

HOME ENTERTAINMENT SERVER HES-V1000

SONY

HOME ENTERTAINMENT SERVER



http://www.sony.net/





HES-V1000 Operating Instructions



WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Batteries or batteries installed apparatus shall not be exposed to excessive heat such as sunshine, fire or the like.

CAUTION

The use of optical instruments with this product will increase eye hazard. As the laser beam used in this unit is harmful to eyes, do not attempt to disassemble the cabinet.

Refer servicing to qualified personnel only.

CAUTION	CLASS 38 VISIBLE AND INVISIBLE LASER RADIATION
	WHEN OPEN, AVOID EXPOSURE TO THE BEAM.
ATTENTION	RADIATIONS LASER VISIBLES ET INVISIBLES DE CLASSE 3B
	UDAND OUVERT, EVITEZ TOUT EXPOSITION AD HAISCEAD.
ADVARSEL	KLASSE 3B SYNLIS OG USYNLIG LASERSTRALING VED ABNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARNING	KLASS 38 SYNLIG OCH OSYNLIG LASERSTRÄLMING NÄR DENNA
	DEL AR OPPNAD. UNDVIK ATT UTSATTA DIG FOR STRALEN.
VORSICHT	BEI GEOFFNETER ABDECKUNG IST SICHTBARE UND UNSICHTBARE
	LASERSTRAPILUNG DER KLASSE 38 IM GERATERNEREN
	VORHANDER, NICHT DEM LASERSTRAHL AUSSETZER!
PRECAUCION	CUANDO SE ABRE HAY RADIACIÓN LASER DE CLASE 3B VISIBLE
	E INVISIBLE, EVITE DA EXPOSICIÓN A LOS HAYOS DASER.
VARU!	AVALIAESSA OLET ALTTINA NAKYVALLE JA
	NAKYMATTUMALLE LUUKAN 38 LÄSERSÄTELVLLE.
	ALA MAISU SATEESEEN.
注意 ここ	.を開くとCLASS 3Bの可視レーザ光及び不可視レーザ
光力	出ます。ビームを直接見たり、触れたりしないこと。

This label is located on the laser protective housing inside the enclosure.





This symbol 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.



user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

This symbol is intended to alert the

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.



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.

Shielded network cable must be used between network hub and client in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

For customers in the U.S.A

If you have any questions about this product, call "Home Entertainment Server" Customer Call Center at 1-877-531-SONY (7669) or visit our web site at http://www.sony.com/hesupport The number below is for FCC related matters only.

Regulatory Information

Declaration of Conf	ormity
Trade Name:	SONY
Model No. :	HES-V1000
Responsible Party :	Sony Electronics Inc.
Address :	16530 Via Esprillo, San Diego, CA 92127 U.S.A.
Telephone No.:	858-942-2230

This device complies with Part15 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.

Owner's Record

The model and serial numbers are located at the rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. HES-V1000 Serial No._____

Important Safety Instructions

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



- 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.

Precautions

On safety

- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Do not hang anything on the unit. The unit may fall over, causing damage or serious injury.
- Do not allow children to climb on the server.



On power sources

- The unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- If you are not going to use the unit for a long time, be sure to disconnect the unit from the wall outlet. To disconnect the AC power cord, grasp the plug itself; never pull the cord.
- This unit is for use only with 120 V AC power source.
- Check the polarity when inserting batteries.

On placement

• Place the unit in a horizontally flat position.



Equal to or less than 1 inch.

- The unit is designed to be operated in a horizontal position only. Install in an upright position on a flat surface with no more than 2 degrees tilt in any direction. Weight a thread and drop it from the edge of the top panel, and securely install the unit so the distance from the weight to the unit bottom is kept within 1 inch. If the unit is inclined, remove the obstruction or insert a thin plate, etc, so the unit is stabilized horizontally. And then check that the unit is flat and secured.
- If place at an incline, the disc changer may not work properly and may cause a malfunction.
- Place the unit in a location with adequate ventilation to prevent heat build-up in the server.
- Do not place the unit on a soft surface such as a rug.
- Place the unit at least 12 inches from the wall.
- Distance from the glass panels to the wall should be 1/2 inch or more.
- Do not place the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock.
- Keep the unit and the discs away from equipment with strong magnets, such as microwave ovens, or large loudspeakers.
- Do not place heavy objects on the unit.
- Install this unit so that the power cord can be unplugged from the wall socket immediately in the event of trouble.
- Do not place objects near the buttons on the top panel which may cause the unit to malfunction.
- To avoid tipping over and resulting injuries, take precautions such as securing the unit with anti tip-over device. See *page 23* for details.
- When moving the unit, detach the glass panels and grasp the handles on the sides. Be sure to move it with two persons or more.
- Do not install this equipment in a confined space such as a bookshelf or similar unit.
- Do not block the ventilation hole, which will cause a malfunction.

On connection

• Do not connect a phone line to the Ethernet connector on the unit.

Moisture and flammable objects

- Do not place any objects on the unit. The unit should not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the unit. If any liquid or solid object falls through openings in the cabinet, do not operate the unit. It may result in electric shock or damage to the unit. Have it checked immediately by
- Have it checked immediately by qualified service personnel.
- To prevent fire, keep flammable objects (candles, etc.) and electric bulbs away from the unit.



On operation

- If the unit is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses and mechanism inside the unit. Should this occur, the unit may not operate properly. If this happens during disc playback, remove the disc, turn off the unit, and disconnect the power cord. Then leave the unit for about six hours so the moisture inside the unit evaporates.
- When you move the unit, take out any discs. If you don't, the disc may be damaged.
- Do not manually open or apply pressure to the front panel, which may cause a malfunction.
- To prevent any interference by children, use the Child Lock function (*page 12*).
- Do not apply pressure or shock to the unit, and do not move the unit while operating to avoid a malfunction.

On adjusting volume

Do not turn up the volume while listening to a section with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level section is played.

On cleaning

- Use the supplied cleaning cloth for cleaning minor blurs. If the blur is persistent, use another cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.
- To avoid malfunctioning, disconnect the power cord when cleaning.

Notes about using the supplied cleaning cloth

- Make sure the cloth is not dusty before use.
- Use the cloth only if it is dry. The material is not designed for use when wet.
- When the cloth becomes dirty, wash it in cold water.

On cleaning discs, disc/lens cleaners

Do not use cleaning discs or disc/lens cleaners (including wet or spray types). These may cause the apparatus to malfunction.

On replacement of parts

In the events that this unit is repaired, repaired parts may be collected for reuse or recycling purposes.

IMPORTANT NOTICE

Caution: This unit is capable of holding a still video image or on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time you risk permanent damage to your television screen. Plasma display panel televisions and projection televisions are susceptible to this.

About the glass parts on the unit

Glass is used for the front, top, and side panels of the unit. Observe the following and handle with care. If broken, the glass pieces will scatter and will pose a danger.

- Do not expose the unit to strong shocks such as a tip-over or dropping objects.
- Do not scrape the unit with a sharp object. The scratch may cause the glass to break.
- Be careful when attaching or detaching the glass panels. To attach or detach the glass panels, see *page 19*.

Notes On Disc Handling

• To keep the disc clean, handle the disc by its edge. Do not touch the surface.



- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature may rise considerably inside the car.
- After ejecting a disc from the server, store the disc in its case.
- Clean the disc with a cleaning cloth. Wipe the disc from the center out.



- Do not use solvents such as benzine, thinner, commercially available disc/ lens cleaners, or anti-static spray intended for vinyl LPs.
- If you have printed the disc's label, dry the label before playing.
- Do not attach a sticker type label on the disc. The disc changer may be damaged.



- Do not insert the following unsupported discs, doing so will damage the unit or discs.
 - -Discs whose shapes are nonstandardsized or nonstandard-shaped. (card, heart, star, etc.).
 - -Discs with a paper sticker or seals.
- -Discs with a cellophane tape, or an adhesive residue of a removed label.
- -Discs of non-standard thickness (thinner than 1.0 mm, or thicker than 1.5 mm).

Notes about discs

- "Photo Movies" created on digital camcorders cannot be edited on this server.
- You cannot mix VR mode and Video mode on the same DVD-RW. To change the disc's format, reformat the disc (*page 93*). Note that the disc's contents will be erased after reformatting. DVD-Rs (VR mode) cannot be reformatted.

- It is recommended that you use discs with "For Video" printed on their packaging.
- You cannot record or edit DVD-Rs (Video mode), or DVD-RWs (Video mode) recorded on other DVD devices.
- You may not be able to record or edit the following discs if they have been recorded on other devices:
- -BD-REs and BD-Rs.
- DVD+RWs/DVD+Rs recorded in
 +VR mode, or recorded on a device that displays +R/+RW logos.
- DVD-RWs/DVD-Rs recorded in VR mode.
- If record on a DVD+RW that has recordings made on other devices, the server may rewrite its DVD Menu.
- When playing dual layer discs the picture and sound may be momentarily interrupted when the layers switch.
- Use of discs containing data recorded on PCs is not guaranteed. The data may be erased after use.
- When you plan to copy photos to a DVD, use an unformatted DVD-R, DVD+R, DVD-RW, or DVD+RW.
 BD-REs and BD-Rs can be used even when they are formatted.
- Some recorded BD-REs/BD-Rs or DVD+RWs/DVD+Rs, DVD-RWs/ DVD-Rs/DVD-RAMs, or CD-RWs/ CD-Rs may not play on this server due to the recording quality or physical condition of the disc, or the characteristics of the recording device and authoring software. And except for DVD-RWs (VR mode), the disc will not play if it has not been correctly finalized. For more information, see the operating instructions for the recording device.
- This product is designed to play back discs that conform to the Compact Disc (CD) standard.

Recently, various music discs encoded with copyright protection technologies are being marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

- The server's Disc Information display may not correctly reflect information if the disc is recorded on other devices.
- The server does not support the BDMV format (one of the Blu-ray DiscTM specifications). You cannot playback or import BDMV format content edited on PCs, or copy such content from the HDD to a disc.
- The server does not support BD-ROM content that requires Internet connection.

About recording and playback

• DVD-RWs (VR mode)/DVD-Rs (VR mode) recorded on this server are playable only on a DVD-RW (VR

mode)/DVD-R (VR mode) compatible players.

- Before recording important data, make a trial recording on rewritable media such as a BD-RE, DVD-RW, or the HDD.
- Ver.1.0 BD-RE discs are not supported
- Ver.2.1 BD-RE and Ver.1.1 BD-R discs are played only their first layers.

Notes on DualDiscs

- A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed. And, some discs cannot be inserted into the server.
- Do not use DualDiscs. The disc may be damaged if inserted.

Notes About This Server

If you have any questions about this product, call "Home Entertainment Server" Customer Call Center at 1-877-531-SONY (7669).

About the hard disk drive

The hard disk has a high storage density, which enables long recording durations and quick access to the written data. However, it can easily be damaged by shock, vibration or dust, and should be kept away from magnets. To avoid losing important data, observe the following precautions.

- Do not apply a strong shock to the unit.
- Do not place the unit in a location subject to mechanical vibrations or in an unstable location.
- Do not place the unit on top of a hot surface, such as a VCR or amplifier (receiver).
- Do not use the unit in a place subject to extreme changes in temperature (temperature gradient less than 75 F° (10 °C)/hour).
- Do not move the unit with its AC power cord connected.
- Do not disconnect the AC power cord while the power is on.
- When disconnecting the AC power cord, turn off the power and make sure that the hard disk drive is not operating (the clock is displayed in the front panel display and all recording, copying, or importing has stopped).
- Do not move the unit for one minute after you have unplugged the AC power cord.
- Do not attempt to replace or upgrade the hard disk by yourself, as this may result in malfunction.

If the hard disk drive should malfunction, you cannot recover lost data. The hard disk drive is only a temporary storage space.

About repairing the hard disk drive

- The contents of the hard disk drive may be checked in case of repair or inspection during a malfunction or modification. However, the contents will not be backed up or saved by Sony.
- If the hard disk needs to be formatted or replaced, it will be done at the discretion of Sony. All contents of the hard disk drive will be erased, including contents that violate copyright laws.

On recording

Make trial recordings before making the actual recording.

On compensation for lost recordings

Sony is not liable and will not compensate for any lost recordings or related losses, including when recordings are not made due to reasons including recorder failure, or when the contents of a recording are lost or damaged as a result of recorder failure or repair undertaken to the recorder. Sony will not restore, recover, or replicate the recorded contents under any circumstances.

Copyrights

- Television programs, films, video tapes, discs, and other materials may be copyrighted. Unauthorized recording of such material may be contrary to the provisions of the copyright laws. Also, use of this recorder with cable television transmission may require authorization from the cable television transmitter and/or program owner.
- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Copy guard function

Since the unit has a copy guard function, programs received through an external tuner (not supplied) may contain copy protection signals (copy guard function) and as such may not be recordable, depending on the type of signal.

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Home Menu Overview





Basic button operations



See page 15 for explanations about the other buttons.

Main Features

Your family movies, memories, videos, and music, all in one.

200 discs BD/DVD/CD changer

Holds up to 200 disc*¹ Blu-ray Disc media, DVDs, and CDs. Provides full HD 1080p picture quality.



Easy disc copy to BD

Easily copy discs for personal videos. Holds up to 25 GB of data for rewritable Blu-ray Disc media.



★ x-Application

Create original personal movies from your photo collection using "ス x-Pict Story HD", or explore your memories in a digital scrapbook using "ス x-ScrapBook".



Music in multiple rooms

Enjoy music in multiple rooms with a wireless audio system. It's great for parties.



New Experience GUI "XMB"

Sony's Emmy award winning Xross Media Bar, along with AMG All Media Guide® metadata Technology. Lets you quickly find and enjoy all of your content.



500 GB hard disk drive

A 500 GB hard disk drive lets you store up to 137 hours of video*², 2,000 CDs, or 20,000 pictures.

HDMI digital interface

HDMI(High Definition Multimedia Interface) is smart, easy, high-quality way to connect to your HDTV sets, AV amplifiers and monitors.

HDMI carries both the digital video and digital audio signals over a single cable.

You can be sure that the highest quality signals are passing between source components and displays in your system.

HDMI Control ('BRAVIA' Theatre Sync)

'BRAVIA' Theatre Sync Function makes operations simple by connecting Sony components that are compatible with the HDMI Control function with an HDMI cable.

^{*1} For 12 cm discs, up to 196 can be loaded; for 8 cm discs, up to 4.

^{*2} When recorded in SR mode.

About This Manual

- In this manual, the internal hard disk drive is written as "HDD," and "disc" is used as a general reference for the HDD, BDs, DVDs, or CDs unless otherwise specified by the text or illustrations.
- Instructions in this manual describe the controls using the displays or the remote. You can also use the controls on the unit if they have the same or similar names as those on the remote.
- The on-screen display illustrations used in this manual may not match the graphics displayed on your TV screen.
- The product names, brand names, service names, etc., used in this document are trademarks or registered trademarks of respective companies or organizations.

About media icons

The following media icons are used within the manual to indicate the function availability.

See page 148 for details about usable discs and their limitations.

Disc Type	Disc Icon
HDD (internal hard disc drive)	HDD
BD-ROM	BD
BD-RE	BD-RE
BD-R	BD-R
DVD VIDEO	DVD
DVD+RW	+RW
DVD-RW (VR mode/Video mode)	-RWVR -RW _{Video}
DVD+R/DVD+R DL	+R
DVD-R (VR mode/Video mode)	-RvR -Rvideo
DVD-RAM	RAM
DATA DVD	DATA DVD
Discs containing AVCHD files	AVCHD
Music CD	CD
DATA CD	DATA CD
Memory Stick	M.S.
CompactFlash [®] card	CF
SD memory Card	SD
xD-Picture card [™]	xD

Index to Parts and Controls

Buttons on the remote and the unit have the same function if they have the same or similar name. For details, see the pages in parentheses.

Top panel



- **1** Retractable input and control panel indicator
 - Lights up when the control panel is open.
- **2** Retractable input and control panel
 - This can be opened or closed when pressed from the rear of the server.
- $3 \uparrow \downarrow \leftarrow \rightarrow buttons$
- 4 LINE IN 2 (\$ VIDEO, VIDEO, AUDIO L/R (monaural)) jacks

 These jacks are recommended for temporary connections to camcorders, etc.

- 5 HDV 1080i/DV IN jack (i.LINK jack) *(39)*
- 6 RETURN button (9, 103)
- **7** OPTION button (9, 55)
- 8 HOME button (8)
- 9 ENTER button (15, 103)
- 10 **(**play) button *(69)*
- **11** (stop) button (73)
 - You can lock or unlock the front panel by pressing down this button for more than 10 seconds when the panel is closed (Child Lock). Note that this will not work if the button is pressed when the panel is open.

