI AUDIO OUT, set "HDMI(VIDEO) Output Mode" to "Auto ( Video Only / Video+Audio )". (⇒ 11, 29)

#### There is no sound coming out.

- ➤ <u>UB400</u> To output audio using OPTICAL terminal, set "OPTICAL Down Sampling" properly. (⇒ 31)
- ➢ Refer to "Connecting to an amplifier/receiver" (⇒ 11 - 15) to check the audio output settings suited to the connections of your device. UB400 In the following cases, audio is not output from the terminals listed below:

#### HDMI VIDEO OUT terminal

- When a device is connected to the HDMI AUDIO OUT terminal and "HDMI(VIDEO) Output Mode" is set to "Auto ( Video Only / Video+Audio )" (⇒ 29)
- When "Audio Output" in "Advanced Settings" is set to "Off" (⇒ 30)
- While playback is being performed with "Audio Output" in "Settings for High Clarity Sound" set to "OPTICAL Only" (⇒ 31)

#### HDMI AUDIO OUT terminal

- When "Audio Output" in "Advanced Settings" is set to "Off" (⇒ 30)
- While playback is being performed with "Audio Output" in "Settings for High Clarity Sound" set to "OPTICAL Only" (⇒ 31)

#### ●OPTICAL terminal

- When a device is connected to the HDMI AUDIO OUT terminal and "Audio Output" in "Advanced Settings" is set to "On" (⇒ 30)
- While playback is being performed with "Audio Output" in "Settings for High Clarity Sound" set to "HDMI Only" (⇒ 31)

## **Playback**

#### Disc cannot be played.

- ➤ The disc is dirty. (⇒ 5)
- ➤ The disc is not finalized. (⇒ 7)
- Depending on the Ultra HD Blu-ray disc, it may not be possible to perform playback unless this unit is connected to the Internet.

# Still pictures (JPEG) do not play back normally.

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

#### I can't play back BD-Live.

- ➤ Confirm that this unit is connected to the broadband Internet. (\$\Rightarrow\$ 16)
- Confirm the "BD-Live Internet Access" settings. (⇒ 33)
- ➤ Confirm a USB device is connected to the USB port. (⇒ 9)

### Network

#### I can't connect to the network.

- Confirm the network connection and settings. (⇒ 16, 17, 32)
- ➤ UB400 There may be interference that prevents the unit from detecting your home network. Place the unit and the wireless router closer to each other. This unit may be able to detect your network name (⇒ 18, "SSID").
- Check the owner's manuals for each device and connect accordingly.

#### **UB400**

# When using wireless LAN connection, video from the Network Contents server\* is not played back or video frames are dropped during playback.

- Higher transfer rate router such as 802.11n (2.4 GHz or 5 GHz) wireless router may solve the problem. If you use 802.11n (2.4 GHz or 5 GHz) wireless router, it is necessary to set the encryption type to "AES".
  - Simultaneous use with a microwave, cordless telephone etc. at 2.4 GHz may result in connection interruptions or other problems.
- ➤ On the "Wireless Settings" screen (⇒ 32), the continuous lighting of at least 4 "Reception" indicators is the target for a stable connection. If 3 or fewer indicators are lit or the connection is being interrupted, change the position or angle of your wireless router and see if the connection state improves. If there is no improvement, connect to a wired network and perform the "Easy Network Setting" (⇒ 17) again.
- \* DLNA compatible server, etc.

# Messages on the screen

#### Cannot read. Please check the disc.

You inserted an incompatible disc.

#### Cannot play this file.

You tried to play a non-compatible video.

#### No disc inserted.

- > The disc may be upside down.
- Some operations are unsupported by the unit. (For example, reverse slow motion, etc.)

#### 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.)

#### UB400

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

 Set a stronger network security level referring to the wireless router owner's manuals

### POWER LED

When the POWER LED is flashing other than during power up or down of this unit, check the message on the TV screen. If a message is not displayed on the TV screen, determine the type of the error by checking the way the POWER LED is flashing.

Symbols indicate the following states:

- No illumination
- · · · Repetition

#### ++--++--++ (Flashes 6 times)

The remote control and this unit are using different codes.

Turn on this unit by using  $[\mathcal{O}/l]$  on the main unit, and check "Remote Control  $\square$ " which is displayed on the screen when you press a button on the remote control.

