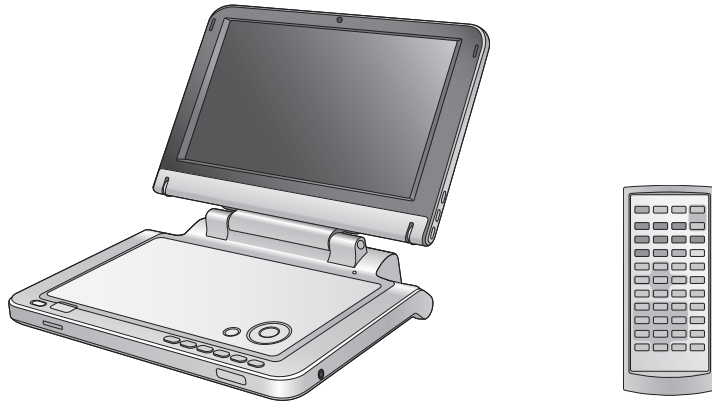# Panasonic®

Operating Instructions
Portable Blu-ray Disc Player

Model No. **DMP-B100**

Dear customer

Thank you for purchasing this product.
For optimum performance and safety, please read these instructions carefully.

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

Blu-ray Disc™ · DVD VIDEO™ · RAM COMPATIBLE PLAYER · COMPACT disc DIGITAL AUDIO · Java POWERED

BD-Video · AVCHD™ · SDXC™ · Java POWERED

Region management information

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

Example:

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

Example:

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

The warranty can be found on page 35.

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IMPORTANT SAFETY INSTRUCTIONS

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

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

The following mark and symbols are located on bottom of the unit.

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

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

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

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

WARNING:

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

CAUTION!

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

CAUTION!

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

CAUTION - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN <AND INTERLOCK DEFEATED>. DO NOT STARE INTO BEAM. FDA 21CFR/CLASS II (IIa)

(Bottom of product)

FCC Note:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
● Reorient or relocate the receiving antenna.
● Increase the separation between the equipment and receiver.
● Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
● Consult the dealer or an experienced radio/TV technician for help.

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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

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Batteries

1 Battery pack (Lithium ion battery pack)
- Use the specified unit to recharge the battery pack.
- Do not use the battery pack with equipment other than the specified unit.
- Do not use the player outside if it is snowing or raining. (The battery pack is not waterproof.)
- Do not get dirt, sand, liquids, or other foreign matter on the terminals.
- Do not touch the plug terminals ($+$ and $-$) with metal objects.
- Do not disassemble, remodel, heat or throw into fire.
- Do not heat or expose to flame.
- Do not leave the battery(ies) in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.

2 Button-type battery (Lithium battery)
- Insert with poles aligned.
- Do not touch the terminals ($+$ and $-$) with metal objects.
- Do not recharge, disassemble, remodel, heat or throw into fire.
- Keep out of reach of children.
- Do not heat or expose to flame.
- Do not leave the battery(ies) in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.

If any electrolyte should come into contact with your hands or clothes, wash it off thoroughly with water.
If any electrolyte should come into contact with your eyes, never rub the eyes.
Rinse eyes thoroughly with water, and then consult a doctor.

3 Disposing of the batteries
   Check and follow your local regulations before disposal.

Warning
Risk of fire, explosion and burns. Do not disassemble.
Do not heat the batteries above the following temperatures or incinerate.
Button-type battery 100 °C (212 °F)
Battery pack 60 °C (140 °F)

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

A lithium ion battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

For USA-California Only
This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material – special handling may apply.
See
www.dtsc.ca.gov/hazardouswaste/perchlorate.

Product Identification Marking is located on the bottom of units.

AC adaptor
This AC adaptor operates on AC between 110 V and 240 V.
But
- In the U.S.A. and Canada, the AC adaptor must be connected to a 120 V AC power supply only.
- When connecting to an AC supply outside of the U.S.A. or Canada, use a plug adaptor to suit the AC outlet configuration.
- When connecting to a supply of greater than AC 125 V, ensure the cord you use is suited to the voltage of the AC supply and the rated current of the AC adaptor.
- Contact an electrical parts distributor for assistance in selecting a suitable AC plug adaptor or AC cord set.

WARNING
DRIVER MUST NOT OPERATE OR VIEW THIS UNIT WHILE OPERATING THE VEHICLE.
Doing so will distract the driver and could cause a collision resulting in serious injury or property damage.

Do not rest the unit on your lap for a long time while using it. The unit can become hot and cause burns.

To prevent damage
Avoid the following:
- Spraying flammable insecticides near the unit.
- Pressing the LCD.
- Touching the lens and other parts of the laser pickup.
Do not use the unit in the following places:
- Sandy places such as beaches.
- On top of cushions, sofas, or hot equipment such as amplifiers.
Do not leave in an unventilated automobile or exposed to direct sunlight and high temperatures.

Listening caution

Do not play your headphones or earphones at a high volume. Hearing experts advise against continuous extended play.

If you experience a ringing in your ears, reduce volume or discontinue use.

Do not use while operating a motorized vehicle. It may create a traffic hazard and is illegal in many areas.

You should use extreme caution or temporarily discontinue use in potentially hazardous situations.

Even if your headphones or earphones are the open-air type designed to let you hear outside sounds, don't turn up the volume so high that you can't hear what's around you.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing.
Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.
To establish a safe level:
- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:
- Leave it there.

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Table of contents

Getting started

Playback

Settings

Reference

Accessories

Please check and identify the supplied accessories. Use numbers indicated in parentheses when asking for replacement parts. (Product numbers correct as of December 2009. These may be subject to change.)

- ☐ **1 Remote control** (N2QAJC000018)
- ☐ **1 Button-type battery for remote control**
  (for replacement ⇨ 9)
- ☐ **1 AC adaptor** (RFEA219W)
- ☐ **1 AC power supply cord** (K2CB2CB00020)
  - ● For use with this unit only. Do not use it with other equipment. Also, do not use cords for other equipment with this unit.
- ☐ **1 Car DC Adaptor** (RFEC207P-AB)
- ☐ **1 Rechargeable battery pack** (DY-DB30)
  - ● DY-DB30 is available as option.

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Firmware updates

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

You can download the latest firmware version from the website "http://panasonic.jp/support/global/cs/" (This site is in English only.).
After you burn the latest firmware to a CD-R disc, play the disc in the unit and update the firmware.
Only when connecting the AC adaptor.

During the firmware update "DO NOT TURN OFF OR UNPLUG THE UNIT OR OPEN THE DISC LID."

● The [⏻] and [CHARGE] indicators light while updating the firmware and the indicators turn off when updating the firmware is finished. (⇨ 8)
● To check the version of the firmware on this unit, refer to "System Information" (⇨ 25)

Unit and media care

Disc and card handling

■ Clean discs

DO   **DO NOT**
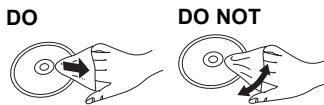
Wipe with a damp cloth and then wipe dry.

■ Disc and card handling precautions

● Handle discs by the edges to avoid inadvertent scratches or fingerprints on the disc.
● Do not attach labels or stickers to discs (This may cause disc warping, rendering it unusable).
● Do not write on the label side with a ball-point pen or other writing instrument.
● Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
● Do not use scratch-proof protectors or covers.
● Clean any dust, water, or foreign matter from the terminals on the rear side of the card.
● Do not use the following discs:
  − Discs with exposed adhesive from removed stickers or labels (rented discs etc).
  − Discs that are badly warped or cracked.
  − Irregularly shaped discs, such as heart shapes.

Maintenance

■ To clean this unit, wipe with a soft, dry cloth.

● Use eyeglass cleaner to remove stubborn dirt from the LCD.
● Do not use a microfiber dust cloth on the LCD screen. Follow the caution when wiping the outer casing.
● Never use alcohol, paint thinner or benzine to clean this unit.
● Wiping the LCD and around the LCD with a hard cloth or rubbing them strongly may scratch the surfaces.

■ Maintenance of the lens

● Remove dust carefully with an air blower for camera lenses (optional).
● Recommended product:
  Lens cleaner kit (SZZP1038C) (Available from Panasonic dealers.)
● You cannot use a CD type lens cleaner.
● Be careful not to touch the lens with your fingers.

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. (⇨ 29, "To return all settings to the factory preset")
● The operation history may be recorded in the memory of this unit.

Media (Disc and card) information

Commercially sold discs

This chart shows the different type of retail/commercial discs you can use, and also includes the industry-standard logos that should appear on the discs and/or packaging.

Type of media and logo	Features	Indicated as
BD-Video Blu-ray Disc™	This format supports High Definition video and audio content including: ●BONUSVIEW allows picture-in-picture functions to be viewed. BONUS*VIEW*™	BD-V
DVD-Video DVD VIDEO™ / DVD VIDEO™	This format supports high quality video and audio playback.	DVD-V
CD COMPACT disc DIGITAL AUDIO	Compact Discs (CD's) that contain audio and music ● Operation and sound quality of CDs that do not conform to CD-DA specifications (copy control CDs, etc.) cannot be guaranteed.	CD

Note about using a DualDisc
●The digital audio content side of a DualDisc does not meet the technical specifications of the Compact Disc Digital Audio (CD-DA) format so play may not be possible.
●Do not use a DualDisc in this unit as it may not be possible to insert it correctly and it may get scratched or scraped.

User recorded media

This chart shows the different type of discs recorded with other devices that you can use.

Finalized This mark means you must finalize the disc with the DVD recorder, etc. before playback. For details about finalizing, refer to the operating instructions for your equipment.

Type of media and logo	Formats	Indicated as
BD-RE Blu-ray Disc™	● Version 3 of the BD-RE Recording Format ● JPEG format	BD-V JPEG
BD-R Blu-ray Disc™	● Version 2 of the BD-R Recording Format	BD-V
DVD-RAM DVD RAM™ RAM4.7	● Version 1.1 of the DVD Video Recording Format ● JPEG format ● AVCHD format	DVD-VR JPEG AVCHD
DVD-R/RW **Finalized** DVD R™ R4.7 / DVD™ R W	● DVD-Video Format ● Version 1.1 of the DVD Video Recording Format ● AVCHD format ● MP3 format (DVD-RW is not supported) ● JPEG format (DVD-RW is not supported)	DVD-V DVD-VR AVCHD MP3 JPEG
DVD-R DL **Finalized** DVD R™ R DL	● DVD-Video Format ● Version 1.2 of the DVD Video Recording Format ● AVCHD format ● MP3 format ● JPEG format	DVD-V DVD-VR AVCHD MP3 JPEG
+R/+RW/+R DL **Finalized**	● +VR (+R/+RW Video Recording) Format ● AVCHD format	DVD-V AVCHD
CD-R/RW **Finalized**	● CD-DA format ● MP3 format ● JPEG format	CD MP3 JPEG

● It may not be possible to play the above discs in some cases due to the type of discs, the condition of the recording, the recording method and how the files were created.
● When a disc recorded in the AVCHD format is being played, the video may be paused for a few seconds at portions spliced, due to deletion or editing.
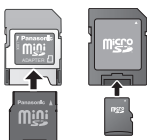
SD cards

This chart shows the different type of cards recorded with other devices that you can use.

Type of media*	Formats	Indicated as
SD Memory Card (from 8 MB to 2 GB) SDHC Memory Card (from 4 GB to 32 GB) SDXC Memory Card (48 GB, 64 GB)	● JPEG format ● AVCHD format ● MPEG2 format	**JPEG** **AVCHD** **MPEG2**

* Includes miniSD Card, microSD Card, microSDHC Card and microSDXC Card

The card types mentioned above will be referred to as "SD card" in these operating instructions.