- 12 Image / Image in the second second
- 13 (music play) button (70)
- 14 IMPORT SELECT button (40, 42)
 - Selects a source for import.
- 15 IMPORT button (40, 42)
- 16 Top panel display (14)
 - Even when you turn on the top panel display by pressing CONTROL ON/OFF, the display will switch to the front panel display if you do not operate for more than 60 seconds.
- 17 I/() (power) button (28)

18 Memory Stick/CF/SD/xD-Picture Card indicators

 All indicators light up when the front panel slides downward, exposing the card slots. Only the indicators for the inserted memory cards remain lit after the panel is closed.

19 CONTROL ON/OFF button

 Locks the buttons on the server unit, switching the top and the front panel displays.

ີ່ 🐺 Hint

Listed as 10 to 15 are the buttons operable only when they are lit. To turn these buttons on and off, press CONTROL ON/OFF.

Front panel



1 Memory Stick slot (36)

2 CF slot (36)

- CompactFlash[®] slot

3 SD slot (36)

- SD memory Card slot

4 xD-Picture Card slot (36)

- xD-Picture CardTM slot

5 Memory Stick/CF/SD/xD-Picture Card LED indicators

- Lights up when the memory cards are inserted, and keeps flashing when the cards are being accessed.
 Do not eject the cards while the indicator is flashing.
- 6 MEMORY CARD OPEN/CLOSE button (for card slot) (36)
- 7 Front panel display (14, 116)
- 8 Remote sensor (27)
- 9 \triangleq (Disc tray OPEN/CLOSE) button (32)

10 DISC OPEN/CLOSE button (for disc tray) (32)

11 Busy LED indicator

- The disc tray does not respond even if you press when this is lit.
- 12 Disc tray (32)

Top panel display/front panel display

The top and front panel displays are identical and show the same contents.



1 Playback status (Play/Pause)

2 Copy indicator

Lights up while copying to a disc.

3 Line

 Lights up when the source is the input from the LINE IN jacks.

4 Disc

- Lights up when the source is a disc.

5 HDV/DV

 Lights up when the source is the input from the HDV/DV IN jack.

6 Memory card

 Lights up when the source is a memory card.

7 Import indicator

- Lights up while importing to the HDD.

8 Network connection indicator

 Lights up when network communication is occurring.

9 Main display

 Displays the following information: Title/track number
 Elapsed playback time/ remaining time
 Current time and other messages.

ີ່ 🐺 Hint

You can change the brightness of the front panel display by pressing DIMMER or by using the [Brightness of Front Panel] in [System Settings] (*page 116*).

Rear panel



- 8 Ventilation holes
 - Do not block the ventilation holes, which will cause a malfunction.

14

4 HDMI OUT jack (102)

VIDEO) jacks (40)

5 LINE IN 1 (AUDIO L/R, VIDEO, S

Remote



* Use the tactile dot as a reference when operating the server.

A For startup operations

OPENCLOSE : ▲OPEN/CLOSE button (32)

- Switches the input source.

 $\overset{\text{AV I}^{\prime \cup}}{\bigcirc}$: AV I/ $\overset{\text{I}}{\cup}$ (power) button (126)

 $\overset{\prime\prime\circ}{\bigcirc}$: I/ $\overset{\circ}{\cup}$ (power) button *(28)*

RM SET UP (remote setup) button (126)

MACRO 1 – MACRO 3 : MACRO (1/2/3) buttons *(130)*

B For entering numbers

(0) – (9): Number buttons* (90, 118, 126)

🗐 : SET button *(90, 129)*

^{CLEAR}⊙: CLEAR button *(90, 129)*

\fbox{C} For device selection

SERVER button (126)

AMP (amplifier) button (126)

SATICABLE : SAT/CABLE button (126)

CR button (126)

CUSTOM button (126)

D For BD/DVD operations

TOP MENU button (55)

POP UP/MENU button
(55)

E For selecting devices/ menu items

 Short cut keys for selecting items on some BD's menus (can also be used for BD's Java interactive operations).

 Image: Participation of the state of th

F For display operations

Press HOME to enter the server's start menu (Home Menu) and use the Joystick to operate. 'Select' the displayed item by tilting the Joystick ←→↑↓ and then press it down to 'ENTER.'



🕀 : Joystick *(9)*

: OPTIONS button (9)

(: RETURN button (9)

: DISPLAY button (73)

E DIMMER button (14)

G For other viewing

PLAY
► (play) button* (69)

STOP ■ : ■ (stop) button (58, 73)

PAUSE : **II** (pause) button *(58, 73)*

(58)

PREV / ↔ : I ← PREV (previous)/►►INEXT buttons (58, 73)

 Skips to the previous/next chapter, track, or file.

REPLAY ADVANCE ↔ Instant Replay/ •→ Instant Advance button

 Replays or briefly fast forwards a scene.

III/<I/<</p> III/<I/<</p> FastReverse/Scan/Slow play button (58, 73)

 Fast reverses when pressed during playback.
 Plays in slow motion backwards when pressed in pause mode.
 The speed changes when pressed repeatedly.

Image: ►►/I►/II► Fast-Forward/Scan/Slow play button (58, 73)

 Fast forwards when pressed during playback.
 Plays in slow motion when

→ continued

pressed in pause mode. The speed changes when pressed repeatedly.

$\stackrel{\rm CH}{\vdash}$ / \bigcirc : CH (channel) +/-* buttons

- Selects the TV channels up and down.

$\stackrel{\text{VOL}}{+}$ / \bigcirc : VOL (volume) +/– buttons

– Adjusts the volume.

MUTING : MUTING button

– Mutes the sound.

$[\ensuremath{\textbf{H}}]$ For video title options

MARK / ERASE : CHAPTER MARK (MARK/ERASE) buttons (81)

import : IMPORT button (40, 42)

 Performs the same function as the IMPORT button on the top panel.

AUDIO : AUDIO button*

- Selects the sound track or the language track.

SUBTITLE : SUBTITLE button

- Selects the subtitle language.

ANGLE : ANGLE button

- Switches to other viewing angles when available.

$\overset{\text{\tiny{TIME}}}{\longrightarrow}$: TIME button

 Switches the panel display to show elapsed playback time or remaining time.

Step-by-step Instructions

Getting Started

Follow steps 1 to 8 to hook up and adjust the settings of the server.

For jack and button names, see "Index to Parts and Controls" (page 12).

Notes

- Plug cables securely to prevent unwanted noise.
- Refer to the instructions supplied with the components to be connected.
- A TV with a video input jack is required to connect to this server.
- Be sure to disconnect the power cord of each component before connecting.
- To avoid electrical damage to the server and the external devices, do not apply too much pressure on the connecting cables.



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• Step 2: Checking the Accessories 22
• Step 3: Installing Tip-Over Prevention 23
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• Step 5: Connecting to the Network
• Step 6: Connecting the Power Cord 27
• Step 7: Preparing the Remote
• Step 8: Making the Initial Settings
• Turning off the Power



Step 1: Unpacking

(2) Lift the upper carton.



This box contains accessories, padding materials, and the server unit. Since the unit is large and heavy, make sure to work with another person, and follow the procedures in this document as described.

1 Remove the accessories and the glass panels.

(1) Remove the accessory pack.

Do not discard; the boxes contain accessories and Operating Instructions.

(2) Remove the glass panel cushioning.

③ Remove cushions.

Operating Instructions Accessory pack



Handle the glass panels with care.

2 Remove the upper carton.

(1) Remove four plastic tabs located at the bottom of the carton.



The upper box is detached from the pallet.

3 Remove the lock screws.

- (1) On the bottom of the unit (not the box), you should find two lock screws.
- (2) Unscrew counter-clockwise and remove them.



Store the lock screws in a safe place as you will need them when transporting the unit. These screws are necessary to prevent damage to the disc pickup mechanism during shipping and transport.

4 Remove the lock stick.

- (1) On the bottom of the unit (the same place as step 3), you should find a lock stick.
- **(2)** Unlock the lock stick by turning the stick clockwise 90 degrees and remove it.



Store the lock stick in a safe place as you may need it when transporting the unit. The lock stick is necessary for securing the unit to the packing material to prevent damage of the mechanical block during shipment and transportation.

③ Close the three holes (including the holes in step 3) with the supplied dust-tight seals.

The dust-tight seals are included in the accessory box.



5 Place the unit upright.

With two persons, bring the unit gradually into the upright position (pallet at the side).



- Make sure to move the unit with at least two persons. The unit weighs 48 kg (105 3/4 lb).
- · Move the unit slowly and carefully so the unit does not drop out and fall over.
- Refer to the above illustration so as not to hold the wrong side of the unit.



6 Remove the pallet.

(1) Remove the cushioning from the top of the unit.



(2) Remove the pallet while another person is holding up the unit.



7 Remove the cover sheet, and place the unit. **1** Remove the white cover sheet.





(2) Move the unit to the place of installation. Be sure to grasp the handles when moving the unit.



Install the unit on a flat surface in a stable place.

8 Attach the glass panels.

(1) Check the orientation indicated on the glass panels.

Right side panel will only fit right side and left panel will fit only left side. (They are not interchangeable.)



② Remove the tape that covers the panel lock lever (painted in red), and pull out the lever with a coin or flathead screwdriver, etc.



(3) Insert the panel's projecting tabs on the bottom edge into the three slots on the unit.



To move the unit, detach the glass panels and grasp the handles underneath.

(4) Holding the glass panel to the side, push the lever back to its original position.

The panel is locked.



Push the lever all the way through till it remains flush the back panel surface.

(5) Repeat steps 1 to 4 to attach the other panel.

Use the supplied cleaning cloth to wipe the glass surfaces. The cleaning cloth is included in the accessory pack.

Note

If the unit is brought director from a cold to a warm location, or is placed in a very damp room, moisture may condense on the unit. If this happens, leave the unit without connecting the power cord for about six hours, until the moisture evaporates.

Observe the following precautions when moving the unit.

- Be sure to remove all discs before turning off the power.
- Attach the two lock screws and the lock stick to the unit. Be sure to disconnect the power cord when attaching them. Use the supplied carton and cushions for transportation.

Step 2: Checking the Accessories

The following items are supplied in the accessory pack:

- Audio/video cable (phono plug × 3) (1)
- LAN cable with Ferrite Clamp (Ferrite EMC Filter) (1)
- HDMI cable (1)
- Power cord (1)
- Remote commander[®] (remote control) (1)
- Size AA (R6) batteries (2)
- Cleaning cloth (1)
- Dust-tight seals (6)
- "Music Transfer" installation CD (1)

Step 3: Installing Tip-Over Prevention

Without a proper installation, the server unit may fall over causing an injury. It is strongly recommended that you anchor the unit to a solid wall or a post with a commercially available anti-tip-over device.

Please contact a licensed contractor or your dealer with this installation.



1 Attach the device to a solid wall or post. The device should be located higher than the screw bolt on the rear of the unit.

2 Secure the unit to the device by running the wire through the hole on the bolt so that it forms a "V" shape.





Notes

- Make sure when you attach the wire there is sufficient tension between the unit and the device on the wall.
- Place the unit within 15 inches from the wall.
- When placing the unit, do not block the ventilation holes on the rear, or a malfunction may result.

Step 4: Connecting to the TV (or monitor)

This section covers the most frequently used hook-up configurations. See "Various Connections" (page 100) for other connection patterns.

Connecting a TV with an HDMI cable



Notes on connecting to the HDMI OUT jack

Observe the following as improper handling may damage the HDMI OUT jack and the connector.

• Carefully align the HDMI OUT jack on the back of the server and the HDMI connector by checking their shapes. Make sure the connector is not upside down or tilted.



• Be sure to disconnect the HDMI cable when moving the server.



- Do not place the server where the HDMI OUT jack and HDMI cable are subject to wear or abuse.
- Do not pinch, bend, or twist the HDMI cable excessively. Doing so may damage the HDMI OUT jack or the HDMI cable.

About the 'BRAVIA' Theatre Sync[™] features (for HDMI connections only)

By connecting Sony components that are compatible with the HDMI Control function with an HDMI cable (supplied), operation is simplified as below:

• One-Touch Play

With a single touch of the power, HOME or \triangleright button, the input selector on the TV or the AV amplifier is automatically switched to the server. Press \mathbf{I}/\mathbf{O} when the server is turned off, or press HOME or \triangleright when the server is turned on to activate One-Touch Play.

• System Power-Off

When you turn off the TV, the receiver and connected equipment are also turned off simultaneously. The server keeps playing music if you turn off the TV while the server is playing music.

Notes

- The HDMI Control operation is possible for up to three players including this server.
- When connecting or disconnecting the HDMI plug, be sure to set [HDMI Control] to [On].

To prepare for the 'BRAVIA' Theatre Sync features

Set [HDMI Control] to [On] (page 116).

Note

Depending on the connected component, the HDMI Control function may not work. Refer to the operating instructions supplied with the component.

About the x.v.Color

- x.v.Color is a more familiar term for the xvYCC standard proposed by Sony, and is a trademark of Sony.
- xvYCC is an international standard for color space in video. This standard allows for a wider color range than the currently used broadcast standard.

Note

This server supports playback of video contents on discs recorded with "x.v.Color" technology. To watch video content recorded with "x.v.Color" technology, check if your TV or AV devices support this feature.

Connecting a TV with an audio/video cable



Getting Started

Step 5: Connecting to the Network

Connect the LAN terminal on the server to your Internet source using an Ethernet cable. See also "Network Settings" for necessary network settings (*page 121*).

The supplied LAN cable has a ferrite clamp. Use the plug with the clamp when connecting to the LAN terminal on the server.

Note

Refer also to the instructions supplied with the router or the gaming adaptor.

When connecting to a router directly



When using a gaming adapter as a wireless bridge



Step 6: Connecting the Power Cord

After all of the other connections are complete, connect the supplied power cord to the AC IN terminal of the server. Then plug the server and TV power cords into the AC outlet.

Step 7: Preparing the Remote

You can control the server using the supplied remote. Insert two Size AA (R6) batteries by matching the \oplus and \bigcirc ends on the batteries to the markings inside the battery compartment. When using the remote, point it at the remote sensor on the server (*page 13*).





Notes

- Do not leave the remote in an extremely hot or humid place.
- Do not drop any foreign object into the remote casing, particularly when replacing the batteries.
- Do not expose the remote sensor to direct sunlight or a lighting apparatus. Doing so may cause a malfunction.
- If you do not use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

Step 8: Making the Initial Settings

Follow the steps below to make the minimum number of basic adjustments for using the server. These steps are recommended setup procedures.

See "Server Settings" (*page 108*) to make other optional settings.

Note

If you cancel the Easy Setup halfway, the default settings remain effective, and the server's network functions (server function and AMG data search function) may be disabled.

When turned on for the first time

The server automatically turns off after 110 seconds, so turn it on again. The Easy Setup display appears after 70 seconds.



1 Turn on the TV.

2 Press I/⁽¹⁾ to turn on the server.

The server turns on after a moment.

3 Switch the input selector on your TV so that the signal from the server appears on your TV screen.

Easy Setup	
Easy Setup steps you through the basic setup. You can manually charge the configurations later in the Settings category.	
- Date and Time Settings - All Media Guide Settings - Music Server Settings	l
Start	
RETURN Finish	

To access the Easy Setup, press HOME, select [Settings] – [Easy Setup] (*page 123*).



4 Select [Start] and press ENTER.

The clock settings display appears.





The All Media Guide Settings display appears.

💼 Easy Setup - All N	ledia Guide Setti	ngs	AMG	2/4
Please read the follor AMG Flow-Down Licc "This application incor ("AMG"). The AMG s allows End Users to a located on AMG serve You may access and functions of this applic Sease for unit rom with Sease for unit rom of	wing Terms of Use <i>i</i> ense Terms (Terms porates software and oftware and technolic ccess music and mon from proprietary AM rs (the "AMG Serve use AMG Data only b ation software.	and press Agree or De of Use) I technology of All Medi gy (collectively, the "A gy (collectively, the "A for databases (the "AM rs") and to perform oth y means of the intende the AMG Technology.	a Guide, LLC. MG Technology ^{we}) Data ^{wa}) over the G Databases ^{wa}) er functions. d End User and the AMG e not to assign	
copy, transfer or trans	mit the AMG Data to	any third party. You ag	ree not to use or	
	Agree	Decimie		
			RETUR	N Return

All Media Guide (AMG) is a technology and content database provider offering music and movie related data (metadata) for your commercially produced discs.

6 Select [Agree] to use the AMG database and press ENTER.

The music server function display appears.



7 Select [On] to turn on the music server function and press ENTER.

This setting is required for music sharing (*page 74*), "Music Transfer" (*page 49*).

"When [Music Server Function] is set to [On], the unit becomes	
accessible by other devices on the network. Without proper security precautions, the unit may be affected by access or attack from a third	
party, resulting in falsification or destruction of recorded data."	
To prevent such access or attack, register the devices that you want to	
Manual (recommended):Allows access for registered deices only.	
Auto: Allows access for all devices on the network, up to 10 devices.	
Set these only when using in a secured network.	
Change Do Not Change	

8 Select [Change] on the confirmation screen and press ENTER.

A message appears notifying that [Standby Mode] in [System Settings] was set to [Standard]. The default setting is [Eco].