Press and hold [OK] and the displayed number ("\( \sigma \)") for at least 5 seconds.

#### 

> The unit fails to operate properly. Press [\(\mathcal{O}\)/l] on the main unit for 3 seconds to switch the unit to standby, then switch back on.

# **+++++** ·····

#### (Flashes)

- > The copyright protected disc cannot be played back.
  - One of the devices connected to this unit (TV, amplifier, etc.) does not support copyright protection.
- Temperature of this unit is hot and the unit switches to standby for safety reasons. Wait for about 30 minutes.
- Install or place this unit with good ventilation.
- A firmware update is in progress.

### +++-++------

#### (Flashes 3 times)

- The disc in use cannot be played back since the copyright information is invalid.
- A firmware update using a USB device is complete.

# **Specifications**

# General

Signal system	NTSC
Operating	+5 °C to +35 °C
temperature range	(+41 °F to +95 °F)
Operating humidity range	10 % to 80 % RH (no condensation)
DIGITAL AUDIO OUT (OPTICAL)	1 pc. Output format : PCM, Dolby Digital, DTS®
HDMI OUT (19 pin type A)	UB400 2 pcs. [UB300] 1 pc. Output Audio format : PCM, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS®, DTS-HD High Resolution Audio™, DTS-HD Master Audio™
USB port (Type A)	Front: 1 pc., DC 5 V, Max. 500 mA [High-Speed USB (USB 2.0)] Rear: 1 pc., DC 5 V, Max. 900 mA [Super-Speed USB (USB 3.0)]
LAN (Ethernet) Port	1 pc. 10BASE-T/100BASE-TX
UB400 Wireless LAN	Standard Compliance: IEEE802.11 a/b/g/n
	Frequency Range: 2.4 GHz/5 GHz band
	Security: Encryption type: TKIP/AES, Authentication type: PSK, WEP (64 bit/128 bit)
LASER Specification	Encryption type: TKIP/AES, Authentication type: PSK, WEP
LASER Specification  Power supply	Encryption type: TKIP/AES, Authentication type: PSK, WEP (64 bit/128 bit)  Class I LASER Product  Wave length: 777-800 nm (CDs)/ 650-665 nm (DVDs)/400-410 nm (BDs) Laser power: No hazardous radiation is
·	Encryption type: TKIP/AES, Authentication type: PSK, WEP (64 bit/128 bit)  Class I LASER Product  Wave length: 777-800 nm (CDs)/ 650-665 nm (DVDs)/400-410 nm (BDs) Laser power: No hazardous radiation is emitted with the safety protection
Power supply	Encryption type: TKIP/AES, Authentication type: PSK, WEP (64 bit/128 bit)  Class I LASER Product Wave length: 777-800 nm (CDs)/ 650-665 nm (DVDs)/400-410 nm (BDs) Laser power: No hazardous radiation is emitted with the safety protection  AC 120 V, 60 Hz  UB400  Approx. 26 W UB300
Power consumption  Power consumption in	Encryption type: TKIP/AES, Authentication type: PSK, WEP (64 bit/128 bit)  Class I LASER Product Wave length: 777-800 nm (CDs)/ 650-665 nm (DVDs)/400-410 nm (BDs) Laser power: No hazardous radiation is emitted with the safety protection  AC 120 V, 60 Hz  UB400 Approx. 26 W UB300 Approx. 25 W  Approx. 7 W
Power supply  Power consumption  Power consumption in quick start standby mode  Power consumption in standby mode  Dimensions (W×H×D) Including the projecting parts	Encryption type: TKIP/AES, Authentication type: PSK, WEP (64 bit/128 bit)  Class I LASER Product Wave length: 777-800 nm (CDs)/ 650-665 nm (DVDs)/400-410 nm (BDs) Laser power: No hazardous radiation is emitted with the safety protection  AC 120 V, 60 Hz  LB400  Approx. 26 W  LB300  Approx. 25 W  Approx. 7 W  (Quick Start: On)  Approx. 0.2 W  (Quick Start: Off, Networked Standby: Off)  LB400  320 mm×45 mm×199 mm  (Approx. 12 5/8"×1 13/16"×7 7/8")  LB300  320 mm×45 mm×193 mm  (Approx. 12 5/8"×1 13/16"×7 5/8")
Power supply  Power consumption  Power consumption in quick start standby mode  Power consumption in standby mode  Dimensions (WxHxD) Including the	Encryption type: TKIP/AES, Authentication type: PSK, WEP (64 bit/128 bit)  Class I LASER Product Wave length: 777-800 nm (CDs)/ 650-665 nm (DVDs)/400-410 nm (BDs) Laser power: No hazardous radiation is emitted with the safety protection  AC 120 V, 60 Hz  LB400  Approx. 26 W  LB300  Approx. 25 W  Approx. 7 W (Quick Start: On)  Approx. 0.2 W (Quick Start: Off, Networked Standby: Off)  LB400  320 mm×45 mm×199 mm (Approx. 12 5/8"×1 13/16"×7 7/8")  LB300  320 mm×45 mm×193 mm