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

● We recommend using a Panasonic SD card.
Please confirm the latest information on the following website.
http://panasonic.jp/support/global/cs/
(This site is in English only.)

● This unit is compatible with SD Memory Cards that meet SD Card Specifications FAT12 and FAT16 formats, as well as SDHC Memory Cards in FAT32 format (Does not support long file name.) and SDXC Memory Cards in exFAT.

● If the SD card is used with incompatible computers or devices, recorded contents may be erased due to the card being formatted etc.

● When using cards from 4 GB to 32 GB, only SD cards using the SDHC logo can be used.

● When using cards 48 GB and 64 GB, only SD cards using the SDXC logo can be used.

● Useable memory may be slightly less than the card capacity.

● If the SD card you are attempting to use was formatted on a PC, it is possible that the card may not work properly.

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

● When a card recorded in the AVCHD format is being played, the video may momentarily pause, especially where one recording ends and the next one begins. This is normal and does not indicate a problem.

● To protect the card's contents, move the record prevention tab (on the SD card) to "LOCK".

Discs that cannot be played in this unit

● 2.6 GB and 5.2 GB DVD-RAM
● DVD-RAM that cannot be removed from cartridge
● 3.95 GB and 4.7 GB DVD-R (Authoring)
● DVD-R, DVD-R DL, DVD-RW, +R, +R DL recorded on another unit and not finalized
● BD-Video with a region code other than "A"
● DVD-Video with a region number other than "1" or "ALL"
● Version 1.0 DVD-RW
● DVD-ROM, CD-ROM, CDV, CD-G, CVD, SACD, Photo CD, MV-Disc and PD
● DVD-Audio
● Video CD and SVCD
● WMA discs
● PAL discs
● DivX discs
● HD DVD
● BD-Video discs recorded at a rate of 50 fields/sec
● Any other disc that is not specifically supported

Overview

The Unit

Instructions for operations are generally described using the remote control in these operating instructions.

Front View
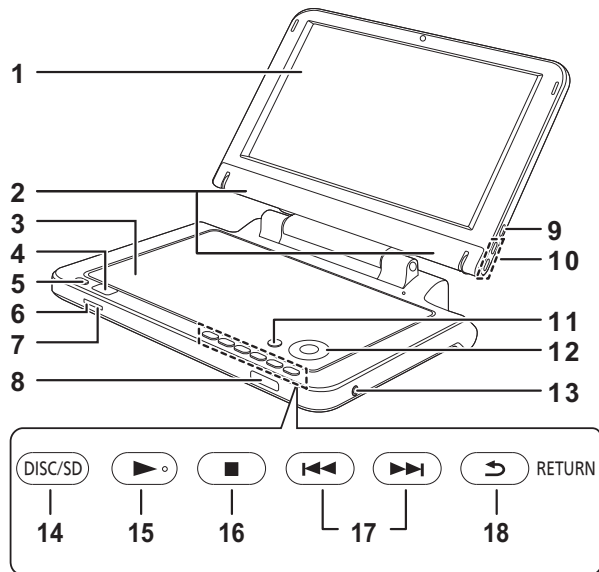
Rear View

1. **LCD screen**
2. **Speaker**
3. **Disc lid**
4. **Open the disc lid**
5. **Turn the unit on and off (⇨ 12)**
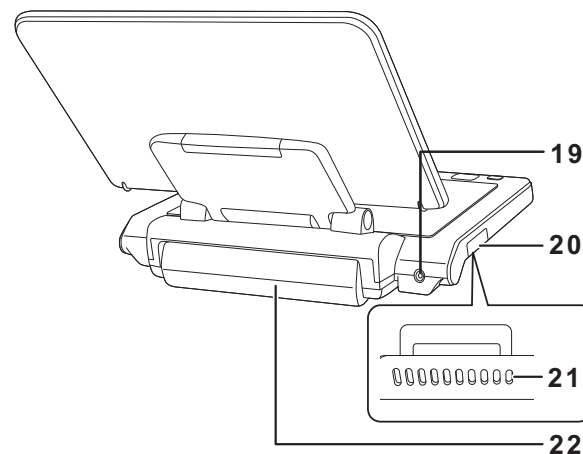6. **[⏻] indicator (⇨ 10)**
   When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
7. **[CHARGE] indicator (⇨ 11)**
   While recharging the battery pack, this indicator lights up.
8. **Remote control signal sensor (⇨ 9)**
9. **Change the screen settings (⇨ 13)**
10. **Adjust the volume (⇨ 14)**
11. **Show the sub menu**
12. **Selection/OK**
    - To select: Press up, down, left, or right ([▲, ▼, ◄, ►])
    - To enter: Press [OK]
13. **Headphone terminal [Ω]**
    (ɸ 3.5 mm stereo mini jack)
14. **Switch the media to playback**
    It will switch every time it is pressed.

    DISC → SD

15. **Playback (⇨ 14)**
16. **Stop (⇨ 16)**
17. **Skip title numbers, etc. (⇨ 16)**
18. **Return to previous screen**
19. **DC IN terminal (⇨ 10)**
20. **SD card slot (⇨ 13)**
21. **Exhaust opening**
22. **Battery pack (included)**

About the exhaust opening:
Do not block the exhaust opening on the side, or use in a place that will block the exhaust opening.
The heat will build up internally, and may cause a fire or deformation of the outer casing.

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Remote control
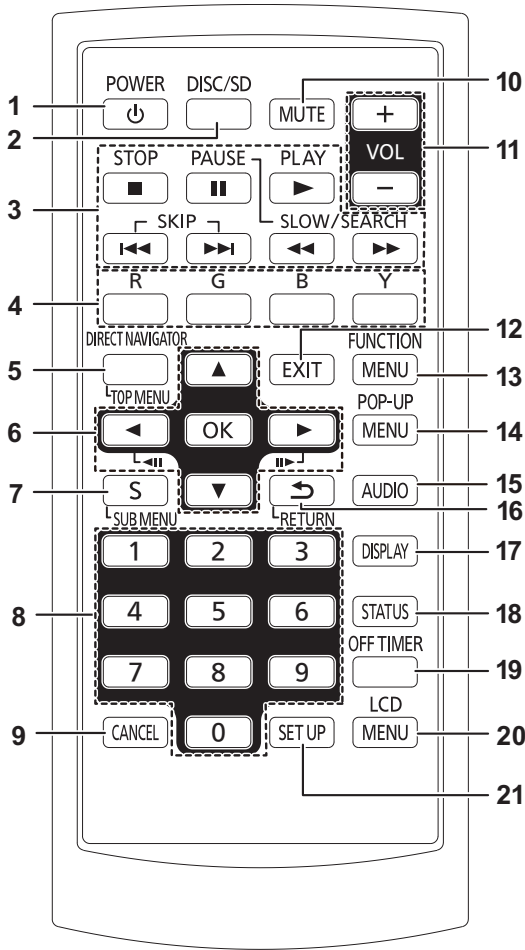
1. **Turn the unit on and off (⇨ 12)**
2. **Switch the drive to playback (⇨ 14)**
3. **Basic operations for playback (⇨ 14 – 16)**
4. **Use according to the instructions on the screen**
5. **Show Top menu/Direct Navigator (⇨ 14)**
6. **Selection/OK, Frame-by-frame**
   - To select: Press up, down, left, or right ([▲, ▼, ◄, ►])
   - To enter: Press [OK]
   - Frame forward / Frame backward:
     (While paused) press left or right ([◄▌▌][▌▌►])
7. **Show the sub menu**
8. **Select title numbers, etc./Enter numbers (⇨ 16)**
9. **Cancel the values that were entered**
10. **Mute the sound**
11. **Adjust the volume (⇨ 14)**
12. **Erase the screen**
13. **Show FUNCTION MENU (⇨ 12)**
14. **Show Pop-up menu (⇨ 14)**
15. **Select audio (⇨ 17)**
16. **Return to previous screen**
17. **Show on-screen menu (⇨ 22)**
18. **Show status messages (⇨ 17)**
19. **Turn the unit off automatically (⇨ 12)**
20. **Change the screen settings (⇨ 13)**
21. **Change the setup of this unit (⇨ 24)**

■ Insert the button-type battery (included)

① Pull out the holder.

Bottom
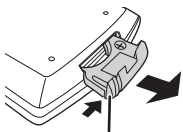
Pull out while pressing here

② Insert the battery and return the holder.
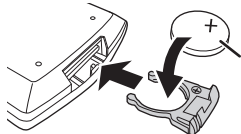
+ facing up
Lithium battery: **CR2025**

● Keep the button-type battery out of reach of children to prevent swallowing.

■ Range of use

Within 20 degrees angle either up or down

Remote control signal sensor

Within 30 degrees angle either left or right

Remote control transmitter
Within 7 m (23 ft.) in front

The distance and angles are approximate.

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Adjusting the LCD screen angle

Ⓐ

Ⓑ

Ⓓ

Ⓒ
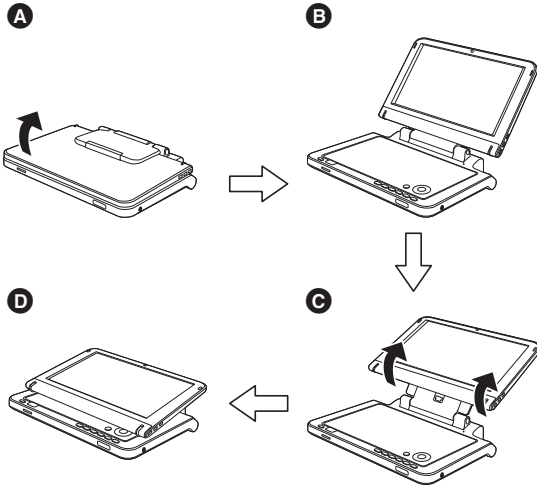
Ⓐ Open the screen.
Ⓑ Standard
Ⓒ Free
Ⓓ Compact

When moving the unit:
● Close the LCD screen. Don't hold by the LCD screen.

About the LCD screen
There may be 0.01 % or less chance of missing or constantly turned on pixels, but this is not a malfunction.

Attention
Do not place the unit with the LCD display-side down when the screen is open.
Doing so may scratch the surface of the LCD and around the LCD.

Preparing the Power Supply

Using the unit connected to the AC adaptor

DC IN 12V ①

To a household AC outlet

③

②

AC power supply cord
(included)

AC adaptor
(included)
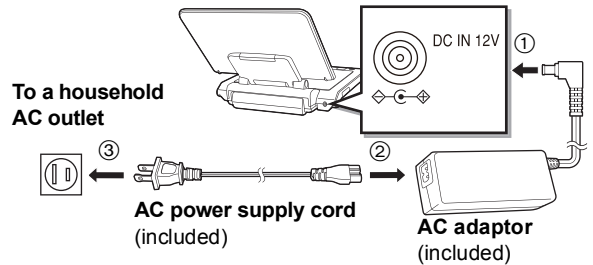
The unit is in the standby condition (the [⏻] indicator lights) when the AC power supply cord is connected. The primary circuit is always "live" as long as the AC adaptor is connected to an electrical outlet.
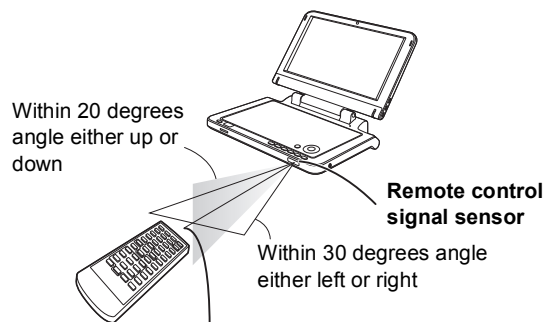
To conserve power
This unit consumes 0.5 W (Approximately 5 W when Quick Start is set to "On") of power even when turned off. When the unit is not going to be used for a long time, disconnect the AC power supply cord from the household AC outlet.