- 4 Select [Standby Mode] and press ENTER.
- **5** Select [Eco] and press ENTER.



- The [Standard] setting consumes more power than the [Eco] setting.
- Setting [Music Server Settings] to [On] will automatically set [Standby Mode] to [Standard]. See page 122 for details about [Music Server Settings].

9 Select [Close] and press ENTER.

💼 Easy :	Setup - Client	Registration				4/4
	Select the clien If you are making	t registration me ng this setting le	thod. tter, selec	t [Manual].		
	-	Auto	-	Manual		
					6	ETURN Return

10 Select if you want to change the method for

client device registration and press ENTER. Client registration is required to allow DLNA compatible network audio devices and "Music Transfer" to access the server's music content from other rooms.

In this manual, "client device" refers to devices that receive and play music content on the home network. Home Entertainment Server, that shares music in response to the client's request is called "server."

11 Select [Finish] and press ENTER.

• To use the AMG database or the music server function, press HOME, select [Settings] - [Network Settings] -[Music Server Settings] and make necessary changes (page 121).

🛱 Hints

- If you want to reset these settings to their factory defaults, select [Settings] - [Reset to Factory Default] (page 124).
- You can re-run Easy Setup by selecting [Settings] [Easy Setup] (page 123).
- To keep the power consumption to the minimum when the server is turned off, set [Standby Mode] to [Eco] (see below).

Setting the server to Eco mode

- **1** Press HOME to turn on the Home Menu.
- **2** Select [Settings] to display the icons.
- **3** Select [System Settings] and press ENTER.

Turning off the Power

To turn off the power, press I/C on the left bottom of the top panel or I/C on the remote.

 $V^{(1)}_{(1)}$ on the top panel turns green to red, and "POWER OFF" flashes on the front panel display.

Do not disconnect the power cord while "POWER OFF" is flashing as it causes a malfunction.

To make sure that the power is completely off, wait until the current time appears on the front panel display.

(Note that nothing will appear on the front panel display while the power is off if you have set [Brightness of Front Panel] in [System Settings] to [Dim] (*page 116*).

However, you can turn off the power by pressing I/\bigcirc while the server is running the following operations.

- -Photo Import
- -Music Import
- -Music transfer from PC
- -Music Share
- -Disc finalize
- -HDD to disc copy

The above operations will continue until complete even in the standby mode. While the server is running the operations, indicators on the top or front panel display (*page 14*) light up. Do not disconnect the power cord during the operations.

Getting Started

Inserting/ Removing Discs and Memory Cards



•	Inserting	Discs .	•	•	• •	•	•	•	•	•	•	•	•	• •	•	•	•	•	•	•	•	• •	3	2

Inserting Discs

 BD
 BD-RE
 BD-R
 DVD
 +RW
 -RWVR
 -RWvideo
 +R

 -R vr
 -Rvdeo
 RAM
 DATA DVD
 AVCHD
 CD
 DATA CD

- **1** Press I/⁽¹⁾ to turn on the server.
- **2** Touch DISC OPEN/CLOSE on the bottom right of the front panel.

The front panel slides open, and the disc tray extends.

3 Place the disc on the disc tray with the playback/recording side facing down.



4 Touch DISC OPEN/CLOSE on the bottom right of the front panel.

Both the disc tray and panel will close. The server loads the disc and registers it to the internal database. In addition, the server accesses the AMG database for disc information depending on the disc. You can view the registered disc listings by selecting [Loaded Disc] of [Disc Manager] (*page 110*).

The disc will be ejected if the changer is full.

When inserting multiple discs

Wait until the busy LED indicator turns off. Open the disc tray by pressing \triangleq while keeping the front panel open. Note that \triangleq does not work while the busy indicator is turned on.

ថ្ពុំ Hints

- For 12 cm discs, up to 196 can be loaded; for 8 cm discs, up to 4.
- When you have finished configuring [All Media Guide Settings] and [Internet Settings] properly before inserting multiple discs, you can collectively acquire AMG data for the inserted discs. You will need to search the AMG database for each disc in other cases.
- The AMG disc description is not provided for content copied on a recordable media such as a CD-R/CD-RW and DVD-R. Note that no data can be acquired for music content imported to the HDD.
- The number of the displayed cover arts of music CDs, DVD-ROMs and BD-ROMs are limited. Such cover arts are displayed while the corresponding CDs, DVD-ROMs and BD-ROMs remain in the changer. About AMG, see *page 146* for details.
- Do not place multiple discs on the disc tray at the same time.
- For details about discs, see "Notes On Disc Handling" (page 4).

Registering discs manually

You can register discs that failed to register at the time of loading.

Normally the server recognizes and registers the inserted discs automatically. However, the automatic registration does not occur if the drive is occupied or if any other function is being processed. In this case, you will need to register the disc manually.



Ejecting discs

- **1** Press HOME to turn on the Home Menu.
- **2** Select **=** to display the icons.
- **3** Select [Disc Manager] and press ENTER. The Disc Manager display appears with one of the disc listings: [Loaded Disc], [Blank Disc], [Unreadable Disc], [Unknown Disc]. If the disc you want to eject is not listed, change the list display by pressing OPTIONS. For details about [Disc Manager], see *page 110*.
- **4** Select the disc you want to eject.
- **5** Select [Eject] and press ENTER.

To lock/unlock the front panel (Child Lock)

When the front panel is closed, touch \blacksquare on the top panel for 10 seconds or more.

When the front panel is locked, "LOCKED" appears on the top panel display; when unlocked, "UNLOCKED" appears.

To play the inserted disc

You can play the disc without turning on the Home Menu. When the disc tray is extended, touch \triangleright on the top panel.

Managing Server Content With the Disc Information Display

 BD
 BD-RE
 BD-R
 DVD
 +RW
 -RWVR
 -RWvideo
 +R

 -R vr
 -Rvideo
 RAM
 DATA DVD
 AVCHD
 CD
 DATA CD

The Disc Information display shows disc information as well as settings applicable to individual discs.

Displaying disc information

ប៉្តិ Hint

To manage multiple discs at once, use the Disc Manager display (*page 35*).

- **1** Press HOME to turn on the Home Menu.
- 2 Select 🛄, 💿, or **,**.
- **3** Select ())) and press ENTER.
- **4** Select and press OPTIONS.
- **5** Select [Information/Settings] and press ENTER.

The Disc Information display appears. The display differs depending on the disc type and recording format.

◆Example: Display for a BD-R



- 1 Disc Name
- 2 Media
- **3** Title Total

Original title total/Playlist title total* * for BD-RE, BD-R only

4 Protection

Shows if the disc is protected or not.

- **5** Lock Shows if the disc is locked or not.
- 6 Rec Date

Most recent and the oldest dates.

7 Remaining

- Bar indicator for disc capacity
- Disc's remaining capacity/total capacity
- Possible continuous recording time

Disc information may not be correct if the disc is recorded on other devices.

8 Data Folder

Shows if the disc contains folders (BD-RE, BD-R only).

9 Disc settings

◆Example: Display for a DVD-RW



1 Disc Name

2 Media

3 Title Total

Original title total/Playlist title total* * for DVD-RW (VR mode), DVD-R (VR mode) only

4 Rec Date

Most recent and the oldest dates.

5 Recordable Time

• Possible continuous recording time Disc information may not be correct if the disc is recorded on other

devices.

6 Format

Format: Indicates the recording format (VR or Video mode) for DVD-RW and DVD-R.

7 Disc settings

Selectable items vary depending on the disc type. See *pages 35* for details.

- Name Input
- Protect (write-protect)
- Finalize
- DVD Menu (DVD only)
- Format

8 Remaining

- Bar indicator for disc capacity
- Disc's remaining capacity/total capacity

Disc information may not be correct if the disc is recorded on other devices.

Labeling a disc

BD-RE BD-R +RW -RW vR -RW video +R -R vR -R video

Name or rename the disc using the Disc Information display.

1 On the Disc Information display, select [Name Input] and press ENTER.

The on-screen keyboard appears.

2 After entering the disc name, select [Finish] and press ENTER.

See page 90 for character input.

Note

You cannot label a disc if the disc is finalized.

Protecting a disc

BD-RE BD-R -RWVR -RVR

Protect important discs against accidental erasure and alteration.

1 On the Disc Information display, select [Protect] and press ENTER.

The protection display appears.

Protect
Set protection for this disc.
On Off

2 Select [On] and press ENTER.

Locking a BD-RE/BD-R

BD-RE BD-R

Set a password to control playback of recordable BDs.

1 On the Disc Information display, select [Lock] and press ENTER.

The lock display appears.

Disc Lock Settings	
Currently the disc is not locked. Do you want to set a password and lock the disc?	
Yes No	

2 Select [Yes] and press ENTER. The password display appears.



3 Enter a password using the number buttons, select [OK], and press ENTER.

After you remove the disc, the disc will become unplayable without the password.

To unlock, repeat the steps and select [Yes] in step 2.

Notes

- You will need the password for playback as well as for unlocking the disc.
- Do not forget the password, as the password setting cannot be cleared without the password.
- Do not forget the password. The password will be required when you play the locked BD-RE/BD-R again on the server.
- When [Standby Mode] is set to [Standard], the disc may play without the password if you turn off the power after unlocking the disc.

Mana	aging	Disc	S		
BD BD- -Rvr -Rv	RE BD-R	DVD +	RW -RWVR	-RW _{Video} DATA CD	+R

In Disc Manager, you can view the list of discs in the changer and apply settings to discs.





3 Select (Disc Manager) and press ENTER.

The Disc Manager display appears with one of the disc listings: [Loaded Disc], [Blank Disc], [Unreadable Disc], or [Unknown Disc].

◆Example: Loaded Disc List



About icons on the content display area : Video is recorded.

: Music or photo data are recorded.

To switch to another list

- 1 After step 3, press OPTIONS. The Options menu appears.
- 2 Select [View by Group] and press ENTER.



3 Select the list name.

/et. Disc

Note

Discs that contain no data will be assigned to [Loaded Disc] after being formatted.

♦To select all discs Select [Select All].

To cancel all discs

Select [Clear All].

To exit Disc Manager

Select [Close].

◆To eject discs

Select the discs and press ENTER. Then select [Eject]. The discs will be ejected in turn.

To view disc information or apply settings

Select a disc, press ENTER, and select [Information]. The disc information display appears (see page 33).

♦To format a disc

Select a disc, press ENTER, and select [Format Disc] (page 93).

To register disc information

Select [Load]. Depending on the disc type, the server accesses the AMG database for disc information and saves it.

Ϋ́ Hint

Some settings and operations may not be available depending on the types of discs in the changer. For example, the Loaded Disc list provides all settings except [Load] while it is selectable on the Unknown Disc list for multiple discs.

Inserting Memory Cards M.S. CF SD xD Insert the memory cards as follows.



1 Touch MEMORY CARD OPEN/CLOSE on the front panel.

The front panel opens to reveal the card slots.

2 Insert the memory card into the corresponding memory card slot.

The indicator for the inserted memory card lights up on the top panel.

Note that:

- With a Memory Stick or an SD memory Card, push the card until it clicks.
- When removing a CF card later, press the button beside the slot.

3 Touch MEMORY CARD OPEN/CLOSE to close the front panel.

ີ 🛱 Hint

See "Supported memory card types" (page 151) for supported memory cards.

Notes

- Do not remove or insert memory cards while the Memory Stick/CF/ SD/xD-Picture Card LED indicators are flashing as the cards are being accessed.
- Be sure to insert the memory card into the corresponding slot. Inserting a wrong card may cause a malfunction.

Notes about "Memory Stick" card slot

- This server is equipped with a system which automatically measures the size of an inserted Memory Stick media. This way both standard-size "Memory Stick" and smaller "Memory Stick Duo" can be used on this product without any Memory Stick Duo Adaptor.
- Do not insert two or more pieces of media at the same time. It might cause damage to the product.
- Check the orientation before use.
- When you use "Memory Stick Micro" ("M2") on this product, please make sure to attach the media into an M2 Standard-size Adaptor or M2 Duo-size Adaptor.
- If you attempt to insert a "Memory Stick Micro" without attaching to the M2 adapter, there is a possibility that it cannot be pulled out.
- "Memory Stick Micro" may not operate properly when the media is put into M2 Duo-size Adaptor and then inserted into a Duo Adaptor. Use only one adaptor.
- "Memory Stick Duo", "Memory Stick Micro", "M2 Duo-size Adaptor" should be kept away from small children to prevent them from accidentally swallowing the the media and the M2 Adaptor.
Inserting/Removing Discs and Memory Cards

Importing to HDD



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Checking the HDD Information

HDD

- **1** Press HOME to turn on the Home Menu.
- **2** Select **E** to display the icons.
- **3** Select (Line1), (Line2) and press ENTER.
- **4** Press OPTIONS.
- **5** Select [HDD Information] and press ENTER.



1 Media

Disc type

- 2 Title Total
 - Original title total/Playlist title total
- **3** Albums
 - Number of photo albums

4 Remaining (approx)

- Bar indicator for HDD capacity
- HDD remaining capacity/total capacity
- Possible continuous recording time
- **5** Files
 - Number of photo files

6 Erase All

Erases all titles except the protected titles on the HDD. Music files and photo files will not be erased.



Importing videos from discs

You can import video titles recorded on discs. The server supports the BDAV format content.

Notes

· You cannot import from discs recorded in AVCHD format.

• The server does not support the BDMV format (one of the Blu-ray Disc specifications). You cannot import BDMV format content edited on PCs, or copy such content from the HDD to a disc.



1 Press HOME to turn on the Home Menu.

2 Select **1** to display the icons.



3 Select **• The import and press ENTER.**

The disc selection display appears.



4 Select a disc to import from and press ENTER.

The title selection display appears.



5 Select titles to import (30 titles max to be copied at a time to HDD) and press ENTER.

The titles are numbered in the selected order.

- To cancel all selections, select [Clear All].
- To make detailed settings for import, select [Settings].

6 Select [Start] and press ENTER.

Import continues even if you turn off the server. To check progress, press HOME, select \Rightarrow and press ENTER.

Importing videos from HDV/DV camcorders

HDD

When you connect a digital camcorder to the HDV 1080i/DV IN jack on the server and start importing, the server rewinds the HDV/DV tape to the beginning and copies the entire tape. If the camcorder is compatible with HDV format (1080i), you can import the HD (High-Definition) quality videos to the HDD with no deterioration. See also your camcorder's manual for details.

Note

Time required for import differs depending on the content and the format

To prepare for import

1 Press PUSH/OPEN on the rear of the server.



The retractable jack and control panel pops open.



2 Connect the camcorder's HDV/DV output jack (i.LINK jack) and the server's HDV 1080i/DV IN jack.

To record from the HDV1080i/DV IN jack

Since the HDV1080i/DV IN jack complies with the i.LINK standard, the jack can record digital signals from other i.LINK devices. For more information about i.LINK, see *page 145*. The server supports the following formats:

- -DV format
- -HDV format (1080i)

°Ç Hint

You can edit the content after importing videos to the HDD (page 79).

To import using the IMPORT button on the top panel (One-Touch Import)

- **1 Insert an HDV/DV format tape to the camcorder.** Set the camcorder to playback mode when editing or recording on the server's side. Playback operations such as rewind, etc., on the camcorder are unnecessary.
- **2** Touch IMPORT SELECT on the top panel until "HDV/DV" appears on the top panel display.



3 Touch IMPORT.

You can use the remote's IMPORT button instead.

🍟 Hints

- The following setting items are available in [Import Settings]. Press HOME and select [Settings] – [Import Settings] (*page 111*):
- Recording signals in [HDV/DV import Settings] ([HDV] or [DV])
 Recording mode for DV signals ([XR], [SR], [LR], or [ER]). See
- *page 150* for recording modes.For details about Playlist creation and Playlist titles, see *page 79*.

To import from a camcorder using the Home Menu

- **1 Insert an HDV/DV format tape to the camcorder.** Set the camcorder to playback mode when editing or recording on the server's side. Playback operations such as rewind, etc., on the camcorder are unnecessary.
- **2** On the server's remote, press HOME to turn on the Home Menu.
- **3** Select **to** display the icons.
- 4 Select (HDV/DV Import) and press ENTER.

The HDV/DV import display appears.

HDV/DV Import		
Connected Device		Start
HDV/DV Rec	Mode	Finish
DV	(XR)	
		Audio Settings
Recorded Audio: HDD Free Space: Create Playlist by Dat	Stereo 1 384.4GB [55H07M] e: No	Playlist Settings
		RETURN Finish

5 Press ←→ to select each of the following items, and select a setting by pressing ↑↓.

Items	Settings
HDV/DV	 [DV] will be automatically selected when a DV device is connected. If you connect an HDV device, manually select [HDV] or [DV] according to the signal to import HDV: Select this when recording signals recorded in HD quality. DV: Select this when importing conventional DV signals to HDD.
Rec Mode	Select from [XR], [SR], [LR], [ER]. This setting is fixed to DR when importing from HDV devices. See <i>page 150</i> for recording modes.
Audio Settings (for DV only)	 Select the audio input setting and press ENTER. The default setting is [Stereo 1] [Stereo 1]: Records the audio signals that are originally recorded. Select this for DV tapes. [Mix]: Record both Stereo 1 and 2. [Stereo 2]: Records only the audio added after the shooting. Select [Mix] or [Stereo 2] only when you added audio after the shooting.
Playlist Settings	Select if you want to make a Playlist title for each recording date. Up to 30 Playlist titles can be made in one import, and a Playlist title can contain up to 99 scenes.