# File format

File format	Extension	Reference
MKV (Compression methods Video: H.264/HEVC Audio: AAC, PCM, Vorbis, FLAC)	".MKV", ".mkv"  Subtitles text file ".SRT", ".srt", ".SSA", ".ssa", ".ASS", ".ass"	Resolution up to 3840x2160 30p, 4096x2160 24p. The video file and subtitles text file are inside the same folder, and the file names are the same except for the file extensions. Some MKV files may not be played back correctly, depending on the video resolution, frame rate condition, subtitle format and so on. MOTION JPEG is not supported.
mp4 (Compression methods Video: H.264/HEVC Audio: AAC)	".MP4", ".mp4", ".MOV", ".mov"	<ul> <li>Resolution up to 3840×2160 30p, 4096×2160 24p. (except MPEG2)</li> <li>Some mp4/MPEG files</li> </ul>
MPEG (TS/PS) (Compression methods Video: MPEG2 /H.264**/HEVC**1 Audio: AAC**1 /Jobly Digital /LPCM**2)	".MPG", ".mpg", ".MPEG", ".mpeg", ".M2TS", ".m2ts", ".MTS", ".mts", ".TS", ".ts"	may not be played back correctly, depending on the video resolution, frame rate condition and so on.  MOTION JPEG is not supported.  Depending on the audio compression method, only images may be played back and it may not be possible to output audio.
JPEG	".JPG", ".jpg"	MOTION JPEG and Progressive JPEG are not supported.     You may not be able to play back the file if you have edited the folder structure or the file name on a PC or other device.
МРО	".MPO", ".mpo"	3D still picture
МР3	".MP3", ".mp3"	This unit supports ID3 tags, but only titles, artist names and album names can be displayed.
FLAC	".FLAC", ".flac"	This unit supports tags, but only titles, artist names and album names can be displayed. Maximum sampling rate: 192 kHz/ 24 bit
WAV	".WAV", ".wav"	Maximum sampling rate: 192 kHz/32 bit
AAC	".M4A", ".m4a"	Maximum sampling rate: 48 kHz/320 kbps

<sup>•</sup> Specifications are subject to change without notice.

File format	Extension	Reference
WMA	".WMA", ".wma"	This unit supports tags, but only titles, artist names and album names can be displayed. Maximum sampling rate: 48 kHz/385 kbps
DSD (DFF, DSF)	".DSF", ".dsf", ".DFF", ".dff"	2.8 MHz (2 ch/5.1 ch), 5.6 MHz (2 ch only)
ALAC	".M4A", ".m4a"	96 kHz/32 bit (Max.7.1 ch), 176.4/192 kHz/32 bit (Max.5.1 ch)

<sup>\*1</sup> TS only

- With certain recording states and folder structures, the play order may differ or playback may not be possible.
- A combined total of up to 10,000 files and folders can be displayed as playable data in each folder regardless of their format.

(Even when the picture playback menu is displayed, for example, if a folder in the menu contains playable videos and music files, they are also counted as playable data.)

### **Audio information**

The audio output differs depending on the settings on the unit [UB400] and which terminals are connected to the amplifier/receiver. (⇒ 30, "Digital Audio Output")

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

#### HDMI OUT/

#### **UB400 DIGITAL AUDIO OUT (OPTICAL)**

	Terminal	"Digital Audio Output"		
	reminai	"Bitstream"	"PCM"*1	
Output	HDMI OUT	Outputs using original audio*2	BD-Video: 7.1ch PCM*2*3 DVD-Video: 5.1ch PCM	
channel	DIGITAL AUDIO OUT (OPTICAL)	Dolby Digital/ DTS Digital Surround™	Down-mixed 2ch PCM	

<sup>\*1</sup> UB300 The maximum possible number of Dolby sound is 2ch PCM.