Using the battery pack

This unit can be used in places without an AC outlet, such as outdoors, by attaching the included battery pack.
● The battery is not charged at the time of purchase. Charge before initial use.
● The battery is designed only for use with this unit. It cannot be used with other equipment.

■ Attaching the battery pack

Turn the unit off before attaching or detaching the battery pack.
Bottom side of this unit

①

Battery pack
(included)

②
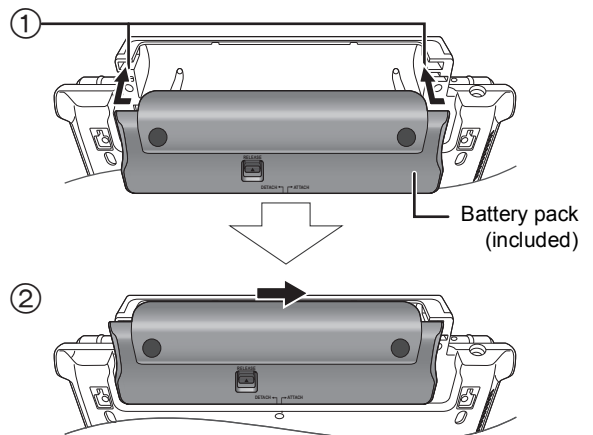
① Bring in from the left, aligning the grooves.
② Slide all the way to the right until you hear a "click".
Check to make sure it is securely fastened.

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■ Detaching the battery pack

Bottom side of this unit

② Slide.

① Press and hold.
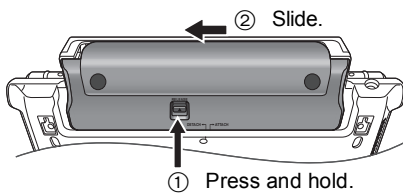
When not using for long periods of time

● Detach the battery pack (⇨ above).
(Even when the unit is turned off, there is a small amount of voltage running through the unit, and this may result in a malfunction.)
● Recharge the battery for re-use.

■ Recharging the battery pack

Attach the battery pack and connect the AC adaptor (⇨ 10).

● The [CHARGE] indicator lights while charging the battery, and the [CHARGE] indicator turns off when battery charging is finished.

CHARGE

[CHARGE] indicator
(Orange light)

■ Approximate recharging and play times
(Hours)

Recharging[*1]	Play[*2]		
	LCD brightness level		
	−5	0	+5
5	3.5	3.25	3

[*1] When the unit is off [at 20 °C (68 °F)]
[*2] At room temperature using headphones [at 20 °C (68 °F)]

● Play time indicated above may differ depending on the use.
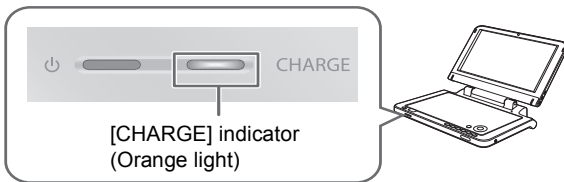● To change the LCD brightness (⇨ 13, "Adjusting the pictures on the LCD screen").

■ Checking the remaining battery charge

Not displayed when the AC adaptor is in use.

Press [SUB MENU] while the power is "On"

Remaining charge is displayed for a few seconds at the bottom right of the screen.

Fully charged → → → **Recharge** (flashing)
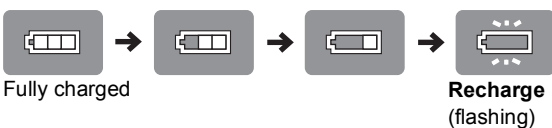
Charge the battery pack when the display starts to flash.
● Appears automatically when there is only a few minutes of charge remaining.

Connecting the included Car DC Adaptor

Before connection, consult your car owner's manual or your dealer.
● Connect to the cigarette lighter socket of a vehicle that has a 12 V battery. It is not compatible with a vehicle that has a 24 V battery.
● This is a special negative grounded Car DC Adaptor. Using this Car DC Adaptor with a plus grounded car can cause malfunction and lead to fire.

Car DC Adaptor (included)

1　　　　　　**2**

DC IN 12V
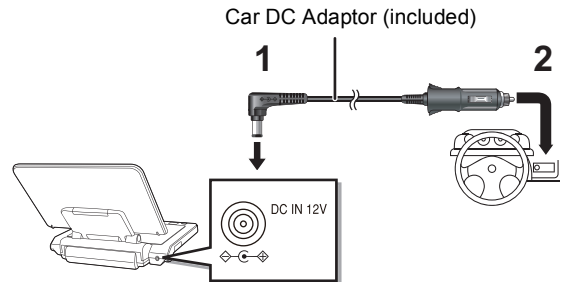
1 Connect the car DC adaptor to the unit.
2 Connect the car DC adaptor to the cigarette lighter socket.

Replacing the fuse

Replace only with the specified 125 V/250 V, 3.15 A fuse.
Use of any other type can cause fire.

② 125 V/250 V, 3.15 A type

③

①
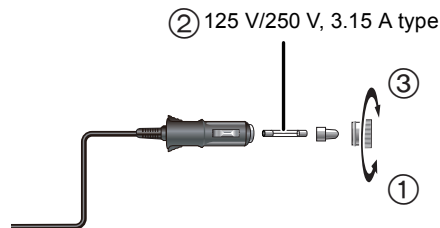
① Open the socket.
② Replace the fuse.
③ Close the socket.

Cautions

● **To avoid draining your car battery**
　−Disconnect the Car DC Adaptor from the cigarette lighter after use. The Car DC Adaptor continues to consume some power even if it is not being used, and if a battery pack is attached to this unit, it will start recharging which uses more power.
　−Do not use the Car DC Adaptor for long periods when the engine is not running.
● Leave some slack in the cord.
● No responsibility will be taken for damage that occurs due to faulty installation.

VQT2H71

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Turning on/off the unit

Press [POWER ⏻] (approx. 0.5 sec.).

The unit is turned off when [POWER ⏻] is pressed again.
● The power is shut off if the screen is closed while the power is "On".
● When the "Auto Power Off" is set to "On" (initially set to "On"), the unit will be turned off automatically after 15 minutes (5 minutes when the battery pack is used) when it is in stopped status (⇨ 25).
● The startup will take time. The operation related to startup of the unit after turning on this unit can be quickened by setting the initial setup "Quick Start" (⇨ 25) to "On" (initially set to "Off"). (The power consumption will increase)
● You may hear operational sounds when the unit is turned on, but this is due to the initialization of the pickup unit, and it is not a malfunction.

Easy Setting

After opening the LCD screen and pressing [POWER ⏻] for the 1st time, a screen for the basic settings will appear.

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

"On-screen Language" (⇨ 25), "Picture Quality Mode" (⇨ 13) and "Quick Start" (⇨ 25) are set.

● You can perform this setup anytime by selecting "Easy Setting" in the Setup menu. (⇨ 25)
● You can also change this setting individually. (⇨ 13, 25)

Turn the unit off automatically

The unit is turned off automatically after set time has passed.

Switch by pressing the [OFF TIMER].

e.g., 30 min.

Off Timer	0 : 30

It will switch every time it is pressed.

Off → 0:30 → 1:00 → 2:00 → 3:00 → 6:00 → 12:00
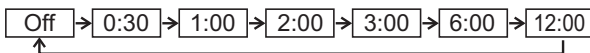
Showing FUNCTION MENU

Some functions of this unit can be operated from FUNCTION MENU.

1 Press [FUNCTION MENU].
● Functions displayed depend on the media and operating conditions.

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

e.g.,
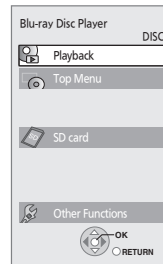
▷ Playback (⇨ 14)
▷ Top Menu (⇨ 14)
▷ Menu (⇨ 15, 18, 20)
▷ Viewing Picture (⇨ 18)
▷ Viewing Video (⇨ 14)
▷ Listening Music (⇨ 20)
▷ Disc (⇨ 14)
　Switches to the disc drive.
▷ SD card (⇨ 14)
　Switches to the SD drive.
▷ Other Functions
　"Playlists":
　You can play playlists created on DVD-VR.
　Press [▲, ▼, ◄, ►] to select the playlist and press [OK].
　"Setup" (⇨ 24)
　"Card Management" (⇨ 21)

Adjusting the pictures on the LCD screen

1 Press [LCD MENU].
- It is also possible to display with the following procedures.
  ① Press [SUB MENU].
  ② Select "Other Functions" with [▲, ▼], and select [OK].
  ③ Select "LCD Menu" with [▲, ▼], and select [OK].

```
LCD Menu
Picture        ◄  Dynamic  ►
   Brightness
   Color
   Tint

       SUB  ◄O►  RETURN
      MENU O ▽ O
```
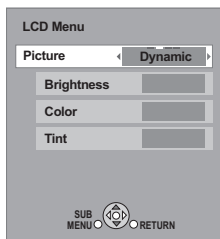
2 Select the item with [▲, ▼].
3 Change the setting with [▲, ▼, ◄, ►].

Picture:Adjusting image quality
  ▷ Standard: Standard
  ▷ <u>Dynamic</u>: Picture with high contrast
  ▷ Night: Picture suitable for viewing in dark places
  ▷ User −Brightness: −5 to +5
              −Color: −5 to +5
              −Tint: −5 to +5

- Underlined items are the factory presets.

To exit the screen
Press [EXIT].

Loading the disc or SD card

Disc
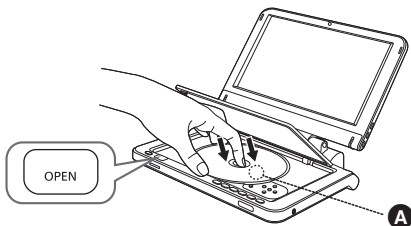
1 Press [OPEN].
2 Set the disc and close the lid.
- Set the disc securely until you hear a "click", with the label side up. (Double-sided disc: place the label side up that you want to play back)

- Some discs may start playing when it is loaded with the unit turned on.
- About discs with a cartridge
  −DVD-RAM, DVD-R: Remove the disc from the cartridge and set the disc in the tray. Cartridge discs cannot be used.
  −Place the disc back into the cartridge for storage to prevent dirt and scratches after use.
- Do not touch the lens as it may make it dirty.

Lens (Ⓐ)
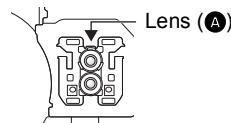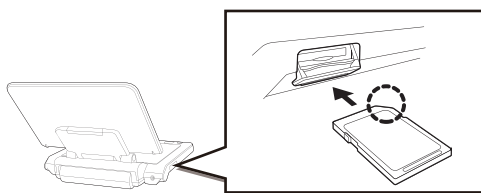
SD card

1 Open the cover at the side of the unit.
2 Insert the SD card into the SD card slot.
- With the label side up, insert the card straight in the direction shown in the figure, until you hear a sound.