6 Select [Start] and press ENTER.

How a title is divided into chapters

When recording from HDV/DV tape to the HDD, each shooting becomes one chapter.

Or, chapters are made as set in [Auto Chapter Mark] (page 111).

♦To stop importing

Press IMPORT.

Or press OPTIONS, select [Stop Import] and press ENTER. Then select [Yes] on the confirmation screen and press ENTER again.

Note that pressing ■ will not work and that when [Playlist Settings] is set to [Create Video Title], it may take more than five minutes before import is stopped.

Importing videos from external devices

HDD

You can record videos from a tuner or a VCR when they are connected to the server.

If you are connecting a camcorder, use the HDV1080i/DV IN jack (see "*Importing videos from HDV/DV camcorders*" on (*page 39*).

- **1** Press HOME to turn on the Home Menu. Categories Details Personal Video **2** Select **•** to display the icons. **3** Select from Line1, Line2, HDV, or DV also belong to this group). according to the connection and press ENTER. Notes about Importing Videos Video content from the external device appears. **4** Press OPTIONS to display the Options menu. VIDEO jack or an audio/video jack for connection. **5** Set the connected device to playback pause mode. or copying. 6 Select [Import to HDD], and then press the signals can be output. • You cannot use the HDV 1080i/DV IN jack when: play or pause button on the external device. To stop recording, press OPTIONS and select [Stop Import]. °Ç Hints · You can adjust the video quality and the size before recording (page 60). · When using the IMPORT button on the server, you can select the server of the same model. recording mode. Press HOME, and select [Settings] - [Import Settings] - [External Input Rec mode] ([XR], [SR], [LR], or [ER]). lasts five minutes or more. Notes · You cannot turn off the power during import. • The HDD records up to 300 titles. Although the actual number may be lower depending on the use. • A title that exceeds eight hours cannot be imported. · Any video titles from the HDD cannot be copied to a BD-R/BD-RE if the total playback time of the selected titles exceeds 12 hours. · Import from a commercially available BD-ROM or a DVD VIDEO is may be affected. not allowed. will not work for HDD import. Playing data while it is being recorded

 - incorrect, Playlist making and Auto Chapter Mark function
 - The dated Playlist function may not work properly if the tape contains blanks, or data mixed with HDV and DV signals.
 - The imported/copied pictures and sound may be interrupted momentarily, when the source data is:
 - -Contains multiple picture configurations.
 - -Contains both HDV and DV signals.

Notes

started.

(Chasing playback)

2 Select $\textcircled{\bullet}$ to display the icons.

and press OPTIONS. The Options menu appears.

Group names for imported video titles

1 Press HOME to turn on the Home Menu.

3 Select the input currently being imported,

4 Select [Chasing Playback] and press ENTER.

· Playback picture pauses if you catch up the point of current recording.

On the Home Menu, imported video titles are grouped as below.

Categories	Details
"x-Pict Story"	Video titles created from "x-Pict Story HD" (or its Playlist titles).

- Includes video titles imported from discs or external devices via the LINE 1/LINE 2, or DV/HDV input jacks. (Playlist titles
- · Connection to Sony DV/Digital8 format camcorders and Sony digital HD camcorders has been confirmed. MICROMV format camcorders cannot be connected to the server's i.LINK jack as their i.LINK jack differs in signal format. Use an S
- HDV/DV import is not available when the server is importing
- The HDV 1080i/DV IN jack on the server is for input only. No
- -The output jack on the digital video camera is not compatible with the HDV 1080i/DV IN jack on the server. Connect the device to the LINE IN jack, and follow the steps in "Importing videos from external devices" (page 40).
- The recordings on the tape contain copy protection signals.
- The server is not interoperable with other i.LINK devices or a
- Data in the cassette memory of the tape are not recorded.
- Importing and copying will end if the tape contains a blank that
- When importing from DV devices, the server records the blank section on the DV tape for five minutes before finishing recording. To stop importing, press IMPORT. When importing from HDV devices, no blank section will be recorded.
- If the picture configuration is changed midway or a blank is contained on the source data, the imported or copied content
- · Check that the clock of the digital camcorder is correctly set. If

- -Recorded in multiple recording modes.
- -Contains blanks.

Importing Photos

HDD - BD-RE BD-R DATA DVD DATA CD M.S. CF SD xD

Ϋ́Υ Hint

You can turn off the server by pressing $1/\bigcirc$ during photo import. The operation continues even when the power is off.

Notes

- · Do not eject a memory card while its card indicator is flashing. The data may be damaged.
- · The server recognizes files saved on up to the 4th layer (the root disc and memory card are the 1st layer).
- Up to 500 files can be imported to the HDD at one time.
- If you import more than 200 photos to the server at one time, the server groups each 200 photos into a folder. The server can accommodate a maximum of 20,000 files.
- If more than 500 files (including files other than JPEG format) are contained in a folder, some files and folders may not be displayed.
- Some files may not be displayed if more than 4,000 files (including files other than JPEG format) are contained in a folder on a single DVD/CD (except BDs).
- If the file name overlaps with an existing file name on the destination disc, the imported file name will be numbered with a suffix, (1), (2), etc. Also, since file names are limited to 16 characters, if files you are copying have longer names, the server recognizes them having the same name and numbers them with a suffix.

Importing all content from memory cards (One-Touch Import)

Insert your Memory Stick, SD memory Card, CompactFlash card, or xD-Picture card into the server. The import procedures are as follows.

HDD ← M.S. CF SD xD

1 Touch MEMORY CARD OPEN/CLOSE on the unit.

The front panel opens to reveal the memory card slots.

2 Insert a memory card into the corresponding card slot.

The indicator(s) for the inserted card type lights up on the top panel.

3 Touch IMPORT SELECT on the unit repeatedly until the card type appears on the display window.



4 Touch IMPORT on the unit.

You can use the remote's IMPORT button instead. To stop importing halfway, touch IMPORT again.

ϔ Hint

Imported folders are named automatically. To rename, see page 90.

Notes

- · Photos are imported only from memory cards. (Files located up to the 3rd layer of the DCF compliant DCIM folder.)
- · The IMPORT button does not work while importing from other media is in progress.
- During import, the server creates a new folder for each 200 photo files. This grouping applies even when the files are grouped differently in the source memory card.
- · Do not remove a memory card while its card indicator is flashing. The data may be damaged.
- · Auto Grouping at the time of import is performed according to the settings made in [Settings] - [Import Settings] - [Auto-Group to Albums] ([On] or [Off]).
- When the source contains more than 3,000 files, only the first 3,000 files are imported.
- When the folders in the source memory card contain more than 500 files, only the first 500 files are imported.
- The server retains up to 900 photo folders (DCF) on the 3rd layer of the Home Menu. No further import can be performed beyond this limit.
- · Auto Grouping* will be canceled if it results in a folder containing more than 200 files. Files are imported without being grouped.
- If the destination folder contains a file of the same name, the server adds a number to the end of the file name before importing (e.g., "....1","....2",etc.).
- When the Auto Grouping function is not used, the imported photo folder will have the same folder name as the first folder in the source DCF folder.
- · One-Touch Photo Import may not work while the server is performing other operations.
- * Auto Grouping (or Clustering) refers to automatic grouping of photos in a folder by events.

Importing an album

The server displays file folders of discs and memory cards as albums.

- **1** Press HOME to turn on the Home Menu.
- **2** Select **o** to display the icons.
- **3** Select the media to import, (\circ))) (Photos) or a memory card icon and press ENTER.

4 Select **••** or a folder to import and press **OPTIONS.**

The Options menu appears.



- **5** Select [Import] and press ENTER. A message appears asking if you want to auto-group the photos in the album by events.
- 6 Select [Yes] and press ENTER.

If you do not want to auto-group photos, select [No].

7 On the confirmation screen, select [Yes] and press ENTER.

All photos are intelligently grouped by events according to the shooting date and time.

Importing a photo



- 2 Select **o** to display the icons.
- **3** Select the media to import, (\circ) (Photos) or a memory card icon and press ENTER.
- **4** Select **•** or a folder and press ENTER.
- **5** Select a photo to import and press **OPTIONS.**

The Options menu appears.





6 Select [Import] and press ENTER.

7 On the confirmation screen, select [OK] and press ENTER.

To import to a new album, select [New Album].

8 Select the destination album and press ENTER.

Importing multiple photos

- **1** Press HOME to turn on the Home Menu.
- **2** Select **o** to display the icons.
- **3** Select the media to import, (\circ))) (Photos) or a memory card icon and press ENTER. The album selection display appears.
- **4** Select or a folder and press ENTER. The photo thumbnails appear.
- **5** Press OPTIONS.

The Options menu appears.



- Importing to HDD
- 6 Select [Still Pictures] [Import Multiple] and press ENTER. The file selection display appears.
- **7** Select photos to import and press ENTER. A check mark appears next to the selected photo. To select all photos, select [Select All]. To cancel all selections, select [Clear All].
- 8 Select [OK] and press ENTER.
- **9** Select a setting in [Auto-Group to Albums] and press ENTER.
- **10** Select [Yes] and press ENTER.
- **11** Select the destination album and press ENTER.

About DCF

DCF is the abbreviation for "Design rule for Camera File System".

It is the standard that has been regulated by Japan Electronic Industry Development Association, or JEIDA, to promote environments mainly for users to easily utilize image files, such as ones from digital still cameras, among related products. DCF standards, however, do not guarantee complete compatibility among products.

Notes about photo files

- Photos edited on PCs may not be playable.
- Voice Memo is not supported.
- · Some photos may be slow to appear, and may be slower when the following operations are performed if there are many

►continued



photos (files). Since it is not a malfunction, do not turn off the power while:

- -displaying thumbnails*
- -playing a slideshow
- * Thumbnails may appear slowly depending on the photo size and the location saved.
- When viewing a photo shot with 16:9 (HDTV size) setting on a TV, black bands may appear on the top, bottom, left, and right of the photo. See [Video Output Aspect Ratio] (*page 112*) and change the server's output aspect ratio setting to 16:9. To change the viewing mode setting, see your TV's manual.

Supported discs and photos

- The server plays JPEG image files that conform to the DCF* image file format.
- * "Design rule for Camera File system"; Image standards for digital cameras regulated by JEITA (Japan Electronics and Information Technology Industries Association).
- Some functions may not work correctly for JPEG images that do not conform to DCF format (still images edited with a PC, etc.).
- Thumbnails will not appear on the list and the file will not play if the size is larger than 10 MB.
- Thumbnails may appear slowly if the file size is large.
- The following files appear on the photo list display but cannot be played or imported to the HDD.
- -JPEG files whose size is 4,097 x 6,145 dots or more.
- -JPEG files whose size is 15 dots or less.
- -Progressive JPEG files.
- Files will not be displayed on the photo list nor played.
- -BD-REs/BD-Rs recorded in a format other than UDF 2.5.
- Discs may not play depending on their condition.

Notes about photo import to the HDD

- When a folder is selected for import, only the photos directly under the folder can be imported. Any subfolders and photos within the subfolder will not be imported.
- Photos may not be displayed if the memory card contains files other than photo files.
- The server imports up to 500 photos to the HDD at one time. When the IMPORT button is used, up to 3,000 files can be imported (only JPEG files of DCF format will be imported).
- If more than 200 photos are imported at one time, the photos are grouped into folders and saved on the HDD. The server can accommodate up to 20,000 files.
- With photos captured from digital video cameras, the date information is the shooting date of the original video title when captured from HDV video, and the date of import when captured from DV videos.
- Import of one photo file takes about ten seconds. It may take more than 30 minutes for the server if many photos are imported at one time.
- When the destination album on the HDD has a photo of the same name, a number will be added to the name of the imported photo ((1), (2)...). Since the number of characters is limited to 16, if many photos have similar long names with differing affixes, they may be named the same with differing numbers.

Location of files and folders

When directly under the root (removable media itself) is 1st layer, the server recognizes data saved up to 4th layer.



Notes on importing files and folders from discs and memory cards

- Some files and subfolders may not be displayed if more than 500 files and subfolders are included in one folder.
- Some files may not be displayed if more than 4,000 files* and subfolders are recorded on a CD/DVD (except BD).
- Folders saved on the 4th layer will not be displayed.
- * Including files other than JPEG.

When naming files and folders

- Names of albums and photos saved on the HDD can be no more than 16 characters.
- Do not use characters such as these: [<] [>] [|] ["] [/] [?] [*] ['] [] [\] [:] [•] [.] [] (space).
- File and folder names may not be displayed correctly if it does not comply with ISO 9660 Level 1, Level 2, and its extended format (Joliet).

Importing Music

HDD - BD-RE BD-R DATA DVD CD DATA CD

♦When importing from music CDs (page 45)

Content of single or multiple discs can be imported to the HDD at one time. Selection of specific title(s) for import is also supported. Import will be done at approximately 8x speed. The server saves the content from a Music CD as LPCM or MP3 files. For selection of the LPCM and MP3 import formats, see [Import Setting] of [Music Import Setting] (*page 111*).

♦When importing from data discs (page 46)

You can import by disc, folder, or track. (Multi-Disc Import is not available.)

WAV (.wav) and MP3 (.mp3) are the supported source formats (*page 47*).

◆After importing from discs

The most recent 30 tracks will be displayed in the [Newly Registered] folder. You can play these tracks in the same way as the other tracks on the HDD or the discs. See "*Playing newly registered music stored on the HDD*" (*page 71*).

♦When importing from a PC

"Music Transfer" software (supplied) allows for importing music files from PCs. See *page 49* for details.

ີ 🛱 Hint

You can turn off the server by pressing I/\bigcirc during music import. The operation continues even when the power is off.

Notes

- Tracks in the [Newly Registered] folder are linked to the original files on the HDD. If you erase the original files on the HDD, the tracks will be erased from the [Newly Registered] folder.
- Do not import music from DTS format music CDs. If the imported track is played, a loud noise may be output.

Importing audio tracks from music CDs

HDD ← CD

You can import multiple or single disc contents at one time, or by selecting tracks on the disc. Import will be done at approximately 8x speed.

ີ່ 🐺 Hint

Before importing to the HDD, search the AMG database for disc information (title, cover art, etc.). To edit the acquired metadata, see *page 87*.

To import content from multiple discs

- **1** Press HOME to turn on the Home Menu.
- 2 Select **J** to display the icons.
- **3** Select (•)) (Music) and press ENTER.
- 4 Select **O** and press OPTIONS. The Options menu appears.
- **5** Select [Import Multiple] and press ENTER. The disc selection display appears.



6 Select discs to import and press ENTER.

A check mark appears next to the selected title.

- To select all discs select [Select All].
- To clear all checkmarks, select [Clear All].

7 Select [OK] and press ENTER.

Disc Import starts and the following display appears with a progress bar.



To import content from a single disc

- **1** Press HOME to turn on the Home Menu.
- 2 Select 🞵 to display the icons.
- **3** Select ())) (Music) and press ENTER.
- **4** Select **•** and press OPTIONS.

The Options menu appears.



5 Select [Disc Import] and press ENTER. The following confirmation display appears.

Disc Import	●
This disc will be imported.	
•	Album Name-Disc 1 Total Number of Tracks: 13Track(s) (0.46:46) File Format Alber Import: 122) Data Size After Import:88.7MB Import Status:
	OK Cancel
	RETURN Finish

6 Select [OK] and press ENTER.

To import a single track

- **1** Press HOME to turn on the Home Menu.
- 2 Select 🞵 to display the icons.

- **3** Select ())) (Music) and press ENTER.
- 4 Select and press ENTER. The CD track list appears.
- **5** Select a track and press OPTIONS. The Options menu appears.



6 Select [Track Import] and press ENTER. The following confirmation display appears.



7 Select [OK] and press ENTER.

Importing audio files from data discs

You can import by disc, folder, or track. (Multi-Disc Import is not available.)

To import content from a single disc

- **1** Press HOME to turn on the Home Menu.
- 2 Select **J** to display the icons.
- **3** Select ())) (Music) and press ENTER.
- 4 Select and press OPTIONS. The Options menu appears.



5 Select [Disc Import] and press ENTER. The following confirmation display appears.



If the content is locked, a confirmation screen appears asking if you want to unlock and continue.

6 Select [OK] and press ENTER.

To import a folder

- **1** Press HOME to turn on the Home Menu.
- 2 Select **J** to display the icons.
- **3** Select (•)) (Music) and press ENTER.
- **4** Select **•** and press ENTER.
- **5** Select a folder to import and press OPTIONS. The Options menu appears.