# Supported format for Network Contents Playback

When this unit works as a Network Contents client, following contents are playable.

- File formats that are not supported by your Network Contents server\* cannot be played.
- \* DLNA compatible server, etc.

#### Video

Container	Video codec	Audio codec	Example of file extension
MKV	H.264 HEVC	AAC PCM Vorbis FLAC	.mkv
AVCHD	H.264	Dolby Digital	.mts
MP4	H.264 HEVC	AAC	.mp4, .mov
PS	MPEG2	Dolby Digital Linear PCM	.mpg, .mpeg
TS	MPEG2 H.264 HEVC	AAC Dolby Digital	.m2ts, .ts

#### Photo

Format	Example of file extension
JPEG	.jpg

#### Audio

Audio codec	Example of file extension
MP3	.mp3
FLAC	.flac
WAV	.wav
AAC	.m4a, .adts
WMA	.wma
ALAC	.m4a
DSD	.dsf, .dff
Linear PCM	_

 Depending on the server, the contents other than stated above can be played back.

<sup>\*2</sup> PS only

When "BD-Video Secondary Audio" is set to "On", the audio will be output as Dolby Digital, DTS Digital Surround™ or 5.1ch PCM. However, when playing BD-Video without secondary audio or navigation sounds, the audio is output as the original format.

<sup>\*3</sup> The audio output is amplified from 5.1ch or 6.1ch to 7.1ch depending on the DTS, Inc. specifications.

# Language code list

Language	Code	Language	Code	Language	Code
Abkhazian:	6566	Gujarati:	7185	Rhaeto-Roma	nce:
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	la:	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

# Display languages list

Language	Display	Language	Display	Language
English	JPN	Japanese	ARA	Arabic
French	CHI	Chinese	HIN	Hindi
German	KOR	Korean	PER	Persian
Italian	MAL	Malay	IND	Indonesian
Spanish	VIE	Vietnamese	MRI	Maori
Dutch	THA	Thai	BUL	Bulgarian
Swedish	POL	Polish	RUM	Romanian
Norwegian	CES	Czech	GRE	Greek
Danish	SLK	Slovak	TUR	Turkish
Portuguese	HUN	Hungarian	*	Others
Russian	FIN	Finnish		
	English French German Italian Spanish Dutch Swedish Norwegian Danish Portuguese	English JPN French CHI German MAL Spanish UIE Dutch THA Swedish POL Norwegian Danish SLK Portuguese HUN Russian FIN	English JPN Japanese French CHI Chinese German Italian Spanish VIE Vietnamese Dutch Swedish Norwegian Danish Portuguese HUN Hungarian	English

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The software licenses are displayed when "License" in the Setup menu is selected. (⇒ 34)







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#### Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario L4W 2T3

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For product operation, repairs and information assistance, please visit our Support page on: www.panasonic.ca/english/support

#### IF YOU SHIP THE PRODUCT TO A SERVICENTRE

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

	. 030
The model number and serial number of this product can be found on either the back or the bottom of the unit. Please note them in the space provided below and keep for future reference.	DAT DEA
MODEL NUMBER	TEL
SERIAL NUMBER	

User memo:	
DATE OF PURCHASE	
DEALER NAME	
DEALER ADDRESS	
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DO NOT STARE INTO BEAM. FDA 21CFRICLA	SS II (IIa)
CAUTION - CLASS 2 VISIBLE AND INVISIBLE LASER RADIATION WHEN	
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EN CAS D'OUVERTURE, NE PAS REGARDER DANS LE FAIS	
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LASERSĀTEILYĀ, ĀLĀ TUIJOTA SĀTEESEEN.	
VARNING – ĶLASS 2 SYNLIG OCH OSYNLIG LASERSTRÄLNING NÄR DENNA	DEL ÄR
ÖPPNAD, STIRRA EJ IN I STRÅLEN.	
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WENN ABDECKUNG GEOFFNET, NICHT IN DEN STRAHL B	LICKEN.
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(Inside of product)

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