3 Close the cover.

To remove the card
In step 2 above, press the center of the card until it "clicks", and pull the card out straight.

Basic play (Playing video contents)

Instructions for operations are generally described using the remote control in these operating instructions.

Insert a disc or SD card (⇨ 13).
Play starts.
● If play does not start, press [▶] (PLAY).
● If a media with data in different file formats is inserted, the file selection menu is displayed. Press [▲, ▼] to select the desired file format and press [OK].
● If the menu is displayed, press [▲, ▼, ◄, ▶] to select the item and press [OK].
● If the screen prompting you to use the color buttons appears, continue to operate with the color buttons on the remote control.

● DISCS CONTINUE TO ROTATE WHILE MENUS ARE DISPLAYED. Press [■] when you finish to preserve the unit's motor.
● The producers of the disc can control how discs are played, so you may not always be able to control play as described in these operating instructions. Read the disc's instructions carefully.
● When playing a set of two or more BD-Video discs, the menu screen may continue to display even if the disc has been ejected.
● The start of playback may take time depending on the disc or SD card.
● The sound of rotation may be audible during disc playback, but this is not a malfunction.

To adjust the volume

Press [VOL −] or [VOL +].
● When using headphones, turn down the volume before connection.

To switch drives

Press [DISC/SD] to select "DISC" or "SD".
● If a media is inserted while the unit is stopped, the drive switches automatically depending on the inserted media.

To show menus

BD-V AVCHD DVD-VR DVD-V
Press [DIRECT NAVIGATOR/TOP MENU].
● Total title number may not be displayed properly on +R/+RW.

e.g., DVD-RAM
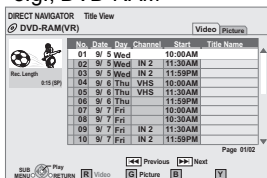
To show Pop-up menu

BD-V
The Pop-up menu is a special feature available with some BD-Video discs. This menu may vary with discs. For the operating method, refer to the instructions for the disc.

① Press [POP-UP MENU].
② Press [▲, ▼, ◄, ▶] to select the item and press [OK].
● Pop-up menu also appears by pressing [SUB MENU] and selecting "Pop-up Menu".
● Press [POP-UP MENU] to exit the screen.

Playing HD Video or SD Video

AVCHD MPEG2
It is possible to play the HD (High Definition) video recorded on the Panasonic High definition Video Camera on the DVD-RAM/R/RW/R DL/+R/+RW/+R DL or SD card, and SD (Standard Definition) Video recorded on the Panasonic SD Video Camera on the SD card.

1 Insert a disc or SD card (⇨ 13).
● "Video (AVCHD)" or "Video (MPEG-2)" screen is displayed.
● If a media containing data in different file formats is inserted, the file selection menu may be displayed. Press [▲, ▼] to select "Play Video (AVCHD)" or "Play Video (MPEG-2)" and press [OK].

e.g.,
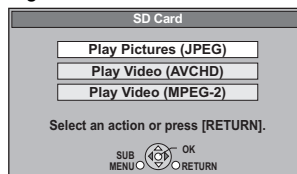
2 Press [▲, ▼, ◄, ▶] to select the title and press [OK].
● Total title number may not be displayed properly on +R/+RW.

e.g.,
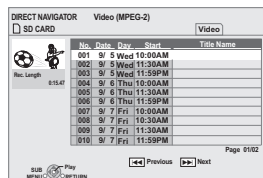
To return to the menu screen
Press [DIRECT NAVIGATOR/TOP MENU].
To exit the menu screen
Press [EXIT].

To switch from other menus to AVCHD or MPEG2 menu

(If the media contains data in different file formats)
① Press [FUNCTION MENU].
② Press [▲, ▼] to select "Menu" and press [OK].
③ Press [▲, ▼] to select "Play Video (AVCHD)" or "Play Video (MPEG-2)" and press [OK].

● It may pause for a few seconds on the break of images when editing such as partial deletion is performed.
● High definition video (transfer rate of 18 Mbps or faster) cannot be played back correctly if it was recorded on a DVD compatible to double speed or slower.

Chapter playback

DVD-VR AVCHD

1 Insert a disc or SD card (⇨ 13).

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

e.g., AVCHD

Properties	To display the title properties (recording date, etc.)
View Chapters	To select the chapter
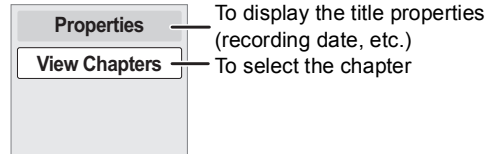
3 Press [▲, ▼] to select "View Chapters" and press [OK].

4 Press [▲, ▼, ◄, ►] to select the chapter and press [OK].

e.g., AVCHD
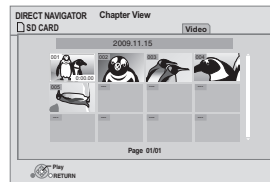
DIRECT NAVIGATOR   Chapter View
SD CARD   Video
2009.11.15
Page 01/01
Play
RETURN

To return to the previous screen
Press [RETURN].
To exit the screen
Press [EXIT].

Playback

Other operations during play

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

STOP	**Stop**
■	

The stopped position is memorized.

Resume play function
Press [▶] (PLAY) to restart from this position.
● The memorized position is cleared in the following instances:
  − [■] is pressed several times
  − The disc or SD card is removed
  − The unit is turned off due to such occurrences as power outage, the removal of the AC adaptor or waste of the battery pack's remaining power when the unit is turned on
● **BD-V**: On BD-Video discs including BD-J (⇨ 33), the resume play function does not work.
● **MPEG2**: The position is cleared if the unit is turned off.

PAUSE	**Pause**
❚❚	

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

SLOW/SEARCH	**Search/Slow-motion**
◀◀ ▶▶	

The speed increases up to 5 steps.
● Press [▶] (PLAY) to revert to normal playback speed.
● For some discs, the speed may not change.

Search
While playing, press [◀◀] or [▶▶].
● **DVD-VR** **DVD-V**: Audio is heard during the first step of forward search.
● **BD-V** **AVCHD** **MPEG2**: Audio is not heard during all steps of search.
● **CD** **MP3**: The speed is fixed to a single step.

Slow-motion
While paused, press [◀◀] or [▶▶].
● **BD-V** **AVCHD**: Forward direction [▶▶] only.
● **DVD-VR**: If continued for approx. 5 minutes, slow-motion play pauses automatically.

SKIP	**Skip**
◀◀ ▶▶	

Skip to the title, chapter or track you want to play.
● Each press increases the number of skips.
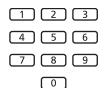
1 2 3 / 4 5 6 / 7 8 9 / 0	**Direct Play**

During playback, you can access specific recordings or scenes through direct entry of the numbered buttons.
Play starts from the selected title or chapter.

BD-V **AVCHD**   **DVD-V**
e.g.,   5: [0] ⇨ [0] ⇨ [5]   e.g.,   5: [0] ⇨ [5]
      15: [0] ⇨ [1] ⇨ [5]   15: [1] ⇨ [5]

● While stopped (the image on the right is displayed on the screen), the title is designated. While playing, the chapter is designated.

▲ ◀ OK ▶ ▼	**Frame-by-frame**

While paused, press [◀] (◀❚❚) or [▶] (❚❚▶).

Each press shows the next frame.
● Press and hold to change in forward or backward succession.
● Press [▶] (PLAY) to revert to normal playback speed.
● **BD-V** **AVCHD**: Forward direction [▶] (❚❚▶) only.

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Screen Aspect

When black bars are shown at the top, bottom, left, and right sides of the screen, you can enlarge the image to fill the screen.
① Press [SUB MENU].
② Press [▲, ▼] to select "Other Functions" and press [OK].
③ Press [▲, ▼] to select "Screen Aspect" and press [OK].
④ Press [◄, ►] to select "Side cut" or "Zoom".
   ▷ Normal: Normal output
   ▷ Side cut: The black bars on the right and left sides of the 16:9 image disappear and the image is enlarged. Please note that the right and left sides of the image are cut off when the black bar is not displayed.
   ▷ Zoom: The black bars on the top and bottom sides of the 4:3 image disappear and the image is enlarged. Please note that the top and bottom sides of the image are cut off when the black bar is not displayed.
● Please note that the top, bottom and sides of the image will be cut off in images with no black bars.
● Screen aspect will return to "Normal" in the following instances:
   − The drive is switched
   − The unit is turned on/off
● BD-V DVD-V : "Side cut" does not have any effect.

STATUS   **Status messages**

The status messages give you information about what is currently being played. Each time you press [STATUS], the information displayed will change.
● It is also possible to display with the following procedures:
① Press [SUB MENU].
② Select "Status" with [▲, ▼], and select [OK].

e.g., BD-V   Type of disc   Play status

```
                    BD-Video
                    Play
```

No display

```
T: Title          Items change
C: Chapter        depending on the
                  disc played.
PL: Playlist
```

Elapsed time in the title

```
■ T1  C1  0:05.14
                          0:20.52
```

Current position   Total time
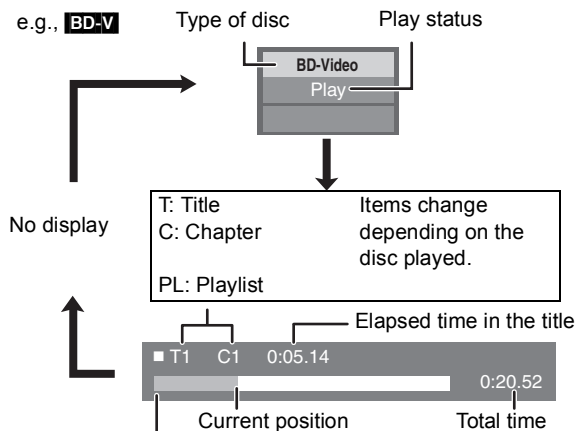
Depending on the kind of media or the playback status, this display may not appear.

AUDIO   **Changing audio**

● It is also possible to display with the following procedures:
① Press [SUB MENU].
② Select "Other Functions" with [▲, ▼], and select [OK].
③ Select "Audio" with [▲, ▼], and select [OK].
BD-V DVD-V

e.g., DVD-V

```
Soundtrack    ▲ 1 ENG  ▯▯ Digital 3/2.1ch
              ▼
```

English is selected.

You can change the audio channel number each time you press [AUDIO] or [▲, ▼]. This allows you to change the soundtrack language (⇨ 22, "Soundtrack"), etc.

DVD-VR MPEG2

AudioLR → AudioL → Audio R

e.g.,

```
DVD-RAM(VR)
Play
```
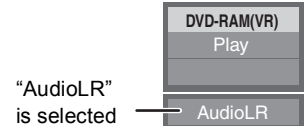
"AudioLR" is selected

```
AudioLR
```

You can change soundtracks each time you press [AUDIO].

Playback

Playing still pictures

`JPEG`

Playback of the BD-RE, DVD-RAM/R/R DL or CD-R/RW with still pictures recorded. This unit can also play still pictures recorded on the SD card.

(About structure of folders ⇨ 27, "Structure of folders that can be played in this unit")

1 Insert a disc or SD card (⇨ 13).

■ BD-RE, DVD-RAM

"Album View" screen is displayed.
● When the "Title View" screen is displayed, press the [G] button to switch to the "Album View" screen.
● If the DVD-RAM containing both JPEG and AVCHD format is inserted, the file selection menu may be displayed.