6 Select [Folder Import] and press ENTER. The following confirmation display appears.



7 Select [OK] and press ENTER.

To import a single track

- **1** Press HOME to turn on the Home Menu.
- **2** Select **1** to display the icons.
- **3** Select ())) (Music) and press ENTER.
- **4** Select and press ENTER.
- **5** Select a folder and press ENTER. The Track List appears.
- **6** Select a track and press OPTIONS. The Options menu appears.



7 Select [Track Import] and press ENTER. The following confirmation display appears.



8 Select [OK] and press ENTER.

Notes and restrictions for music import

- Up to 1,000 tracks can be imported to one album. If more tracks are imported, a new album of the same name suffixed by a number will be created, and the rest of the tracks will be copied to the new album.
- You cannot import if the HDD contains more than 2,000 albums, or 2,000 artist information listings, or 40,000 tracks.
- Content information may not be retrieved from MP3 files.
- · Content information may not be displayed correctly if retrieved from the AMG database or MP3 files.
- · Music content imported from music CDs will be stored on the HDD in the following formats.
- -LPCM:
- Quantization bit rate: 16 bit Channel: Stereo (2ch)
- Sampling frequency: 44.1 kHz
- -MP3:
- Channel: Stereo (2ch) Sampling frequency: 44.1 kHz Bit rate*: 96/128/160/192/256 kbps
- * Bit rate for MP3 files is selectable in [Settings] [Import Settings] -[Music Import Settings] - [MP3 Conversion Rate].
- Files that you can import from data discs should be in the following formats:
- -WAV:
- Extension: .wav
- Quantization bit rate: 16 bit
- Channel: Stereo (2ch)
- Sampling frequency: 44.1 kHz
- Playback time: 75 minutes 30 seconds (max)
- -MP3:
- Extension: .mp3
- Supported codec: MPEG-1 Audio Layer III Channel: Monaural (1ch)/Stereo (2ch) Sampling frequency: 32/44.1/48 kHz Bit rate: 32/40/48/56/64/80/96/112/128/160/192/224/256/ 320 kbps
- Playback time: 2 hours and 30 minutes (max)

- · Each folder is recursively imported when importing entire data disc content. This recursive import does not occur when importing selected folders within a data disc.
- The following restrictions apply for data disc import:
- -Tracks on the 5th layer or under are not importable.



-Some files may not be imported if the file/folder total within a folder exceeds 1,000 on the disc. Keep the number of files and folders under 1,000.

➡continued

Importing to HDD

About file information retrieval

Content information is retrieved, and displayed as follows. Numbers in parentheses indicate priority.

	Music CDs	MP3 Files	WAV Files
Track names	 (1) Displays the AMG data, or (2) "Track 1", "Track 2" 	(1) Displays the data from file, or(2) File name without extension	File name without extension
Album names	 (1) Displays the AMG data, or (2) "Album", "Album 2"^{*1} 	 (1) Displays the data from file, or (2) ""*2 	,*2
Artist names for tracks and albums	(1) Displays the AMG data, or (2) ""* ¹	 (1) Displays the data from file, or (2) """^{*1}a 	""
Genre	 (1) Displays the AMG data, or (2) "No Genre" 	 (1) Displays the data retrieved and converted from the file^{*3}, or (2) "No Genre" 	"No Genre"
Track number	Track number	(1) Displays the data from file, or(2) (no track number)	(no track number)
Release date	(1) Displays the AMG data, or(2) (no release date)	(1) Displays the data from file, or(2) (no release date)	(no release date)

*1 Automatically named within the imported folder.
*2 A new album suffixed by a number is created when the number of tracks in the album exceeds 1,000.
*3 Will be mapped over the server's genre list.

Transferring Music Files From PCs

"Music Transfer" is software dedicated to transferring music stored on your PC to the Sony Home Entertainment Server (hereafter "Server"). The software sets a destination server, registers music files on the PC to its database, and transfers the registered files to the server.

- **1** Install "Music Transfer" on your PC.
- **2** Register the PC to the server.
- **3** Register the server(s) to "Music Transfer."
- **4** Register music files on the PC to the "Music Transfer" database and transfer them to the selected destination server.
- **5** Enjoy the transferred music on the server.

Making preparations

System Requirements

- CPU
- -800 MHz Pentium Processor or higher
- Memory
- -512 MB or more
- Required HDD capacity
- -50MB or more
- OS
- -Windows Vista Ultimate
- -Windows Vista Business
- -Windows Vista Home Premium
- -Windows Vista Home Basic
- -Windows XP Professional Edition, SP2
- -Windows XP Home Edition, SP2
- Windows XP Media Center Edition 2005 with KB900325
- -Windows XP Media Center Edition 2004 with KB830786
- -Windows 2000 Professional, SP4

To install "Music Transfer"

◆Before installing the software

Close all applications that are currently running. And since an administrator right is required for installation, you may need to log on entering the administrator's user name and password.

- **1** Start the PC and log on using the administrator's name.
- 2 Insert the supplied CD-ROM "Music Transfer Ver.1.00" into the CD driver on your PC. Installation starts automatically. If the installation does not start, click [My Computer], – designated CD drive – [Music Transfer], and then double-click [setup.exe].
- **3** Click [Next] to proceed.

When EULA (End User License Agreement) appears, click [Accept] after reading the content to accept the terms.

- **4** Follow the on-screen instructions.
- 5 When installation is complete, run the application by clicking [Start] – [All Programs] – [Music Transfer] – [Music Transfer].

Starting "Music Transfer"

 Click [Start] in the lower-left corner of the desktop, and point to [All Programs] – [Music Transfer], and then click [Music Transfer].

"Music Transfer" starts, searches for a server, and opens the main window.

See "To select the server" below and "Guide to the main window" (page 50) for details.



ϔ Hint

You can also start "Music Transfer" by double-clicking on the [Music Transfer] icon, if it is located on the desktop.

To register a PC to the server

• When [Settings] – [Network Settings] – [Music Server Settings] in [Client Registration] is set to [Auto] This operation is not necessary as the PC is registered to the server automatically.

• When [Settings] – [Network Settings] – [Music Server Settings] in [Client Registration] is set to [Manual] The PC needs to be registered to the server by following the steps below.

- **1 On your PC, start "Music Transfer" (see above).** The software searches for the server.
- 2 On the server, press HOME and select [Settings] – [Network Settings] – [Music Server Settings] – [Unregistered Device List] and register the PC using the device list (*page 122*).
- **3** Quit "Music Transfer" once and re-start the software.

The software searches for the server on the network. When the server is found, the server's status will be displayed (online/offline and the remaining HDD capacity).

To select the server

You can search and register your server(s) either automatically or manually.

Automatic server registration

If no server is registered and there is only one server on the network, the software searches for servers when opened. When only one server is detected on the network, the software registers it as the destination. You will need to manually register the servers in other cases.

ប៉្តិ Hints

- If multiple servers are found (8 servers max), a message appears asking you to select one as the destination.
- Even if you change the server's friendly name on the server, server registration will be unaffected. The server's MAC address works as the unique ID.

To register the server manually

1 On the File menu, click [Select Server].

The pop-up window appears with the list of servers.

Server Name	5	Status
Home Server	,	Online
Startup Server	Erase	Details

Items	Details
Server Name	Shows the friendly name(s).
Status	Shows if the server is online or offline. If you startup an offline server, its status changes from "Offline" to "Starting" and then "Online."
Startup Server	Starts up the selected server (when the server's [Standby Mode] is set to [Standard]).
Erase	Erases the selected server from the list. DELETE can be used as a short-cut.
Details	Shows the server's friendly name, MAC address, IP address, Model name, Remaining HDD capacity, etc. You can also display the details window by double- clicking the server listing. (If items such as IP address are not displayed entirely on the details window, pause on the item.)
Find Other Server	Searches for an unregistered server on the network.

2 Select a server as the destination and click [OK]. ♦When using multiple servers

- **1** Select a server as the destination. Up to the maximum of eight servers can be displayed on the pop-up window (scroll down).
- **2** Click [OK].

Using "Music Transfer"

Guide to the main window

The software uses a music file database as shown in the following main window.

Operations cover the following: 1) server registration, 2) file registration, 3) file transfer, or 4) file management.



A Menu bar

Most of the options and commands are selectable from the menu bar. Click the following items on the menu bar. The displayed menus are referred to as "File" menu, "Edit" menu, "Tools" menu, etc., in this section.

File

The "File" menu displays the following commands.

Items	Details
File Sync	Allows you to select a file to register. See <i>"To search for a folder" (page 52).</i>
Folder Sync	Allows you to select a folder to register its content. See " <i>To search for a folder</i> " (<i>page 52</i>).
Sync Settings	Sets a folder as the regular source and synchronizes the database with the folder*. Also, it displays file search settings such as file formats.
Select Server	Displays a list of servers for selecting the destination.
Exit	Quits the software.

* You can also sync by clicking the [Sync Folder] button.

Edit

Items	Details
Select All	Click here to select all files for transfer (files will be check-marked).
Clear All	Click here to cancel all selections.
Erase	Click here to erase files selected by mouse operations from the database.

View

Items	Details
Show Details	Displays information about the selected track. See "Additional right-click options" (page 51).
Change View	Switches between the four tab sheets ([All], [Available], [Excluded], or [Transferred]) when clicked. See the on-screen messages for explanations about the tab sheets and their headings.

Operations

Items	Details
Sync Folder	Synchronizes the files in the database with the files in the source folder (works the same as the Sync Folder button).
Transfer	Starts file transfer. You can also transfer by clicking the [Transfer] button.

Tools

The "Tools" menu displays the following commands.

Items	Details
Options	Displays options for file conversion. Some files need conversion before transfer. See <i>"Supported file formats" (page 52).</i>
Initialize Database	Erases all database content, including the server and file registrations. Click [Yes] or [No] when asked for confirmation.

Help

Items	Details
Help	Displays the online help.
Product Support	Displays the contact information.
About Music Transfer	Displays information such as the software version, license, and copyright.

B Sync Folder button

Click here when synchronizing the files in the database with the files in the source folder. See "*To register music files*" (*page 51*).

C Transfer button/Server information

Click here when transferring the selected files to the destination server. See *"To register music files" (page 51).*

Also displays the destination server information when available (online/ offline, and the HDD capacity).

D Music List

Use the Music List for file management. The list consists of four tab sheets: [All], [Available], [Excluded], and [Transferred]. Click on the tabs to check the following information.

All

Displays all files registered to the database.

Available

Displays files available for transfer (files that have not been transferred).

Excluded

Displays files excluded from transfer. Reasons are indicated in [Status].

Transferred

Displays transferred files.

About the tabs and displayed contents

Each tab sheet displays the file information under the same header.

Items	Details
Check Boxes	Click here to select files for transfer (check-marked). Grayed out boxes indicate a file cannot be transferred. Note that if all boxes are grayed out, no server is registered or set as a destination.
Name	Displays track name, or file name if track name is unavailable.
Time	Displays playback time.
Artist	Displays the artist name when available.
Album	Displays album name when available.

Items	Details
Last Synched	Displays the date registered to the database.
Date Transferred	Displays the date, destination, and status of transfer.
Status	Displays the file status ("Transferred," "Available," "Unavailable (DRM)," "Content Error," "Missing Track," "Transfer Error," "Incorrect Setting"). See also "Note about non-transferable files" (page 53).

◆Additional right-click options

1 Select a file by clicking the check box.

2 Right-click to display additional options.

Items	Details	
Show Details	Shows n as follow	nore details about selected tracks, vs.
	Show Details	X
	Name: Playback Time: Aburi: Release Dute: File Size: Genree: Format: Track Number: Last Synched:	The HR Combination 06:00 Senel Persisten 1998 5,005,634 Byte: Rock MrA 11 17 07/11/2007 16:44
	Date Transferred: Status: Location:	Available C-Woouments and SettingsWAdministrator Why DocumentsW
Select	Selects a	track for transfer.

Select	Selects a track for transfer.
Clear	Cancels the track selected for transfer.
Select All	Selects all data for transfer. CTRL + A can be used as a shortcut.
Clear All	Cancels all the current selections.
Erase	Erases the file from the database (original data remains on the PC). You can use DELETE as the shortcut key.

ϔ Hints

• If an item does not fit in the line, you can display the entire content by moving the pointer over the item.

• You can also turn on this window simply by double-clicking on the list.

• Error codes may appear in "Status." Refer to the server's Operating Instructions if transfer fails.

To register music files

The software uses a database for transferring music files. The database records the paths to the actual files on the PC and can be used for file management. Register the files to the database first by using the following methods:

-Setting a specific folder as the regular source to sync with.

-Searching for a folder or file.

Importing to HDC



You may not be able to retrieve metadata from some files. And, since WAV files do not contain metadata, their file information will not be displayed on the server. If necessary, edit the metadata on the server (*page 87*).

◆Supported file formats

The software supports WAV, MP3, AAC, WMA and ATRAC formats. To transfer these files, the software converts them to the formats supported by the server as follows:

- WAV files are converted according to the setting on the software, either LPCM or MP3.
- -AAC, WMA, and ATRAC files are converted only to MP3.
- -MP3 files are transferred without being converted.

The server supports the following LPCM and MP3 format files: • LPCM

- -Sampling rates: 44.1 kHz
- -Content audio channel modes: Stereo (2ch)
- -Quantization: 16 bit
- MP3
- -Sampling rates: 32 kHz, 44.1 kHz, 48 kHz
- -Content audio channel modes: Stereo (2ch), Mono (1ch)
- Bit rates: 32 Kbps, 40 Kbps, 48 Kbps, 56 Kbps, 64 Kbps, 80 Kbps, 96 Kbps, 112 Kbps, 128 Kbps, 160 Kbps, 192 Kbps, 224 Kbps, 256 Kbps, 320 Kbps
- -Encoding types: Constant Bit Rate (CBR), Variable Bit Rate (VBR)

Notes

- You can convert to LPCM only from WAV files of stereo, 44.1 kHz, and 16 bit. Other format files and WAV files that do not meet these specifications need conversion to MP3.
- Copy-protected music files are not transferable.

To set the source folder

When the software is opened for the first time, you will be asked to select a source folder, and whether you want to register its files.



- In the pop-up window, check the default folder.
 If the pop-up window does not appear (from the second time), click [Sync Settings] on the "File" menu.
 Proceed to step 4 when using the default folder.
- **2** Erase the current folder setting by clicking [Delete].
- **3** Click [Add] and select a folder. Also, check if other file search settings are appropriate.
- 4 Click [Start Synching Now] (checked by default). When this is checked, all files within the folder will be registered to the database when you click [OK] in step 6.
- **5** Click [OK].

When you want to sync the database with the source folder

Clicking the [Sync Folder] button on the main window is the simplest way.

Follow the steps below only if you need to check or change settings (e.g., source folder or target file format).

- **1** On the "File" menu, click [Sync Settings].
- 2 In the pop-up window, check if the other file search settings are appropriate. Change the folder if necessary.
- **3** Click [OK] on the pop-up window.

To search for a folder

- **1** On the "File" menu, click [Folder Sync]. The pop-up window appears.
- **2** Select a folder whose contents you want to register and click [OK].

🌣 Hints

- To register a single file, directly drag and drop the file on the main window. Or click [File Sync] on the "File" menu, select a file and click [Open].
- In "File Type for File Search," you can select to search for WAV (.wav), MP3 (.mp3), WMA (.wma), AAC (.3gp, .mp4, .m4a, .m4b, .m4p), or ATRAC (.oma, .omg) files, and register them to the database.

Note

The music files will not be registered if the format is not selected in "File Type for File Search".

To erase files from the database

The original data remains on the PC. The database saves or erases the file's path and the metadata only.

1 Click the files to erase in the main window. To select multiple files, click files while pressing SHIFT.

2 On the "Edit" menu, click [Erase].

ີ່ Hints

- You can select [Erase], [Select All], [Clear All] by right-clicking.
- To cancel all registrations, click [Initialize Database] on the "Tools" menu.

To transfer music files

1 On the "All" or "Available" tab sheet, select the files you want to transfer by clicking on the check box.

Eile	Music Transfe e <u>E</u> dit <u>V</u> iev	er w <u>O</u> perations	Iools Help		_
(F	All Availabl	e Excluded Tran	nsferred	Syn	© C Folder
	Transfer	Name	Time	Artist	
	Transfer	Name	Time 04:00	Artist	c
	Transfer	Name A B	Time 04:00 05:23	Artist B B	c c
	Transfer	A Name B C	Time 04:00 05:23 04:09	Artist B B B	c c c
	Transfer	A B C D	Time 04:00 05:23 04:09 04:34	Artist B B B B	с с с с
	Transfer	A B C D E	Time 04:00 05:23 04:09 04:34 02:33	Artist B B B B B B	

2 Click the [Transfer] button, or click [Transfer] on the "Operations" menu.

To change the transfer method

Before transfer, the software converts WAV, WMA, AAC, and ATRAC files to formats playable on the server — WAV files to LPCM or MP3; and WMA, AAC, ATRAC files to MP3. You can select the conversion settings.

1 On the "Tools" menu, click [Options].

Select the method for WAV conversion	
Encoding Method:	
WAV files will be converted to LPCM or MP3 format before transfer. Select Bit Rate for MP3 Conversion	
Bit Rate: Auto	

2 Select the format for WAV files, from LPCM or MP3.

3 Select the bit rate for MP3 files.

When [Auto] is selected, the optimum bit rate will be assigned to each MP3 file.

Bit rate is fixed to 128 kbps when converting WAV to MP3 with [Bit Rate] set to [Auto].

ີ່ Hint

You can turn off the server by pressing I/O while "Music Transfer" is running. The operation continues even after the server is turned off.

Notes

- Music files cannot be transferred when the server is:
- importing data (photo, music, video, or "x-ScrapBook") to the HDD.
- $-\operatorname{copying}$ photos and videos to a disc.
- playing music recorded on the HDD.
- playing a photo.
- playing, creating, or copying "x-Pict Story" files.
- sharing music.
- changing the server settings.
- The same restrictions apply as the music file import (page 47).

Note about non-transferable files

Non-transferable files are so indicated in "Status." The messages include the following meanings.

Messages	Meanings
Unavailable (DRM)	The file is protected against copying by Digital Rights Management (DRM).
Content Error	Indicates one of the following. 1) The file is broken, 2) not recorded in a supported format, 3) format conversion failed, or 4) playback time exceeded the limit (75 min 30 sec for WAV, 2hrs 30 min for other formats), 5) the file name is too long.
Missing Music	The data is no longer found on the registered path.
Transfer Error	Transfer failed due to an error that occurred during transfer. The file itself may be transferable if you try again.
Incorrect Setting	Indicates that the WAV to LPCM conversion has failed. The file may be transferable if you convert the WAV file to MP3. See "Supported file formats" (page 52).

Watching BD/DVD Videos

Enjoying Videos, Photos, and Music



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• Various Video Playback Operations 58
• Adjusting Pictures and Sound for Videos 59
• Viewing Photos Recorded on the HDD 60
• Viewing Photos Recorded on the Removable Media
• Various Photo Playback Operations
• Using "x-ScrapBook"
• Using "x-Pict Story HD"
• Playing a Slideshow
• Playing Music CDs, DATA BDs, DATA DVDs, and DATA CDs
• Playing Music Stored on the HDD
• Various Music Playback Operations
• Playing Music in Other Rooms
• Playing the Same Music on All Client Devices ("PARTY MODE")

BD BD-RE BD-R DVD +RW -RWVR -RWVideo +R

- Press HOME to turn on the Home Menu.
- **2** Select **1** to display the icons.



3 Select (°)) (Personal Video) or (°)) (BD/ **DVD** Movies) and press ENTER.

Video	
• •	Blank(Formatted) Disc 4 DVD-R VR
•	7/ 6/2007 - 7/13/2007 BD-R
•	7/13/2007 DVD-RWVIDEO
•	Disc 9 DVD-RW VIDEO

4 Select a disc and press ENTER.



5 Select a title and press ENTER.

To stop playback, press \blacksquare .

- You can view the BD/DVD content by grouping them into folders by title, genre, cast, or director, if you press OPTIONS or YELLOW button (page 55).
- You can directly start playing the disc in the disc tray by touching on the top panel.

About icons on the Title List

The following icons appear next to the titles, indicating the status of the title. Note that not all icons are displayed in this sample display.



►: Currently playing. : Copying is not allowed. Content is copy-protected.

ϔ Hints

About the disc listings for BD-ROMs and DVD-ROMs



1 Title names

2 Names of directors and casts D: Director name C: Cast name

To use the BD's or DVD's menu

◆About Top Menu

Some commercially available BD-ROMs and DVD VIDEOs, or a DVD+RW, DVD-RW (Video mode), DVD+R, DVD-R (Video mode) have their own menus. Press TOP MENU during playback to display the Top Menu and make a selection.

◆About pop-up menus

Some BD-ROMs contain pop-up menus that appear without interrupting playback. Press POP UP/MENU during playback and select the items.

Navigate through the menu using the Joystick, color buttons, or the number buttons following the on-screen instructions.

To play a locked BD-RE or BD-R

When the password input screen appears, enter the four-digit password, select [OK] and press ENTER. See *page 34* about the lock setting.

Available OPTIONS

The Options menu appears when you press OPTIONS. The available items differ depending on the situation.

Available OPTIONS when selecting BD content

Items	Details Displays the following items. • Erase Titles	
Function/Edit		
Sort By	Changes the title order. • Recent First • Oldest First • Title • Control ID	
Group Content	Displays titles by categories. • All • Genres • Casts • Director You can also toggle them by pressing YELLOW.	

Items	Details
Play	Resumes playback from the stop point. Resume Play is canceled when: – The disc tray is opened. – The title is edited after playback is stopped. – Resume Play is prohibited by the disc's specification.
Play from Beginning	Plays the title from the beginning.
Protect/Protection Cancel	Sets or cancels protection on the title.
Information/Settings	Displays the title information and the related settings.

Available OPTIONS when selecting DVD content

Items	Details
Function/Edit	Displays the following items. • Erase Titles
Sort By	Changes the title order. • Recent First • Oldest First • Title • Control ID
Group Content	Displays titles by categories. • All • Genres • Casts • Director You can also toggle them by pressing YELLOW.
Play	Resumes playback from the stop point. Resume Play is canceled when: – The disc tray is opened. – Other title is played. – The title is edited after playback is stopped. – Another recording is added (except DVD-RW (VR mode)/DVD-R (VR mode)). – Resume Play is prohibited by the disc's specification.
Play from Beginning	Plays the title from the beginning.
Protect/Protection Cancel	Sets or cancels protection on the title.
Information/Settings	Displays the title information and the related settings.

Available OPTIONS during playback

Items	Details
Disc Information	Displays BD/DVD information.
A/V Settings	Allows you to adjust settings for picture and sound (<i>page 59</i>).
Play from Beginning	Plays the title from beginning.
Scan/Cancel Scan	Plays the title fast, with sound (BD-R and BD-RE only).
Stop	Stops playback.
Erase	Erases the title.
Protect/Protection Cancel	Sets or cancels protection on the title.

→ continued

Enjoying Videos, Photos, and Music

Items	Details
Information/ Settings	Displays the details about the title.
Search Chapter	Searches for the selected chapter. Enter the chapter number using the number buttons.
Slow	Plays the title slowly (BD-ROM only).
Eject	Ejects the disc.

Notes

- Depending on the BD-ROM, the disc may not play properly if you have changed the BD Parental Control setting during playback. You will need to remove the BD-ROM once and then re-insert it to re-start.
- Titles may not be sorted correctly if the title list contains long names that exceed 60 characters.
- The original title name may not be displayed if the DVD is recorded on other devices.
- Thumbnails may be slow to appear.
- Thumbnails may not be displayed depending on the operation status.
 For titles of mixed aspect ratio (16:9 and 4:3) recorded on a DVD-RW (VR mode) and DVD-R (VR mode), aspect ratio of their thumbnails
- may be incorrect.If no thumbnail appears, try playing the content once.
- BD-REs/BD-Rs do no play if bit stream data of the ATSC broadcast is recorded in DR mode. The discs will play if recorded in SESF.

To change the group content

BD DVD

- **1** Press HOME to turn on the Home Menu.
- 2 Select 🖽 to display the icons.
- **3** Select (•)) (BD/DVD Movies) and press YELLOW repeatedly.

The view of the listings changes with each press as follows:

- All
- Genre
- Casts
- Director

Notes

• The View setting will display the [BD/DVD Movies] folder content as follows:

All: Displays "BD/DVD Movies" folder.

- Genres: Displays folders by genre.
- Casts: Displays folders by cast.
- Director: Displays folder by director.
- Depending on the number of recorded albums, the view may be slow to change.
- The [Others] folder contains the following discs:
- Unknown discs (Discs that have not been registered yet)
- Blank discs (Unformatted discs)
- Unreadable discs (Error discs)
- Software update discs

Watching Videos on the HDD

- **1** Press HOME to turn on the Home Menu.
- **2** Select **1** to display the icons.









4 Select a title and press ENTER. To stop playback, press ■.



About icons on the Title List

The following icons appear next to the titles, indicating the status of the title.



Currently playing.

Can be copied to a DVD-RW (VR mode) with CPRM or DVD-R (VR mode) with CPRM only.

: Copying is not allowed. Content is copy-protected.

NEW: The title has not been played yet.

ORG : Original title.
PL : Playlist title.
î : Protected title.
Currently importing or copying.
(displayed in gray): Currently in a queue waiting for
copying.
• (red): recording.
Chasing playback.

Available OPTIONS

The Options menu appears when you press OPTIONS. The available items differ depending on the situation.

Available OPTIONS when selecting HDD content

Items	Details
Function/Edit	Displays the following items. • Erase Titles • Create Playlist • Combine Titles
Sort By	Changes the title order. • Recent First • Oldest First • Unviewed First • Title
Import Status	Displays progress of the current import operation.
Copy Status	Displays progress of the current copy operation.
Title List	Displays video titles stored on the HDD.
Play	Resumes playback from the stop point. Resume Play is canceled when the title is edited after playback is stopped.
Play from Beginning	Plays the title from the beginning.
Stop Import	Stops the current import operation.
Erase	Erases the title.
Protect/Protection Cancel	Sets or cancels protection on the title.
Edit	Displays the following items. • Set Chapter Marks • Erase Chapter • Edit Chapter • A-B Erase • Divide Title
Copy to Disc	Copies the titles in the folder to a disc (for Personal Videos on the HDD only).
Information/Settings	Displays the title information and the related settings.

\blacklozenge Available OPTIONS during playback

Items	Details
HDD Information	Displays HDD information.
A/V Settings	Allows you to adjust settings for picture and sound (<i>page 59</i>).
Play from Beginning	Plays the title from beginning.
Degining	
Scan/Cancel Scan	Plays the title fast, with sound.
Stop	Stops playback.
Erase	Erases the title.
Protect/Protection Cancel	Sets or cancels protection on the title.

Items	Details
Information/ Settings	Displays the details about the title.
Search Chapter	Searches for the selected chapter.

Various Video Playback Operations

HDD BD-RE BD-R DVD +RW -RWVR -RWvideo +R -RvR -Rvr RAM AVCHD



100 seconds and shorter than 100 hours.

Adjusting Pictures and Sound for Videos

Adjusting the picture quality

1 When playing a video title or viewing an external video input picture, press OPTIONS to turn on the Options menu.

2 Select [A/V Settings] – [Picture Settings] and press ENTER.

The following items appear.

Items	Details
FNR ^{*1}	Reduces noises appearing in the picture.
BNR ^{*1*3} / MNR ^{*1*2*3}	Adjust the signals to reduce mosaic-like block noises and minor noises around the picture outlines (mosquito noises).
Sharpness	Sharpens the picture outlines.
A/V Sync	Adjusts the gap between picture and sound, by delaying the sound output in relation to the picture output (0 to 100 mili- seconds).
Adjust Picture ^{*3}	 Adjusts each of the following picture elements: Select an item and press ENTER. Contrast: Changes the contrast. Brightness: Changes the overall brightness. Chroma: Makes deep colors deeper, or light colors lighter. Hue: Changes overall color balance.

*1 Cannot be used for BD-ROMs or discs recorded in AVCHD format.

*2 Effective only for Standard Definition pictures.

*3 Effective for the video title currently being played.

3 Select a setting and press ENTER.

You can return these settings to the defaults by selecting [Reset].

4 Select or adjust the settings and press ENTER.

The default settings are underlined.

Items	Details
FNR	(weak) Off 1 <u>2</u> 3 (strong)
BNR/MNR	(weak) Off $1 \ \underline{2} \ 3$ (strong)
Sharpness	(weak) $-3 \sim \underline{0} \sim 3$ (strong)
A/V Sync	(short) $\underline{0} \sim 100 \text{ msec}$ (long)
Adjust Picture	
Contrast	(weak) $-3 \sim \underline{0} \sim 3$ (strong)
Brightness	(dark) $-3 \sim \underline{0} \sim 3$ (bright)
Chroma	(light) $-3 \sim \underline{0} \sim 3$ (deep)
Hue	(red) $-3 \sim \underline{0} \sim 3$ (green)

Repeat steps 3 and 4 to adjust any other items.

Ϋ́ Hint

The server is equipped with "D Matrix NR HD" and "D Matrix NR" functions that automatically adjust the [FNR], [BNR/MNR] settings according to the noise level in the current playback pictures. Manual adjustment of these items changes the effectiveness of "D Matrix NR HD" and "D Matrix NR."

Each is effective for different title types: "D Matrix NR HD" is for High-Definition quality videos; "D Matrix NR" is for Standard-Definition quality videos.

Adjusting the audio quality (Audio Filter)

Note

This function does not work for digital audio signals output from the DIGITAL OUT (OPTICAL/COAXIAL) jacks.

1 When playing a video title or viewing an external video input picture, press OPTIONS to turn on the Options menu.

2 Select [A/V Settings] – [Audio Filter] and press ENTER.

The following items appear.

Items	Details
Sharp	Provides a wide frequency range and spatial feeling. Normally select this.
Slow	Provides smooth and warm sound.

3 Select an Audio Filter setting and press ENTER.

About audio output when playing BD-ROMs

The server outputs Dolby^{*1} Digital signals when Dolby True-HD or Dolby Digital Plus is selected, and DTS^{*2} signals when DTS-HD is selected.

*1 Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

 $*^2$ "DTS" is a registered trademark of DTS, Inc. and "DTS 2.0 + Digital Out" is a trademark of DTS, Inc.

Adjusting audio input signals

- **1** When viewing external input picture, press **OPTIONS.**
- 2 Select [A/V Settings] [Audio Input Settings] and press ENTER.

The following items appear.

Items	Details
LINE 1 Level Adjust	Adjusts audio input level for LINE IN 1 jacks.
LINE 2 Level Adjust	Adjusts audio input level for LINE IN 2 jacks.

3 Select [LINE 1 Level Adjust] or [LINE 2 Level Adjust] and press ENTER.

59



5 Press RETURN.

Adjusting recording pictures for external input

- **1** When viewing the external input, press **OPTIONS.**
- 2 Select [A/V Settings] [Rec Settings] and press ENTER.

The following items appear.

Items	Details
Rec DNR	Reduces picture noises in the recording video signals. Noisy scenes are detected and adjusted automatically with the noise reduction function.
Picture Adjustment	 Adjusts each of the following picture elements: Select an item and press ENTER. Contrast: Changes the contrast. Brightness: Changes the overall brightness. Chroma: Makes deep colors deeper, or light colors lighter. Hue: Changes overall color balance.

3 Select a setting and press ENTER.

You can return these settings to the defaults by selecting [Reset].

4 Select or adjust the settings and press ENTER.

Viewing Photos Recorded on the HDD

HDD

Many options are available for photo playback, including slideshow and file search.

You can enjoy "x-applications" ("x-ScrapBook" and "x-Pict Story HD") if you import photos to the HDD. See page 64.



1 Press HOME to turn on the Home Menu.









4 Select a photo and press ENTER.

To display the previous or next photo, press **I** or

With digital still cameras, the displayed layer differs depending on the model.

Ϋ́ Hint

When viewing a photo shot with 16:9 (HDTV size) setting on a TV, black bands may appear on the top, bottom, left, and right of the photo. See [Video Output Aspect Ratio] (page 112) and change the server's output aspect ratio setting to 16:9. For changing the viewing mode setting, see your TV's manual.

Available OPTIONS

The Options menu appears when you press OPTIONS. The available items differ depending on the situation.



Available OPTIONS while selecting albums

Items	Details	
Slideshow Pace	Sets the pace for slideshow.	
	• Fast	
	• Normal	
	• Slow	
Slideshow	Plays a slideshow.	
View x-ScrapBook	Displays the "x-ScrapBook" album.	
Create x-Pict Story	Creates an "x-Pict Story" file from the	
HD	album.	
Erase	Erases the albums, photos on the HDD.	
Information/Settings	Displays information about the album or photo.	

Available OPTIONS while selecting files

Items	Details	
Still Pictures	Displays items for file management. • Copy Multiple • Erase Multiple	
Slideshow Pace	Sets the pace for the slideshow. • Fast • Normal • Slow	
View	Shows the photo.	
Slideshow	Plays a slideshow.	
Rotate (left)	Rotates the photo counterclockwise by 90 degrees.	
Rotate (right)	Rotates the photo clockwise by 90 degrees.	
Сору	Copies the photo to HDD.	
Erase	Erases the albums, photos on the HDD.	
Information/Settings	Displays information about the album or photo.	

♦Available OPTIONS during playback

Items	Details
Slideshow Pace	Sets the pace for slideshow. • Fast • Normal • Slow
Search File	Enter the file number using the number button.
Stop	Stops playing the slideshow.

ltems	Details	
Rotate (left)	Rotates the photo counterclockwise by 90 degrees.	
Rotate (right)	Rotates the photo clockwise by 90 degrees.	