■ DVD-R/R DL, CD-R/RW, SD card

● If the media containing data in different file formats is inserted, the file selection menu may be displayed.
Press [▲, ▼] to select "Play Pictures (JPEG)" and press [OK].

e.g.,

```
                SD Card
        ┌──────────────────────────┐
        │   Play Pictures (JPEG)   │
        │   Play Video (AVCHD)     │
        │   Play Video (MPEG-2)    │
        └──────────────────────────┘
     Select an action or press [RETURN].

        SUB ⊙ OK
        MENU  RETURN
```

"Picture View" screen is displayed.
⇨ Go to step 3

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

e.g.,

```
DIRECT NAVIGATOR   🗀 Album View
🗀 DVD-RAM(VR)                    Video  Picture
                   008
 186_DVD            2006 9 12
 Total 8            Total 13

        |◄◄ Previous  ►►| Next   ► Slideshow  Page 02/02
SUB ⊙ OK    R Video  G Picture  B       Y
MENU RETURN              Press [OK] to go to Picture View.
```

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

e.g.,

```
DIRECT NAVIGATOR    Picture View
🗀 DVD-RAM(VR)                    Video  Picture
                  2006 9 12
 0001

                  Page 001/001
SUB ⊙ Play
MENU RETURN
```
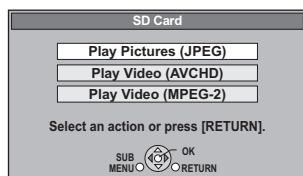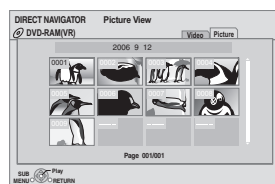
● Press [◄, ►] to display the previous or next still picture.
● Press [|◄◄, ►►|] to show other pages.
● Playback is not possible for pictures other than JPEGs.
● Black bars may be displayed on the top, bottom or sides depending on the picture aspect ratio.

To return to the previous screen
Press [RETURN].
To exit the screen
Press [EXIT].

To switch from other menus to JPEG menu

(If the media contains data in different file formats)
① Press [FUNCTION MENU].
② Press [▲, ▼] to select "Menu" and press [OK].
③ Press [▲, ▼] to select "Play Pictures (JPEG)" and press [OK].

Useful functions during still picture play

Start Slideshow

You can display still pictures one by one at a constant interval.

■ BD-RE, DVD-RAM

1 While the "Album View" screen is displayed
Press [▲, ▼, ◄, ►] to select the album and press [SUB MENU].
● You can also start slideshow by pressing [►] (PLAY) after selecting the album.

2 Press [▲, ▼] to select "Start Slideshow" and press [OK].

■ DVD-R/R DL, CD-R/RW, SD card

1 While the "Picture View" screen is displayed
Press [SUB MENU].

2 Press [▲, ▼] to select "Start Slideshow" and press [OK].

To stop slideshow
Press [■].

Slideshow settings

In step 2 in Start Slideshow (⇨ above)

1 Press [▲, ▼] to select "Slideshow Settings" and press [OK].

2 To change the display interval
Press [▲, ▼] to select "Display Interval" and press [◄, ►] to select the interval ("Long", "Normal" or "Short").
● When a still picture with a large number of pixels is played, the display interval may become longer. Even if the setting is changed, the display interval may not become shorter.

To set display method
Press [▲, ▼] to select "Transition Effect" and press [◄, ►] to select "Fade", "Motion" and "Random".
▷ Fade: Pictures are changed by fading out and fading in.
▷ Motion: Pictures are changed by fading out and fading in, while they are enlarged, reduced, or moved up or down.
▷ Random: In addition to the "Motion", pictures are changed by various methods.

To repeat slideshow

Press [▲, ▼] to select "Repeat Play" and press [◄, ►] to select "On" or "Off".

To listen to Background Music (SD card only)

The music CD can be played back as Background Music during the slideshow.

Press [▲, ▼] to select "Soundtrack" and press [◄, ►] to select "On" or "Off".

● You cannot search or skip on the music.
● When the slideshow stops, the playback of the music also stops.

3 Press [▲, ▼, ◄, ►] to select "Set" and press [OK].

Rotate

**1 While playing (except for slideshow)
Press [SUB MENU].**

2 Press [▲, ▼] to select "Rotate Right" or "Rotate Left" and press [OK].

● The rotation information will be stored until the unit is turned off or the media is removed.

Zoom out

This function is only available for small-sized still pictures.

**1 While playing (except for slideshow)
Press [SUB MENU].**

2 Press [▲, ▼] to select "Zoom out" and press [OK].

● The zoom-out information will not be stored.

To cancel "Zoom out"

① Press [SUB MENU].
② Select "Zoom in" and press [OK].

To select the still pictures in another folder

■ BD-RE, DVD-RAM

To switch to another higher folder
(Only if there is a multiple number of higher folders recognizable)

**1 While the "Album View" screen is displayed
Press [SUB MENU].**

2 Press [▲, ▼] to select "Select Root folder" and press [OK].

3 Press [◄, ►] to select the higher folder and press [OK].

e.g.,
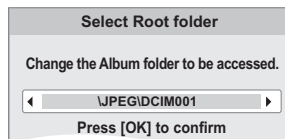
■ DVD-R/R DL, CD-R/RW

**1 While the "Picture View" screen is displayed
Press [SUB MENU].**

2 Press [▲, ▼] to select "Select Folder" and press [OK].

3 Press [▲, ▼] to select a folder and press [OK].

e.g.
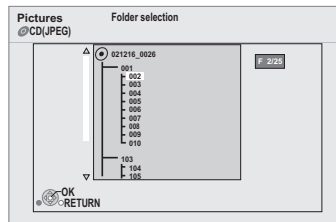
To show the picture properties

While playing

Press [STATUS] twice.

● It is also possible to display with the following procedures:
① Press [SUB MENU].
② Select "Status" with [▲, ▼], and select [OK].

e.g., JPEG on DVD-RAM

Shooting date
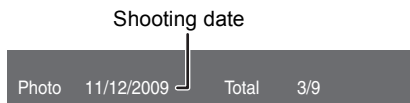
To exit, press [STATUS].

Playback

Playing music

`CD` `MP3`
You can play generally available music CDs or MP3 files
recorded onto a DVD-R/R DL and CD-R/RW.
(About structure of folders ⇨ 27, "Structure of folders that can
be played in this unit")

1 Insert a disc (⇨ 13).

"Music list" screen is displayed.
● If the media containing data in different file formats is
inserted, the file selection menu may be displayed. Press
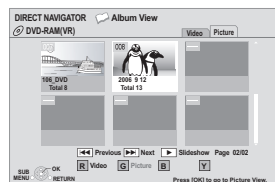[▲, ▼] to select "Play Music (MP3)" and press [OK].

e.g.,

CD
Play Pictures (JPEG)
Play Music (MP3)

Select an action or press [RETURN].

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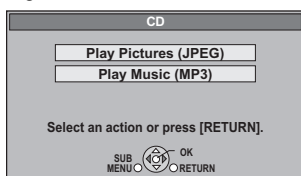
2 Press [▲, ▼] to select the track and press [OK].

Play starts on the selected track.
● Playback for some discs may start automatically.

e.g., `CD`

DIRECT NAVIGATOR	Music list	▶ 0.09	4.30
CD		Track1	

5 Tracks / Total Play Time 20min54sec

No.	Track Name	Play Time
01	Track1	4min30sec
02	Track2	3min41sec
03	Track3	4min30sec
04	Track4	3min11sec
05	Track5	5min 2sec
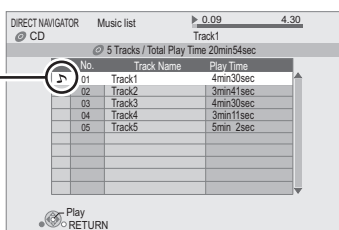
Play
RETURN

" ♪ " indicates the track currently playing.

● You can use search and skip functions. (⇨ 16)
● The screen switches to Screen Saver mode if there is no
operation for 2 minutes after starting playback. (Playback
continues.)

To switch from other menus to MP3 menu

(If the media contains data in different file formats)
① Press [FUNCTION MENU].
② Press [▲, ▼] to select "Menu" and press [OK].
③ Press [▲, ▼] to select "Play Music (MP3)" and press [OK].

Playing a track in another folder

`MP3`

1 While the "Music list" is displayed
Press [SUB MENU].

2 Press [▲, ▼] to select "Select Folder" and press [OK].

3 Press [▲, ▼] to select a folder and press [OK].

e.g.,

| DIRECT NAVIGATOR	Select Folder
CD(MP3)	

MP3 music
001 My favorite
002 Brazilian pops
003 Chinese pops
004 Czech pops
005 Hungarian pops
006 Liner notes
007 Japanese pops
008 Mexican pops
009 Philippine pops
010 Swedish pops
011 Momoko
012 Standard number
013 Piano solo
014Vocal

F 6/25

OK
RETURN
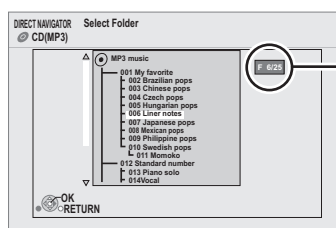
**Selected folder
No. /Total folders**
If the folder has no
track, "– –" is
displayed as folder
number.

● You cannot select folders that contain no compatible tracks.

To return to the previous screen
Press [RETURN].

Enjoying BONUSVIEW in BD-Video

BD-V

What is BONUSVIEW?

BONUSVIEW allows you to enjoy functions such as picture-in-picture or secondary audio etc., with BD-Video supporting BD-ROM Profile 1 version 1.1/ Final Standard Profile.

● These discs may not be on sale in certain regions.
● 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.

Secondary video

Primary video
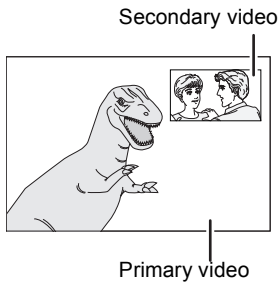
To turn on/off secondary video
Set "Video" in "Secondary Video" to "On" or "Off" (⇨ 22, Press [DISPLAY] ⇨ "Disc" ⇨ "Signal Type")
The secondary video is played.

To turn on/off secondary audio
Set "Soundtrack" in "Secondary Video" to "On" or "Off" (⇨ 22, Press [DISPLAY] ⇨ "Disc" ⇨ "Signal Type")

The secondary audio is played.

● During search/slow-motion or frame-by-frame, only the primary video is displayed.
● The playback method determined by the disc will take priority, so it may not play back in the manner specified with this unit.
● When the secondary video is turned off, the secondary audio will not be played.

Formatting SD cards/Deleting data

● If the SD card you use is formatted, all data on the card will be erased. It cannot be recovered.

① Insert an SD card (⇨ 13).
② Press [FUNCTION MENU].
③ Press [▲, ▼] to select "Other Functions" and press [OK].
④ Press [▲, ▼] to select "Card Management" and press [OK].
⑤ Press [▲, ▼] to select "BD-Video Data Erase" or "Format SD Card" and press [OK].
⑥ Press [◄, ►] to select "Yes" and press [OK].
⑦ Press [◄, ►] to select "Start" and press [OK].

e.g.,
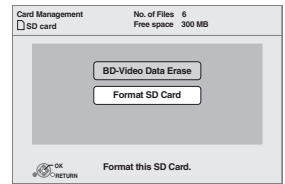
● If you experience any problems, first, try formatting the SD card in this unit.
● While using this feature, do not open the cover at the side of the unit, touch or remove the SD card.