Viewing Photos Recorded on the Removable Media

BD-RE BD-R DATA DVD DATA CD M.S. CF SD xD

1 Press HOME to turn on the Home Menu.

2 Select **o** to display the icons.





3 Select one of the removable media.

When displaying folders, select a folder to view, press ENTER.

4 Select a photo and press ENTER.

To display the previous or next photo, press 🖛 or

With digital still cameras, the displayed layer differs depending on the model.

Available OPTIONS

The Options menu appears when you press OPTIONS. The available items differ depending on the situation.

ltems	Details Displays items for file management. • Import Multiple Sets the pace for slideshow. • Fast • Normal • Slow	
Still Pictures		
Slideshow Pace		
View	Shows the photo.	
Slideshow	Plays a slideshow.	
Import	Copies the photo to HDD (page 42).	
Information/Settings	Displays information about the album or photo.	

Available OPTIONS during playback

Items	Details Sets the pace for slideshow. • Fast • Normal • Slow	
Slideshow Pace		
Search File	Searches for a file when the file number is entered with the number buttons.	
Stop	Stops playing the slideshow.	
Rotate (left)	Rotates the photo counterclockwise by 90 degrees.	
Rotate (right)	Rotates the photo clockwise by 90 degrees.	
Eject	Ejects the disc (for disc only).	

Note

The [Others] folder contains the following discs:

- Unknown discs (Discs that have not been registered yet)

- Blank discs (Unformatted discs)

- Unreadable discs (Error discs)

- Software update discs

Various Photo Playback Operations

```
HDD BD-RE BD-R DATA DVD DATA CD M.S. CF SD xD
```



Durt	h / F
But	tons/Functions
1	YELLOW YELLOW
	- Switches the viewing mode for "x-ScrapBook" (page 64) (HDD only).
2	←/→
	- Turns pages or selects photos on "x-ScrapBook" (page 64) (HDD only).
3	RETURN
	- Returns to the previous display.
4	
	– Displays the previous or next photo.
5	
	– Stops or pauses playback.

Using "x-ScrapBook"

HDD

"x-ScrapBook" offers compelling slide show that the server automatically arranges to explore your memories in a personalized digital scrapbook. Since the application allows for adding home videos and "x-Pict Story" video titles, you can enjoy both photos and videos in a single album.



"x-ScrapBook" has the following functions:

- -"Browsing the album"
- Two playback modes are available for browsing the created content.
- "Adding video titles to the album" (page 65)
- "Changing the design theme" (page 65)
- -"Copying "x-ScrapBook" albums to BD/DVD" (page 99)

About "x-Application"

("x-Application") is a brand name for Sony-designed and advanced applications that mix, arrange and metamorphose various visual and sound content.

The application suggests new emotional and easy ways for enjoying the content.

Browsing "x-ScrapBook" album



2 Select **o** to display the icons.

3 Select (x-ScrapBook) and press ENTER. Thumbnails of created albums appear.





To display the album information, press DISPLAY.

When a video title of the same shooting period is found on the HDD

After step 4, the display asks if you want to add the video title to the album of the same shooting period. When you select [Yes], the album appears with the added video title. You can manually add the video title later even if you select [No] (*page 65*).

Album viewing modes

For photo/video content browsing, two playback modes are available: Page mode and Cursor mode. The Page mode is for browsing the entire album as if you are turning pages of a photo album. The Cursor mode allows for individual selection of photos and video titles on a page for zooming or video playback. You can switch the viewing modes by pressing YELLOW on the remote.

◆Page mode

Press \longleftrightarrow to turn pages. Or, enter the page number using the number buttons. When you reach the desired page, press YELLOW so you can play the individual video title or photo full screen using the cursor in the Cursor mode below.



◆Cursor mode



A video icon is displayed by the video thumbnail image. To play full screen, select the desired photo or video title and press ENTER. To stop playback, press \blacksquare .

To turn pages, select the left-most or the right-most photo or video title, and press $\leftarrow \rightarrow \uparrow \downarrow$.

ϔ Hints

- When importing new photos of the same shooting period or deleting a photo that is used in a "x-ScrapBook" album from HDD, album of the same period will be added or deleted automatically.
- The cursor does not appear on the front or back cover.

Available OPTIONS while selecting x-ScrapBook

Items	Details Sets the pace for slideshow. • Fast • Normal • Slow	
Slideshow Pace		
Information/Settings	Displays information about the album or	

Available OPTIONS while selecting files

Items	Details	
Copy to Disc	See "Coping Photos" for details (page 99).	
Play	Display the file.	
Edit	Displays the following edit options for "x-ScrapBook" albums: • Change Theme (<i>page 65</i>) • Add Video (<i>page 65</i>) • Remove Video (<i>page 65</i>)	
Information/Settings	Displays information about the album or photo.	

Available OPTIONS during playback

Items	Details	
Cursor Mode/Page Mode	Switches the viewing modes for the "x-ScrapBook" album (<i>page 64</i>).	
Stop	Stops playback of the "v-ScrapBook"	
Stop	album.	
Edit	Displays the following edit options for "x-ScrapBook" albums: • Change Theme (<i>page 65</i>) • Add Video (<i>page 65</i>) • Remove Video (<i>page 65</i>)	
Page Search	Opens the desired page of the "x- ScrapBook" album. Use the number buttons to enter the page number.	

Adding video titles to the "x-ScrapBook" album

- **1** Press HOME to turn on the Home Menu.
- **2** Select **o** to display the icons.
- **3** Select (x-ScrapBook) and press ENTER.
- **4** Select an album to edit and press OPTIONS.
- **5** Select [Edit] and press ENTER.
- 6 Select [Add Video] and press ENTER.



Thumbnail images may not display in some cases. If the video title does not contain the shooting date, the video will be added to the end.

- **7** Select a video title to add and press ENTER.
- 8 When you finish selecting, select [OK] and press ENTER.
- **9** Select [Yes] and press ENTER.

To delete video titles from the album

1 After step 5, select [Remove Video] and press ENTER.

Cancel Video Selection	Superb view 20070713
Select the title link(s) you want to cancel.	OK Cancel
● ₩ HDV 7/13/2007 3:34PM - 7/13/2007 3:35PM GG 7/13/2007 3:34PM (0+01M) IFT	Select All
	RETURN Finish

- **2** Select video titles to delete and press ENTER.
- **3** When you finish selecting, select [OK] and press ENTER.
- **4** Select [Yes] and press ENTER.

ີ່ 🖞 Hint

If you have converted "x-Pict Story" files to video titles beforehand, you can add the "x-Pict Story" video titles to the album (*page 68*).

Changing the design theme

- **1** Press HOME to turn on the Home Menu.
- **2** Select **o** to display the icons.
- **3** Select (x-ScrapBook) and press ENTER.
- **4** Select an album to edit and press OPTIONS.
- **5** Select [Edit] and press ENTER.
- **6** Select [Change Theme] and press ENTER.

💽 Change	e Theme	Kindergarten #20070710
Select a the	eme.	
20	Wedding	Cancel
e ș e	Birthday	
Po	Graduation	
	Baby	
	Beach	
Y Zoom in/Zo	om out	RETURN Finish

To enlarge, press YELLOW.



Notes on "x-ScrapBook"

- When you edit an album, the previous playback point will not be retained.
- You cannot add the same video title to an album multiple times.
- The album content may change if its video title is edited. Changes such as video content (replacement with the edited version or only a photo), location within the album, or deletion from the album may result.
- Albums will be erased if the source folder or its files are deleted from the HDD.
- · Compared to the operations on the HDD, playback options for copied discs are limited.

Using "x-Pict Story HD"

HDD

X-Pict Story HD is creating original personal movies from photo with sophisticated face-recognition technology and syncs transitions with music selected by CDs.

You can enjoy the created "x-Pict Story" file as it is, or convert it to an SD (Standard Definition) video title so you can copy to a disc and play it on other devices. The converted video title can be edited (page 79), or added to a "x-ScrapBook" album (page 65).

For details about SD and HD picture quality, see page 100.

Note

Use the preset music if you plan to give the BD/DVD to others after copying. Note that the materials are copyrighted and except for personal enjoyment, unauthorized use is against the copyright law. Sending the copyrighted material outside the home network, or saving the material in a place accessible by unauthorized third parties is also prohibited by the copyright law.

1 Press HOME to turn on the Home Menu.





3 Select (Create x-Pict Story HD) and press ENTER.

The photo album selection display appears.

Create	x-Pict Story HD - Select	Album	
Select an al	bum		
			Cancel
Photo	KYOTO Story		
Photo	Ancient city 20070713 11/25/2005 - 11/27/2005	Number of Files:8	
Photo	Capital 0713 11/25/2005 - 7/13/2007	Number of Files:4	
			(RETURN) Finish



4 Select an album to make an "x-Pict Story" file from, and press ENTER.

The music selection display appears.



When selecting from the preset music or tracks previously imported, go to step 9.

5 Select [Import] and press ENTER.

The CD selection display appears.

	x-Pict Story HD - Select CD	
Select a CD	to import.	
		Cancel
•	The Best of Cinnamon roll Paddy bird	
•	Disc 10	
		(RETURN) Return

- Music on the HDD is not selectable.
- · Observe the copyright law when using any copy-righted content.

6 Select a source disc and press ENTER.

The track selection display appears.





7 Select a track to import and press ENTER.

The music is played during import. The music selection display re-appears with the imported track. The display retains up to five tracks.

8 Select a track for music and press ENTER.

The theme selection display appears.



When you select [Select Mode], you can set the length of the "x-Pict Story" file.

[Auto-Adjust]: Matches the length of the audio track and number of photos used automatically.

[Use Entire Track]: Plays the entire audio track.

[Use All Photos]: Plays all photo files.

Note that:

- Not all photos in the selected folder appear in the created "x-Pict Story" file when you select the preset music or when you select [Use Entire Music], as the number of photos changes according to the music length.
- If you import an audio track that lasts more than 70 minutes, the created "x-Pict Story" file may not play properly.

9 Select a design theme and press ENTER.

The created "x-Pict Story" file plays for preview.



10 Press ENTER or ■.

The confirmation screen appears.

If you do not want to include the time display in the "x-Pict Story" file, press HOME and select [Settings] - [Photo Settings] - [x-Pict Story HD Time Display] (page 115).

The file name is the same as the album name.



Select if you want to make a video title from the "x-Pict Story" file.

You can make a video title later even if you select [No] (page 68).

[Yes]: Creates an SD video title from the "x-Pict Story" file and saves it on the HDD. Wait until creation finishes (the "x-Pict Story" file plays for the whole time) or if you want to cancel the creation, press RETURN.

When complete, the album name will be set as the title. If you want to change the title, select [Rename], press ENTER, and see "Entering Characters" (page 90).

Later, the video title can be viewed from the "x-Pict Story" icon under the Video icon on the Home menu. [No]: Saves the created "x-Pict Story" file on the HDD without making an SD video title. You can play the "x-Pict Story" file by selecting [Photo] - [x-Pict Story HD].

12 Select [Start] and press ENTER.

ີ່ 🐺 Hint

You can also make a "x-Pict Story" file from the OPTIONS menu. Select an album from the Photo icon on the Home menu, press OPTIONS and select [Create x-Pict Story HD].

Available OPTIONS

The Options menu apperas when you press OPTIONS. The displayed items differ depending on the situation.

Available OPTIONS while selecting x-Pict Story HD

Items	Details
Slideshow Pace	Sets the pace for slideshow. • Fast • Normal • Slow
Information/Settings	Displays information about the album or photo.

Available OPTIONS while selecting "x-Pict Story" files

Items	Details
Play	Display the file.
Erase	Erases the selected "x-Pict Story" file.
Convert to Video Title	Converts the file to an SD quality video title.
Information/Settings	Displays information about the album or photo.

To play the "x-Pict Story" file

- **1** Press HOME to turn on the Home Menu.
- 2 Select of to display the icons.
- **3** Select the 🖾 and press ENTER.
- **4** Select the "x-Pict Story" file you want to play and press ENTER.

To make a video title from the "x-Pict Story" file

- **1** Press HOME to turn on the Home Menu.
- 2 Select o to display the icons.
- **3** Select 🖾 and press ENTER.
- **4** Select the "x-Pict Story" file that you want to make a video title from and press OPTIONS.



5 Select [Convert to Video Title] – [Start] and press ENTER.

Wait until creation finishes (the file plays for the whole time). Or if you want to stop, press RETURN. The video title created only halfway will be saved on the HDD.

When complete, the album name will be set as the title. If you want to change the title, select [Rename], press ENTER, and see "*Entering Characters*" (*page 90*). Later, the video title can be viewed from the Video icon on the Home menu.

To erase an "x-Pict Story" file

- **1** Press HOME to turn on the Home Menu.
- 2 Select of to display the icons.
- **3** Select **and press ENTER**.
- **4** Select the "x-Pict Story" file you want to erase, and press OPTIONS.
- **5** Select [Erase] and press ENTER.
- **6** On the confirmation display, select [Yes] and press ENTER.

Notes

- The "x-Pict Story" file will be erased If you delete any photo from the source album.
- Faces may not be recognized correctly depending on the photo file.

Notes on "x-Pict Story HD"

- When an "x-Pict Story" file is converted to a video title, its HD (High Definition) quality pictures turn into SD (Standard Definition) quality pictures.
- "x-Pict Story" files will be erased if any photo in the source folder is deleted.
- "x-Pict Story" files may be copied only partially depending on the CD.

When playing the "x-Pict Story" file

- "x-Pict Story" files may not play correctly if you connect or disconnect the following devices:
- -HDV/DV devices
- -HDMI devices
- Sections in the picture may look swayed depending on the output resolution, images in the photo, or the visual effects.

When making a video title out of a "x-Pict Story" file

- The remote does not work during conversion.
- The created "x-Pict Story" files will not be played or saved in the following case:
- -When importing data to the HDD
- Not all photos are used when [Use Entire Track] or [Auto-Adjust] are selected, or when the folder contains many photos.



• To pause the slideshow press **II**. To resume, press **II** again or press \triangleright .

🛱 Hints

- · You can start the slideshow from the Options menu. Press OPTIONS when an album or a photo is selected.
- A slideshow also starts if \triangleright is pressed while a photo is displayed on the TV.

Notes

- · When reaching the end of an album, playback re-starts from the beginning.
- · Playback time of each photo may differ depending on the files in the album.
- Do not remove a memory card while its card indicator is flashing. The data may be damaged.
- · When importing a folder, only the photos directly under the folder can be imported. No photos can be imported from the sub folder.

Playing Music CDs, DATA BDs, DATA DVDs, and DATA CDs

BD-RE BD-R DATA DVD CD DATA CD

You can play music CDs, data BDs, data DVDs, and data CDs.

Supported file format

MP3 and WAV format

Notes

• For MP3, only MPEG1 Audio Layer3 format is supported. • The server supports WAV format files recorded in 44.1 kHz, 16 bit, and stereo.



2 Select \prod to display the icons.





4 Select **•** and press ENTER.

Tracks appear in the recorded order. To play an entire album, press \triangleright instead of ENTER.

5 Select a track to play and press \triangleright . For other playback operations, see page 73. To stop, press ■.

Note

- The [Others] folder contains the following discs:
- Unknown discs (Discs that have not been registered yet)
- Blank discs (Unformatted discs)
- Unreadable discs (Error discs)
- Software update discs

Available OPTIONS

The Options menu appears when you press OPTIONS. The available items differ depending on the situation.

For playing music recorded on the discs, the availability differs as in the following four situations.

Available OPTIONS while selecting discs

Items	Details
Sort By	Re-orders the albums. • Album Name • Artist Name
Import Multiple	Allows for multiple disc import. (for Music CD only)
Play	Plays tracks in the album.
Disc Import	Imports tracks on the selected disc.
Information/Settings	Displays the disc information.
Eject	Eject the disc.

Available OPTIONS while selecting music folders

Items	Details
Play	Plays tracks in the folder.
Folder Import	Imports the selected folder.
Information/Settings	Displays the folder information.

Available OPTIONS while selecting tracks

Items	Details
Play	Plays tracks.
Track Import	Imports a single track from a disc.
Information/Settings	Displays track information.

Available OPTIONS during playback

Items	Details
Play from Beginning	Plays the title from beginning.
Play	Plays the selected track.
Stop	Stops playing the track.
Information/ Settings	Displays the details about the title.
Eject	Ejects the disc.

Notes

- Playback of CD-Rs created in multi-session is limited to its single session parts.
- If ".mp3" is added to a file other than MP3, the server may play the file, damaging the connected devices.

Notes on playing DTS soundtracks

- When playing DTS sound recorded on a CD, the analog AUDIO L/R jacks output excessively loud noise. Noise may be output even when the connection is digital depending on the playback condition. To avoid damaging your system, attention is required when connecting the server's analog output jacks to an AV amplifier.
- To enjoy DTS Digital Surround[™] playback, you will need to connect a 5.1ch DTS Digital Surround[™] decoder to the server's digital output jack. If you connect the server to an AV amplifier without a DTS decoder and play a DTS CD, noise may be output from the connected speakers.