Playback

Changing settings with the on-screen menu

On-screen menu operations

1 Press [DISPLAY].
● It is also possible to display with the following procedures:
① Press [SUB MENU].
② Select "Other Functions" with [▲, ▼], and select [OK].
③ Select "Settings for Playback" with [▲, ▼], and select [OK].

e.g., BD-Video

Disc	Signal Type			
Play				
Video	Subtitle	Off	Main	1ENG
Audio	Subtitle Style	-	Angle	-

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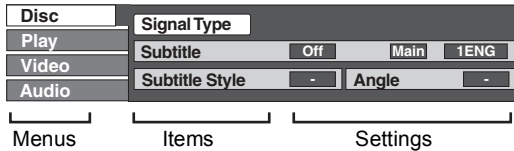
● Depending on the condition of the unit (playing, stopped, etc.) and media contents, there may be some items that you cannot select or change.

2 Press [▲, ▼] to select the menu and press [▶].

3 Press [▲, ▼, ◀, ▶] to select the item and press [▶].

4 Press [▲, ▼] to select the setting.
● Some items can be changed by pressing [OK].

To exit the on-screen menu
Press [DISPLAY] or [EXIT].

What you can change with the on-screen menu

Disc

Signal Type
BD-V
▷ Primary Video
Video: The recording method of original video appears. (⇨ 23, "Video attribute")
Soundtrack: Select the type of audio or language. (⇨ 23, "Language", "Audio attribute")
▷ Secondary Video
Video: Select on/off of images.
                   The recording method of original video appears. (⇨ 23, "Video attribute")
Soundtrack: Select on/off of audio and the language. (⇨ 23, "Language", "Audio attribute")

Video
AVCHD
The recording method of original video appears.
(⇨ 23, "Video attribute")

Soundtrack
AVCHD DVD-V
Select the type of audio or language.
(⇨ 23, "Language", "Audio attribute")
DVD-VR MPEG2
The audio attributes appear. (⇨ 23, "Audio attribute")

Subtitle
BD-V AVCHD DVD-V
Turn the subtitle on/off and select the language.
(⇨ 23, "Language")
DVD-VR (Only discs that contain subtitle on/off information)
Turn the subtitle on/off.

Subtitle Style
BD-V
Select the subtitle style.

Audio channel
DVD-VR MPEG2
Select the audio channel number.
(⇨ 17, "Changing audio")

Angle
BD-V DVD-V
Select the number of the angle.

Some items may be changed only on the disc specific menu.
(⇨ 14)

Play

Repeat Play

(Only when the elapsed time is being displayed on the unit's display.)
Select the item which you want to repeat. The items displayed differ depending on the type of media.

▷ All tracks: All tracks
▷ Chapter: Chapter
▷ Playlists: Playlist
▷ Title: Title
▷ One track: Track
▷ Off

Select "Off" to cancel.

Random
CD **MP3**

While playing, press [▲, ▼] to select "On".
Random playback starts from the next track.

▷ On   ▷ Off

Video

Picture
BD-V **AVCHD** **DVD-VR** **DVD-V** **MPEG2**

Select the picture quality mode during play.

▷ Normal: Default setting
▷ Soft: Soft picture with smoother video
▷ Fine: Details are sharper
▷ Cinema: Mellows movies, enhances detail in dark scenes.
▷ User: You can make further adjustments. (⇨ below)

① Press [▶] to select "Picture Adjustment" and press [OK].
② Select the item using [▲, ▼] and adjust it with [◄, ▶].

Contrast: Increases the contrast between light and dark parts of the picture (-7 to $+7$).
Brightness: Brightens the picture (0 to $+15$).
Sharpness: Adjusts the sharpness of the edges of the horizontal lines (-6 to $+6$).
Color: Adjusts the shade of the picture's color (-7 to $+7$).
Gamma: Adjusts the brightness of dark portions of the screen (0 to $+5$).
3D NR: Reduces the rough noise in the background to give a greater feeling of depth (0 to $+4$).
Integrated NR: Smoothes block noise and reduces the smudging that appears around contrasting sections of the picture (0 to $+3$).

Progressive

Select the method of conversion for progressive output to suit the type of material being played (⇨ 33, "Film and video").

▷ Auto: Automatically detects the film and video content, and appropriately converts it.
▷ Video: Select when using "Auto" and the content is distorted.

Audio

Dialog Enhancer
BD-V **AVCHD** **DVD-VR** **DVD-V** **MPEG2** (3 channels or more only, including a center channel)

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

▷ On   ▷ Off

Language

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

Audio attribute

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

Video attribute

MPEG-2/MPEG-4 AVC/VC-1	Video recording method
480/576/720/1080	Video Format
24p/50i/60i/50p/60p	Video Frame rate
YCbCr4:2:2/YCbCr4:4:4/RGB	Color Space
bps (bit per second)	Transfer rate of bit

Changing the unit's settings

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

Setup menu operations

1 While stopped
Press [SETUP].

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

3 Press [▲, ▼] to select the item and press [OK].
If there are any other items, repeat these steps.

```
Setup
Disc
Video
Audio
Display
TV Aspect Setting
Others

        OK
        RETURN
```

4 Press [▲, ▼, ◄, ►] to select the option and press [OK].
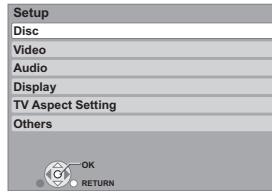
● There may be differences in operation methods. If this happens, follow the on-screen instructions for the operation.

To return to the previous screen
Press [RETURN].
To exit the screen
Press [SETUP] or [EXIT].

● Setup menu is also possible to display with the following procedures.
① While stopped, press [SUB MENU]
② Select "Other Functions" with [▲, ▼], and select [OK]
③ Select "Setup" with [▲, ▼], and select [OK]

About the password
The password of the following items are common.
Don't forget your password.
● "DVD-Video Ratings"
● "BD-Video Ratings"

Summary of settings

Underlined items are the factory presets.

Disc

DVD-Video Ratings
Set a ratings level to limit DVD-Video play.
Follow the on-screen instructions. Enter a 4-digit password with the numbered buttons when the password screen is shown.
▷ <u>8 No Limit</u>:
   All DVD-Video can be played.
▷ 1 to 7:
   Prohibits play of DVD-Video with corresponding ratings recorded on them.
▷ 0 Lock All:
   Prohibits play of all DVD-Video.
Changing settings (When level 0 to 7 is selected)
▷ Unlock Player   ▷ Change Password
▷ Change Level   ▷ Temporary Unlock

BD-Video Ratings
Set an age limit of BD-Video play.
Follow the on-screen instructions. Enter a 4-digit password with the numbered buttons when the password screen is shown.
▷ <u>No Limit</u>:
   All BD-Video can be played.
▷ Enter year(s):
   Prohibits play of BD-Video with corresponding ratings recorded on them.
▷ 0 to 21 year(s):
   Prohibits play of BD-Video with corresponding ratings recorded on them.
Changing settings (When 0 to 254 year(s) is selected)
▷ Unlock Player   ▷ Change Password
▷ Change Level   ▷ Temporary Unlock

Audio Language
Choose the language for audio.
BD-V **DVD-V**
● Some discs start in a certain language despite any changes you make here.
● When the selected language is not available on the disc, the default language is played. There are discs where you can only switch the language from the menu screen. (⇨ 14)
● Enter a code (⇨ 34) with the numbered buttons when you select "Other ✳✳✳✳".
▷ <u>English</u>   ▷ French   ▷ Spanish
▷ Original:
   The original language of each disc will be selected.
▷ Other ✳✳✳✳

Subtitle Language
Choose the language for subtitle.
BD-V **DVD-V**
● Some discs start in a certain language despite any changes you make here.
● When the selected language is not available on the disc, the default language is played. There are discs where you can only switch the language from the menu screen. (⇨ 14)
● Enter a code (⇨ 34) with the numbered buttons when you select "Other ✳✳✳✳".
▷ <u>Automatic</u>:
   If the language selected for "Audio Language" is not available, subtitles of that language will automatically appear if available on that disc.
▷ English   ▷ French   ▷ Spanish
▷ Other ✳✳✳✳

Menu Language
Choose the language for disc menus.
BD-V **DVD-V**
● Some discs start in a certain language despite any changes you make here.
● When the selected language is not available on the disc, the default language is played. There are discs where you can only switch the language from the menu screen. (⇨ 14)
● Enter a code (⇨ 34) with the numbered buttons when you select "Other ✳✳✳✳".
▷ <u>English</u>   ▷ French   ▷ Spanish
▷ Other ✳✳✳✳

Video

Still Mode (paused video)

BD-V **AVCHD** **DVD-V**

Select the type of picture shown when you pause playback
(⇨ 33, "Frames and fields").

▷ Auto:
Automatically selects the type of picture shown.

▷ Field:
Select if jittering occurs when "Auto" is selected. (The
picture is coarser.)

▷ Frame:
Select if small text or fine patterns cannot be seen clearly
when "Auto" is selected.
(The picture is clearer and finer.)

Seamless Play

DVD-VR

Select the play mode between playlist chapter segments and
partially deleted titles.

▷ On:
The chapters in playlists are played seamlessly. This does
not work while searching or when there are several audio
types included on the playlist. Additionally, the positioning
of chapter segments may change slightly.

▷ Off:
The points where chapters in playlists change are played
accurately, but the picture may freeze for a moment.

Audio

Dynamic Range Compression

BD-V **AVCHD** **DVD-V**

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.

▷ On   ▷ Off   ▷ Auto

Downmix

Switch the downmix system for playing back multi-channel
surround sound.

● The audio will be output in "Stereo" in the following cases:
  − AVCHD playback
  − Playback of secondary audio (including the button click
    sound)

▷ Stereo
▷ Surround encoded

Display

Status Messages

Choose whether to show status messages automatically.

▷ Automatic   ▷ Off

On-screen Language

Choose the language for these menus and on-screen
messages.

▷ English   ▷ Français   ▷ Español

Screen Saver Function

▷ On:
  − If there is no operation for 10 minutes or more, DIRECT
    NAVIGATOR screen switches to FUNCTION screen
    automatically.
  − While playing and pausing, etc., this function is not
    available.
  − As for Music (CD-DA, MP3), regardless of the setting, if
    there is no operation for 2 minutes, DIRECT
    NAVIGATOR screen switches to the other states
    automatically.
  − When playing the 4:3 image, the masked-off area on the
    screen become black.

▷ Off

License

Information about the software used by this unit is displayed.

TV Aspect Setting

TV Aspect

"TV Aspect" operates on the screen of the unit.

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

▷ 16:9 Full:
Video recorded for 4:3 aspect screen is displayed as a
horizontally stretched 16:9 image.

Others

Auto Power Off

Select whether the unit is automatically turned off when about
15 minutes (about 5 minutes when using the battery pack)
have elapsed while stopped.

▷ On
▷ Off:
Select when you do not want to use this function.

Quick Start

Speed of startup from power off is increased.
● Quick Start only functions when the AC adaptor is connected.

▷ On:
Since internal control unit will be powered, power
consumption in standby mode (⇨ 32) will increase in
comparison to when "Off".

▷ Off

Easy Setting

You can execute basic settings
("On-screen Language" and "Quick Start").

▷ Yes   ▷ No

Restore Default Settings

This returns all values in the Setup menu and the on-screen
menu, except for "On-screen Language", "DVD-Video Ratings"
and "BD-Video Ratings" to the default settings.

▷ Yes   ▷ No

System Information

Display firmware version of this unit.

Settings

VQT2H71

About MP3/JPEG/AVCHD/MPEG2 files

MP3

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

JPEG

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

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

AVCHD

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

● Discs must conform to UDF 2.5.

MPEG2

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

* SD-Video Entertainment Video Profile

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

Structure of folders that can be played in this unit

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

📁 : Folder which can be displayed with this unit
✳✳✳: Numbers
XXX: Letters
[1] ✳✳✳: from 001 to 999
[2] ✳✳✳: from 100 to 999
   XXXXX: 5 figures
[3] ✳✳✳✳: from 0001 to 9999
   XXXX: 4 figures

Structure of MP3 folders

in DVD-R/DVD-R DL/CD-R/CD-RW
Prefix the file names with 3-digit numbers in the order you want to play them.
e.g.,

```
Root
    001XXXX.mp3
    002XXXX.mp3
    Folder A
        003XXXX.mp3
        004XXXX.mp3
        005XXXX.mp3
        Folder B
            006XXXX.mp3
            007XXXX.mp3
            008XXXX.mp3
            009XXXX.mp3
    Folder C
        010XXXX.mp3
        011XXXX.mp3
        012XXXX.mp3
```
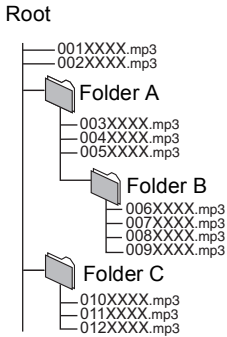
Structures of still picture (JPEG) folders

in DVD-R/DVD-R DL/CD-R/CD-RW
Files inside a folder are displayed in the order they were updated or taken.
e.g.,

```
Root
    P0000001.jpg
    P0000002.jpg
    Folder A
        P0000003.jpg
        P0000004.jpg
        P0000005.jpg
        Folder B
            P0000006.jpg
            P0000007.jpg
            P0000008.jpg
            P0000009.jpg
    Folder C
        P0000010.jpg
        P0000011.jpg
        P0000012.jpg
```
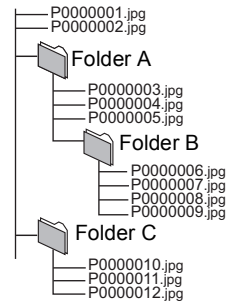
in BD-RE/DVD-RAM
● Folder structure is not displayed.
e.g.,

```
Root
    P0000001.jpg
    P0000002.jpg
    JPEG
        DCIM✳✳✳ [1]
            ✳✳✳XXXXX [2]
                XXXX✳✳✳✳.JPG [3]
    DCIM
        ✳✳✳XXXXX [2]
            XXXX✳✳✳✳.JPG [3]
```
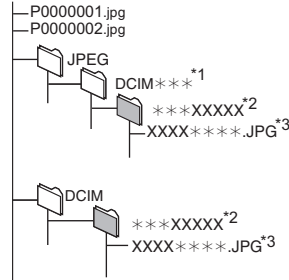
in SD card
Displays JPEG files in all folders.
● Folder structure is not displayed.
e.g.,

```
Root
    P0000001.jpg
    P0000002.jpg
    DCIM
        ✳✳✳XXXXX [2]
            XXXX✳✳✳✳.JPG [3]
    Folder A
        P0000003.jpg
        P0000004.jpg
```
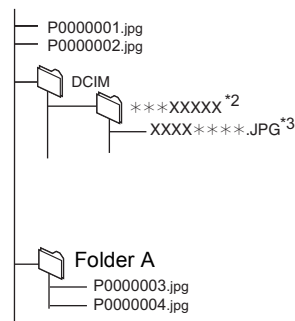
Indicators and screen messages

Indicators

The [⏻] indicator flashes rapidly.
➢ The unit has malfunctioned. Consult your dealer.

The [⏻] indicator and the [CHARGE] indicator flash rapidly.
➢ Update of the firmware did not complete successfully. Perform the update again. (⇨ 5)

The [CHARGE] indicator flashes rapidly.
➢ There is a problem with the battery pack. Turn the unit on and check the message on the LCD. (⇨ below)

The [CHARGE] indicator flashes slowly.
➢ Battery pack charge is low. The unit will turn off automatically after a few minutes.

Screen messages

Cannot read. Please check the disc.
➢ Clean the disc. (⇨ 5)
➢ You inserted a disc that has not been finalized. (⇨ 6)

▥▥▥ ERROR U580
➢ A problem has occurred with the battery pack. Consult your dealer.

▥▥▥ ERROR U581
➢ The battery pack has been recharging but has failed to recharge for some reason. Recharge again.

▥▥▥ ERROR U582
➢ You are recharging in a location that is too hot or too cold. Recharge at normal temperature [+5 to +35 °C (+41 to +95 °F)].

U77
➢ Video cannot be output since the copyright protection information on the BD-RE, BD-R, BD-Video or DVD Video being played back is not valid.

F □□
H □□
(□□ stands for a number.)
➢ A problem has occurred. (Numbers following the "F" or the "H" will be different depending on the status of the unit) Turn off the unit once, and turn it back on. Alternatively, turn off the unit, disconnect the AC adaptor and the battery pack, and attach them back again.

Cannot play.
➢ You inserted an incompatible disc (Discs recorded in PAL video, etc.). (⇨ 6)

Cannot display on this unit.
➢ You tried to play a non-compatible image. (⇨ 26)
➢ Re-insert the SD card.

No disc is inserted.
➢ The disc may be upside down.

⊘ This operation is not available.
➢ Some operations are unsupported by the unit. For example;
– **BD-V**: During playback, reverse slow-motion or reverse frame-by-frame is not possible.

⊘ This operation is prohibited by this disc.
➢ Depending on the disc, you may not be able to perform search or skip when film previews and warning screens are being played back.

Troubleshooting guide

Before requesting service, please perform the following steps.

Do you have the latest firmware installed?
Firmware updates may be released to correct operating irregularities that are discovered with certain movies. (⇨ 5)

▼

Make the following checks and visit our website for more information.
http://www2.panasonic.com/consumer-electronics/support/
Enter the model number.

▼

Even so, you still have trouble,

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

Other support information:
"Customer Services Directory" (⇨ 35)

The following do not indicate malfunction.
- Sound from the AC adaptor during recharging.
- The battery pack warming up when recharging or during use.
- The surface and area around the unit becoming warm when used for long periods.
  Move the unit after waiting for 3 minutes after unplugging the AC adaptor when it needs to be moved or maintained.
- Operating noises when the unit is turned on.

Safety devices may be operating when the unit does not respond to operations.
① Press [POWER ⏻/I] on the unit to turn it off.
   If the unit is not turned off, hold down for approximately 3 seconds to force the power off.
② Press [POWER ⏻/I] on the unit to turn it on.
   If operation is still not possible after performing the above operations, consult the dealer where the unit was purchased.

To reset this unit

To return all settings other than some settings to the factory preset.
➢ Select "Yes" in "Restore Default Settings" in the Setup menu. This returns all values in the Setup menu and the on-screen menu, except for "On-screen Language", "DVD-Video Ratings" and "BD-Video Ratings" to the default settings. (⇨ 25)

To return all settings to the factory preset
➢ Only when connecting the AC adaptor, reset the unit as follows:
① Press [POWER ⏻/I] on the unit to turn off the unit.
② Press and hold [POWER ⏻/I] and [⏎ RETURN] on the unit at the same time for more than 5 seconds.
③ The power will turn on and then turn off.

Power

No power.
➢ Check connections to the AC adaptor or battery pack. (⇨ 10)
➢ The unit has protection circuitry that is activated if it becomes too hot or too cold. The unit will not work if this occurs. Use the unit between 5 °C (41 °F) and 35 °C (95 °F).
➢ Hold down [POWER ⏻/I] for some time.
➢ The unit may not come on immediately after it is turned off. Once the "BYE" display disappears, press [POWER ⏻/I] and turn the unit on.
➢ The unit can be turned on only when the unit's screen is open. (⇨ 10)

Unit turns off automatically.
➢ The unit turns off after it has been stopped for about 15 minutes (about 5 minutes when the unit is powered by the battery pack) to conserve power (only when "Auto Power Off" in the Setup menu is set to "On"). (⇨ 25) Turn the unit on again.
➢ Press [OFF TIMER] and the unit will be turned off automatically. (⇨ 12)
➢ Safety devices may be operating. Press [POWER ⏻/I] and turn the unit on.
➢ If the screen is closed when the unit is turned on, the display on the screen will disappear and the unit will be automatically turned off. (⇨ 10)

Cannot charge or the [CHARGE] indicator fails to light.
➢ The charging time increases when the temperature is too hot or too cold, and charging may not be possible under some circumstances.
➢ Check connections to the AC adaptor or battery pack. (⇨ 10)

Play time dramatically reduced after recharging.
➢ The battery pack has reached the end of its service life (It can be recharged about 300 times).

Reference

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Operation

The unit is on but cannot be operated.
➢ The unit can be operated only when the LCD screen is open. (⇨ 10)
➢ Is the incorrect playback media or operation function selected?
➢ The unit may not be operating properly due to lightning, static electricity or some other external factor. Turn the unit off and then back to ON. Alternatively, turn the unit off, disconnect the power source (AC or battery pack), and then reconnect it.
➢ Condensation has formed. Wait 1 to 2 hours for it to evaporate.

Play fails to start even when [▶] (PLAY) is pressed.
Play starts but then stops immediately.
➢ Insert the media correctly with the label facing up. (⇨ 13)
➢ The media is dirty. (⇨ 5)
➢ You tried to play a blank media or unplayable media on this unit. (⇨ 6)

No response when remote control buttons pressed.
➢ The unit can be operated only when the LCD screen is open. (⇨ 10)
➢ Check that the battery is installed correctly. (⇨ 9)
➢ The battery is depleted: Replace it with new one. (⇨ 9)
➢ Point the remote control at the remote control sensor and operate. (⇨ 9)

Start up is slow.
It takes time before play starts.
➢ Make sure that "Quick Start" is set to "On". (⇨ 25)
➢ Start up takes time in the following situations.
  − Immediately after a power failure or the AC adaptor is connected.

Played back image is distorted or does not play back correctly. (AVCHD)
➢ High definition video (transfer rate of 18 Mbps or faster) cannot be played back correctly if it was recorded on a DVD compatible to double speed or slower.

LCD

No picture on the LCD.
➢ Check connections. (⇨ 10)

The LCD is dark.
➢ Select the appropriate picture quality mode. (⇨ 13)

LCD pixels turn black or radiate different colors.
➢ The LCD is constructed with precision technology so 99.99 % of the pixels are active, but of the remaining of 0.01 %, there are pixels that may be black or emit light constantly. This phenomenon is not a malfunction.

There is a lot of after-image when playing video.
➢ Turn "3D NR" or "Integrated NR" off if it is on. (⇨ 23)

A black band is displayed around the edge of the screen.
The aspect ratio of the screen is abnormal.
➢ Confirm the "TV Aspect" is set properly. (⇨ 25)

Still pictures (JPEG) do not play back normally.
➢ The images that were edited on the PC, such as Progressive JPEG, etc., may not play back. (⇨ 26)

Sound

No sound from the unit's speaker.
➢ The speaker is off if headphones are connected.
➢ Turn up the volume. (⇨ 14)

Cannot hear the desired audio type.
➢ Press [AUDIO] to select the audio. (⇨ 17)

Cannot switch audio.
➢ There are discs for which audio cannot be changed because of how the disc was created.

Card

Music on an SD card cannot be played.
➢ Data that can be played from an SD card are AVCHD, MPEG2 and JPEG data. (⇨ 7)

The contents of the card cannot be read.
➢ The card is not compatible or the contents on the card may be damaged. (⇨ 7)
➢ Turn off and then turn on the unit again.

Other difficulties with playback

Audio and video momentarily pause.
➢ This occurs between playlist chapters or scenes (**AVCHD**).
➢ When playing a title recorded on both layers, the unit automatically switches between layers and plays the title in the same way as a normal program. However, video and audio may momentarily cut out when the unit is switching layers.

BD-Video or DVD-Video is not played.
➢ Ensure the disc is for the correct BD-Video region code or DVD-Video region number, and is not defective. (⇨ cover)
➢ You have set a ratings level to limit BD-Video or DVD-Video play. Change this setting. (⇨ 24)

Picture-in-picture is not played with BD-Video.
➢ Confirm whether the disc supports picture-in-picture.

Alternative soundtrack and subtitles cannot be selected.
➢ The languages are not recorded on the media.
➢ You may not be able to use the on-screen menu to change the soundtrack and subtitles on some discs. Use the disc's menus to make changes. (⇨ 14)

No subtitles.
➢ Subtitles are not recorded on the media.
➢ Turn the subtitles on. Set "Subtitle" on the on-screen menu to "On". (⇨ 22)

Angle cannot be changed.
➢ Angles can only be changed during scenes where different angles are recorded.

The resume play function does not work.
➢ The memorized position is cleared in the following instances:
  − [■] is pressed several times.
  − The disc or SD card is removed.
  − The unit is turned off during SD card playback.
  − The unit is turned off due to such occurrences as power outage, the removal of the AC adaptor or waste of the battery pack's remaining power when the unit is turned on.
➢ The resume play function may not work depending on the media.
➢ **BD-V**: On BD-Video discs including BD-J, the resume play function does not work.

You have forgotten your ratings password.
➢ While the disc and SD card are removed, press and hold [|◄◄] (SKIP) and [SUB MENU S] on the unit at the same time for more than 5 seconds. Turn the unit off. "DVD-Video Ratings" and "BD-Video Ratings" will return to the default settings.

When a recorder or player etc. is operated with a remote control, the unit is also simultaneously operated.
When the unit's remote control is operated, other Panasonic recorders or players etc. are also simultaneously operated.
➢ Change the remote control codes on the Panasonic recorders or players.

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Specifications

Power supply: DC 12 V (DC IN terminal)/ DC 7.2 V (Exclusive battery terminal)

Power consumption (using included AC adaptor):
Play Mode: Approx. 18 W (Unit only Approx. 15.5 W)
Recharge mode (Quick Start "Off"): Approx. 18 W
Recharge mode (Quick Start "On"): Approx. 22 W
Standby mode (Quick Start "Off"): Approx. 0.5 W
Standby mode (Quick Start "On"): Approx. 5 W

AC adaptor:
Power source: AC 110 to 240 V, 50/60 Hz
Power consumption: 36 W
DC output: 12 V, 2000 mA

Car DC Adaptor:
DC output: 12 V, 2 A (Vehicle with 12 V battery only)

Battery pack (lithium ion): DY-DB30 (included)
Voltage: 7.2 V
Capacity (Minimum): 5400 mAh

Dimensions (W×D×H)
(excluding protrusions and battery):
238 mm (W)×188.3 mm (D)×52.7 mm (H)
$(9\,^3/_8'' \times 7\,^{13}/_{32}'' \times 2\,^1/_{16}'')$

Mass (Weight):
(including battery) Approx. 1392 g (49.10 oz)
(without battery) Approx. 1157 g (40.81 oz)

Operating temperature range: +5 to +35 °C (+41 to +95 °F)

Operating humidity range: 10 to 80 % RH (no condensation)

LCD screen:
8.9″ α-Si, TFT wide-screen LCD (1024×600×RGB)

Speaker:
Output: 0.5 W + 0.5 W (8 Ω)

Headphone output:
Output: φ 3.5 mm (1/8″) stereo mini jack
Number of terminals: 1 system

Pickup:
Wave length:
405 nm/660 nm/780 nm (BD/DVD/CD)
Laser power:
CLASS II/CLASS II/CLASS I (BD/DVD/CD)

Playable disc:
BD-Video
BD-ROM: Version 2
BD-RE: Version 3 (Single Layer, Dual Layer), JPEG
BD-R: Version 2 (Single Layer, Dual Layer)
DVD-RAM: DVD Video Recording format[7], AVCHD format, JPEG
DVD-R/DVD-R DL: DVD-Video format[1], DVD-Video Recording format[1,7], AVCHD format[1], JPEG[2], MP3[2]
DVD-RW: DVD-Video format[1], DVD-Video Recording format[1,7], AVCHD format[1]
+R/+RW/+R DL: Video[1], AVCHD format[1]
DVD-Video: DVD-Video format
CD-Audio: CD-DA
CD-R/CD-RW: CD-DA, JPEG[2], MP3[2]

SD card:
SD Memory Card[3] formatted FAT12, FAT16, FAT32[4], exFAT[6]: JPEG, AVCHD format, MPEG-2

JPEG[5]:
Pixels: 34 × 34 to 8192 × 8192
Sub Sampling: 4:2:2, 4:2:0
Maximum numbers of folders
● CD-R, CD-RW: 99
● BD-RE, DVD-RAM, DVD-R, DVD-R DL, SD card: 300
Maximum numbers of files
● CD-R, CD-RW: 999
● BD-RE: 9999
● DVD-RAM, DVD-R, DVD-R DL, SD card: 3000

MP3:
Compression rate: 32 kbps to 320 kbps
Sampling rate: 44.1 kHz, 48 kHz

AVCHD (H.264):
File format: AVCHD format V1.0

Specifications are subject to change without notice.

[1] Finalizing is necessary.
[2] ISO9660 level 1 or 2 (except for extended formats),Joliet
This unit is compatible with multi-session.
This unit is not compatible with packet writing.
[3] includes SDHC, SDXC card
includes miniSD Card (need a miniSD Adaptor.)
includes microSD/microSDHC Card (need a microSD Adaptor.)
[4] Not support long file name
[5] Motion JPEG not supported
[6] SDXC only
[7] CPRM is not supported.

● Useable capacity will be less. (SD Card)

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Glossary

AVCHD

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

BD-J

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

Bitstream

This is the digital form of multi-channel audio data (e.g., 5.1 channel) before it is decoded into its various channels.

BONUSVIEW (Final Standard Profile)

This is a BD-Video (BD-ROM Profile 1 version 1.1) that supports the new functions such as Picture-in-picture and Secondary Audio, etc.

Dolby Digital

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

Dolby Digital Plus

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

Dolby TrueHD

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

Down-mixing

This is the process of remixing the multi-channel audio found on some discs into fewer channels.

DTS (Digital Theater Systems)

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

DTS-HD

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

DTS-HD High Resolution Audio

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

DTS-HD Master Audio

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

Dynamic range

Dynamic range is the difference between the lowest level of sound that can be heard above the noise of the equipment and the highest level of sound before distortion occurs.
Dynamic range compression means reducing the gap between the loudest and softest sounds. This means you can listen at low volumes but still hear dialog clearly.

Film and video

DVD-Video are recorded using either film or video. This unit can determine which type has been used, then uses the most suitable method of progressive output.

Film: Recorded at 24 frames per second. (Recorded at 30 frames per second as well). Generally appropriate for motion picture films.

Video: Recorded at 30 frames/60 fields per second. Generally appropriate for TV drama programs or animation.

Folder

This is a place on the disc or SD card where groups of data are stored together. Additional folders can be created within folders, and you can make detailed classifications depending on the folder structure. (⇨ 27)

Frames and fields

Frames refer to the single images that constitute the video you see on your television. Each frame consists of two fields.

Frame   **Field**   **Field**
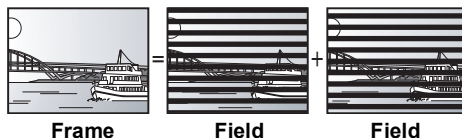
- A frame still shows two fields, so there may be some blurring, but picture quality is generally better.
- A field still shows less picture information so it may be rougher, but there is no blurring.

JPEG (Joint Photographic Experts Group)

This is a system used for compressing/decoding color still pictures. If you select JPEG as the storage system on digital cameras, etc., the data will be compressed to 1/10–1/100 of its original size. The benefit of JPEG is less deterioration in picture quality considering the degree of compression.

LPCM (Linear PCM)

This is a type of PCM format.
These are uncompressed digital signals, similar to those found on CDs.

MPEG2 (Moving Picture Experts Group)

A standard for efficiently compressing and expanding color video.
MPEG2 is a compression standard used for DVD and satellite based digital broadcasting.

MP3 (MPEG Audio Layer 3)

An audio compression method that compresses audio to approximately one tenth of its size without any significant loss of audio quality.

PCM (Pulse Code Modulation)

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

Picture-in-picture

This is a function of BD-Video that plays the primary video and secondary video simultaneously. For instance, the function is capable of playing the original movie as the primary video while playing video commentary from the film director on a small screen as a secondary video.

Sampling frequency

Sampling is the process of converting the heights of sound wave (analog signal) samples taken at set periods into digits (digital encoding). Sampling frequency is the number of samples taken per second, so larger numbers mean more faithful reproduction of the original sound.

x.v.Color™

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

Reference

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U.S. Patent Nos. 6,836,549; 6,381,747; 7,050,698; 6,516,132; and 5,583,936.

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Contact Information
cdrequest@am-linux.jp

Source code is also freely available to you and any other member of the public via our website below.
http://www.am-linux.jp/dl/JPRCBW98

Language code list
Enter the code with the numbered buttons.

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

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Limited Warranty

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

Panasonic Blu-ray and DVD Products
Limited Warranty

Limited Warranty Coverage

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

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

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

Mail-In Service

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

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

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

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

Limited Warranty Limits And Exclusions

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

modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Service Center or other Authorized Servicer, or damage that is attributable to acts of God.
THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE".
THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY.
(As examples, this excludes damages for lost time, travel to and from the servicer, loss of or damage to media or images, data or other memory or recorded content. The items listed are not exclusive, but for illustration only.)
ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.
Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.
This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Service Center. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.
PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

Customer Services Directory

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Service Center; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:
http://www.panasonic.com/help
or, contact us via the web at:
http://www.panasonic.com/contactinfo
You may also contact us directly at:
1-800-211-PANA (7262)
Monday-Friday 9am-9pm, Saturday-Sunday 10am-7pm EST

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

Accessory Purchases

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at:
http://www.pstc.panasonic.com
Or, send your request by E-mail to:
npcparts@us.panasonic.com
You may also contact us directly at:
1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only)
(Monday-Friday 9am-9pm EST)
Panasonic Service and Technology Company
20421 84th Avenue South, Kent, WA 98032
(We accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

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

As of November 2009

User memo:

```
DATE OF PURCHASE_____
DEALER NAME _____
DEALER ADDRESS _____
_____
TELEPHONE NUMBER_____
```

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

MODEL NUMBER _____ DMP-B100 _____
SERIAL NUMBER _____

Reference

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Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.
If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

(En)

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F1209QK0

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