ີ່ 🐺 Hint

You can enjoy music more with advanced playback functions such as Shuffle Play and Repeat Play once you import the contents to the HDD (*page 73*).

Playing Music Stored on the HDD

HDD

You can play all music contents stored on the HDD.

Supported file format

MP3 and LPCM format

Note

For MP3, only MPEG1 Audio Layer3 format is supported.

Instant music playback using the Music Play button

1 Press *▶* (Music Play) on the server or the BLUE button on the remote repeatedly to select an audio folder for playback.



The current folder flashing on the top or front panel display toggles: All – Newly Registered – GENRE 1 – GENRE 2 – GENRE 3... – All Playback starts after a few seconds.

Playing music on the HDD using the Home Menu

ີ່ 🐺 Hint

You can view the HDD content by grouping them into folders by album, genre, or artist (*page 71*).

- **1** Press HOME to turn on the Home Menu.
- **2** Select **J** to display the icons.



3 Select a ☐ and press ▷.

• To select a track to play, select the folder and press ENTER.

Then, select a track and press ENTER.

Playing newly registered music stored on the HDD

HDD

1 Press HOME to turn on the Home Menu.

2 Select **1** to display the icons.

3 Select the [Newly Registered] folder and press ▷.

• To select a track to play, select the folder and press ENTER.

Then, select a track and press ENTER.

Notes

- The [Newly Registered] folder will not appear if no music is imported to the HDD.
- The [Newly Registered] folder contains tracks recently imported, for up to 30 tracks.

Available OPTIONS

The Options menu appears when you press OPTIONS. The available items differ depending on the situation.

For playing music recorded on the HDD, the availability differs as in the following three situations.

Available OPTIONS while selecting music folders

Items	Details
Group Content	 Re-orders the HDD content. By Album By Genre By Artist You can also toggle them by pressing YELLOW.
Sort By	Re-orders the music folders in the HDD. • Artist (A to Z) • Artist (Z to A) • Album (A to Z) • Album (Z to A)
Play All	Plays all tracks in the HDD repeatedly and randomly.
Repeat	Displays options for Repeat Play. • Track • All • Off

Items	Details
Shuffle	Displays options for Shuffle Play. • On • Off
PARTY MODE	Enters "PARTY MODE" setting display (<i>page 75</i>).
Play	Plays tracks in the folder.
Information/Settings	Displays the folder information.
Erase	Erases the folder.

Available OPTIONS while selecting tracks

ltems	Details
Sort By	Re-orders the track • Track (A to Z) • Track Number
Repeat	Displays options for Repeat Play. • Track • All • Off
Shuffle	Displays options for Shuffle Play. • On • Off
PARTY MODE	Enters "PARTY MODE" setting display (page 75).
Erase Multiple	Allows you to erase one or more tracks at one time.
Play from Beginning	Plays the track from beginning.
Play	Plays the selected track.
Stop	Stops playing the track.
Information/Settings	Displays the track information.
Erase	Erases a track

Available OPTIONS during playback

Items	Details
Repeat	Displays options for Repeat Play. • Track • All • Off
Shuffle	Displays options for Shuffle Play. • On • Off
Play from Beginning	Plays the track from beginning.
Play	Plays the selected track.
Stop	Stops playing the track.
Information/ Settings	Displays the details about the track.

To change the group content

- **1** Press HOME to turn on the Home Menu.
- 2 Select 🞵 to display the icons.
- **3** Select the HDD music folder.

4 Press YELLOW repeatedly

The view of the listings changes with each press as follows:

– Album

- Genre
- Artist

Notes

- The "HDD Music" folder changes depending on the view setting. Album: Displays folder by album. Genre: Displays folder by genre. Artist: Displays folder by artist.
- Depending on the number of recorded albums, the view may be slow to change.
Various Music Playback Operations

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HDD BD-RE BD-R DATA DVD CD DATA CD



But	Buttons/Functions			
1				
	- Selects a music album for playback (page 70) (HDD only).			
2	DISPLAY			
	- Switches the panel display to show track information and playback time.			
3	$\stackrel{PREV}{\longrightarrow}$ PREV/NEXT or \bigstar			
	 Skips to the beginning of the current or next track. To go the previous track, press I twice. 			
4	RETURN			
	- Stops playback and returns to the Home Menu.			
5	≪//↔) (Fast-reverse/fast-forward)			
	- Fast reverses or fast forwards (x14) when pressed during playback.			
6	STOP STOP / DAUSE			
	– Stops or pauses playback.			
7				
	 Switches the panel display to show elapsed playback time or remaining time. 			

To play repeatedly (Repeat Play)

Repeat Play is available for HDD content only.

- **1** Press HOME to turn on the Home Menu.
- 2 Select **J** to display the icons.
- **3** Select a folder on the HDD and press OPTIONS. The Options menu appears.
- 4 Select [Repeat], and then select either [Track] or [All] and press ENTER. The setting remains even after the server is turned

off. To turn off, repeat the above steps and select [Off] in step 4.

To play randomly (Shuffle Play)

Shuffle Play is available for HDD content only.

- **1** Press HOME to turn on the Home Menu.
- 2 Select 🞵 to display the icons.
- **3** Select a folder on the HDD and press OPTIONS. The Options menu appears.
- **4** Select [Shuffle] [On], and press ENTER. The setting remains even after the server is turned off.

To turn off, repeat the above steps and select [Off] in step 4.

Enjoying Videos, Photos, and Music

Playing Music in Other Rooms

HDD

When connected to a DLNA compatible audio device or PC via the network, you can play music stored on the HDD on these devices.

About the DLNA function

The function ensures connection and music sharing among digital AV devices and PCs on the home network. When the server and the DLNA compatible devices are connected via the network, the device can play the server's music content. Because of this convenient function, you can play the server's music even in other rooms.

For information regarding DLNA, visit the DLNA homepage: http://www.dlna.org/

Preparing for the music server function

1 Connect to the network.

Network connection is a prerequisite for this function. See "Step 5: Connecting to the Network" (page 26) for setup information.

2 Configure the network settings.

Make the settings necessary for connecting the server to the network. See "Network Settings" (page 121) for procedures.

3 Making the music server settings.

The following steps make the music on the HDD playable on other devices.

3-1: Set [Music Server Funciton] to [On].

3-2: Set [Client Registration] to [Auto]. For details, see "Music Server Settings" (page 122).

To prepare the client devices

The client device that you are going to play the server's music content also needs configuration for network connection and playback. Refer to the instructions supplied with the device for connections and settings. Also, the music server function may not work if firewall settings are made on other devices. See the device's manual and change the settings.

Playing music on the client devices

You can play the server's music content or stop playing it by operating the client device. Buttons on the server or the remote cannot be used for the operation.

Refer to the instructions supplied with the device for details.

Notes on the music server function

- You cannot play on the client device when:
- -Changing the server's settings
- -Editing the video titles
- -Importing video titles to the HDD or copying them to a disc (in all cases)
- -Creating "x-ScrapBook" albums or copying them to a disc -Editing audio files
- -Editing music album/track information
- -Copying photos to a disc -Copying photo albums to a disc
- · Depending on the client device, the server's music content may not be played, or the sound may not be output properly.

Playing the Same Music on All Client Devices ("PARTY MODE")

For information about client devices that support "PARTY MODE" function, visit the following "Home Entertainment Server" website:

http://www.sony.com/hesupport

Preparing for "PARTY MODE" Play



2 Select **1** to display the icons.



3 Select a folder and press OPTIONS. The Options menu appears.



- **4** Select [PARTY MODE] and press ENTER. The "PARTY MODE" settings display appears.
- **5** Select [PARTY MODE] and press ENTER.
- **6** Select [On] by pressing \clubsuit .

7 Select [Client List] and press ENTER. The device selection display appears.

If no device is displayed, select [Scan Again] and press ENTER.

8 Select up to four devices.

A check mark appears next to the selected devices. Devices that joined the previous "PARTY MODE" Play are check-marked by default.

9 Select [OK] and press ENTER.

Playing in "PARTY MODE"

- **1** Press HOME to turn on the Home Menu.
- **2** Select **1** to display the icons.
- **3** Select the music content to play.

4 Press \triangleright .

Note that the remote's playback operations are limited during "PARTY MODE" Play. Only the ▷, \blacksquare , and $\blacksquare \blacksquare$ / \blacksquare buttons can be used.

ີ່ 🐺 Hint

Shuffle Play and Repeat Play are available during "PARTY MODE" Play.

Note

When the server is turned off, "PARTY MODE" Play and playback on the client devices will be canceled. To re-start the server and re-enter "PARTY MODE," follow the steps in "Preparing for "PARTY MODE" Play" (page 75).

Organizing Content

Using the server's various edit functions, you can make the HDD/disc data more accessible and easy to manage. For managing discs in the disc changer, see "Managing Discs" (page 35).



Editing Movie Information for BD-ROMs and DVD- ROMs
• Editing Video Title Information for the HDD/DATA disc
• Searching for Disc Information
• Editing Video Titles
• Editing Photo Album Information 84
• Editing Photo Files
• Editing Audio Album Information 87
• Editing Audio Track Information
• Editing Audio Files
• Entering Characters

Editing Movie Information for **BD-ROMs** and **DVD-ROMs**

BD DVD

With registered BDs or DVD VIDEOs, you can change their information, such as the disc and actor's name.

1 Press HOME to turn on the Home Menu.

 (\cdot)







4 Select a **•** and press OPTIONS. The Options menu appears.



5 Select [Information/Settings] and press ENTER.

The information display appears.

6 Press OPTIONS to turn on the Options menu.

The Options menu appears with available edit options.



7 Select the item you want to edit and press ENTER.

See page 90 when you need to enter characters.

Items	Details		
Rename Title	You can change the title name.		
Change Release Date	Allows you to change the release date information. Press $\blacklozenge \Rightarrow$ to move the highlight and enter the month, date, and year by pressing \blacklozenge or \blacklozenge . The input is cleared ("") when you press CLEAR on the month, date, or year field.		
Rename Director	Enter a director name by selecting it from the listings, or enter a new name by selecting [New Entry].		
Rename Producer	Enter a producer name by selecting it from the listings, or enter a new name by selecting [New Entry].		
Rename Cast	Enter a cast name by selecting it from the listings, or enter a new name by selecting [New Entry]. Up to three names can be entered for a title.		
Change Genre	Changes the genre information.		
Clear All	Clears all of the disc's information.		

About movie information display



- **1** Cover art
- 2 Rating icon
- **3** Title
- **4** Release date (playback time)
- **5** Displays director, producer, cast, and genre.
- **6** Refers to the AMG Service for information. See "Searching for disc information" for details (page 78).

Editing Video Title Information for the HDD/ **DATA disc**

HDD BD-RE BD-R +RW -RW VR -RWvideo +R -R VR -Rvideo

You can make titles more recognizable and easy to manage by renaming the title, or setting thumbnail images to them.



2 Select **1** to display the icons.



- **Organizing Content**
- **3** Select a folder or (\circ) and press ENTER. When you select a disc type, select a disc from the displayed disc list.



5 Select [Information/Settings] and press ENTER.

The title information display appears.





menu.

7 Select an item to change and press ENTER.

- To change the thumbnail for the title, select [Thumbnail Setting] (HDD only).
- To rename the title, select [Rename Title] (page 90).

About video title information display



- **1** Title
- **2** Playback time
- **3** Date of recording
- 4 Title type

Searching for Disc Information

BD DVD CD

Search the AMG database for information about commercially available CDs, DVD-ROMs and BD-ROMs while the corresponding such discs remain in the changer. The AMG Database contains artist names and album names for music CDs, and movie title, director, and casts for BD/DVD movies.

1 On the Disc Information display, select [Search Info.] and press ENTER.

After receiving the data via the network, the search results appear.

🎵 Select D	ata	
The following	data is received. Select the data.	
		Cancel
$\overline{\bullet}$	Your happiness is my joy _8/1999, ****	
	A powerful manager Odyssey _7/10/2007, Victory and Justice	
•	Work work and work _7/10/2007, Victory and Justice	
		RETURN Finish

2 Select the title and press ENTER.

If the desired title is not included in the results, select [Cancel].

Notes

- The product needs to be connected to the Internet in order to search the database.
- · Access to the AMG database will not be allowed if you did not select [Agree] in [All Media Guide Settings] during Easy Setup. To change the setting, see page 117.
- You cannot receive the AMG data if the network settings are not correct. See "Internet Settings" (page 121).
- The AMG disc description is not provided for content copied on a recordable media such as a CD-R/CD-RW and DVD-R. Note that no data can be acquired for music content imported to the HDD.
- The number of the displayed cover arts of music CDs, DVD-ROMs and BD-ROMs are limited. Such cover arts are displayed while the corresponding CDs, DVD-ROMs and BD-ROMs remain in the changer or the music files made from the corresponding CDs remain in the HDD.

About AMG, see page 146 for details.

Editing Video Titles

HDD BD-RE BD-R +RW -RWVR -RWVideo +R -RVideo

You can make the most of disc capacity by erasing and editing video titles. Note that edits made to the original titles are final and cannot be undone. Make a Playlist title if you want to keep the original data.

For details about the Playlist titles and original titles, see below.

Note

You cannot edit while importing or copying data.

Before editing

HDD

You have two edit options for video titles recorded on HDD: editing either the original recording (called the "original"), or the playback information created from the original ("Playlist"). Since each is different in nature and offers different merits, read the following and select the one that better suits your needs.

♦To edit original titles

Edits made to the original titles are final. If you plan to retain an unaltered original recording, create and edit a Playlist (see below). However, when you want to free up disc space, erase the original titles.

◆To create and edit Playlist titles

A Playlist is a group of Playlist titles created from the original title for editing purposes. When you create a Playlist, only the control information necessary for playback, such as the playback order, is stored on the disc. Since the original titles are left unaltered, Playlist titles can be re-edited and still take up very little disc space. Note however, when you want to free up disc space, erasing Playlist titles has little effect.

Example: You have recorded the final few matches of a soccer tournament. You want to create a digest with the goal scenes and other highlights, but you also want to keep the original recording.

In this case, you can compile highlight scenes as a Playlist title (*page 83*), retaining the original video title.



The following edit functions are available for both original and Playlist titles:

- -Setting protection against erasure (page 80).
- -Renaming a title (page 77).
- -Erasing titles (page 80).
- -Erasing chapters (page 81).
- -Erasing a section of a title (A-B Erase) (page 81).
- -Dividing a title (page 82).
- -Combining titles (page 83).
- -Combining/dividing/erasing chapters (page 81).

Notes

- If you plan to move or to copy the title to other media after editing, check that the titles are not shown with the COPY NEVER icon or the COPY ONCE icon (changes to COPY NEVER after editing).
- After making a Playlist title, you will be unable to erase the original titles that the Playlist title refers to.
- If a message appears and indicates that the disc's control information is full, erase unnecessary titles.

→ continued

Erasing titles



6 Select [Erase Titles] and press ENTER. The display for selecting the titles appears.



7 Select titles to erase and press ENTER.



A checkmark appears next to the selected title. To remove the checkmark, press ENTER again. Titles that are referred to by a Playlist or are currently being copied to a disc are not selectable. You can select all other titles or cancel all selections by selecting [Select All] or [Clear All].

- If the title is protected The display asks for confirmation. Select [Protection Cancel] and press ENTER.
- If the title is referred to by a Playlist You cannot erase the original title until you select the referring Playlist title and erase it.
- 8 Repeat step 7 to select all titles you want to erase.



10 On the confirmation screen, select [Yes] and press ENTER.

ోల్ల Hint

You can erase a single title if you select [Erase] in step 5.

Notes

- Erasing titles on a BD-R, DVD+R, and DVD-R does not free up disc space.
- Erasing Playlist titles does not free up disc space.
- You cannot erase titles if the disc is finalized.

To protect titles against erasure

After selecting a title in step 4, press OPTIONS to turn on the Options menu, select [Protect], and press ENTER. A protect icon appears next to the protected title.

To cancel protection, follow the same procedure, select [Protection Cancel] from the Options menu, and press ENTER.

Erasing/editing sections of a title

HDD

Playback will be more fun after erasing unwanted scenes.



2 Select **to** display the icons.

3 Select a folder and press ENTER.

4 Select a title and press OPTIONS. The Options menu appears.

Items	Details
Function/Edit	You can apply the following edits to multiple titles: –Erase Titles –Create Playlist –Combine Titles
Edit	You can apply the following edits only to the selected title: -Set Chapter Marks -Erase Chapter -Edit Chapter -A-B Erase -Divide Title

5 Select the desired edit option and follow the steps below. If you have selected [Erase Titles], see *page 80* for procedures.

To erase by chapter

- **1** Select [Edit] in step 4 and press ENTER.
- 2 Select [Erase Chapter] and press ENTER. The display for selecting chapters appears. To check chapter content, select a chapter thumbnail to display the picture in the background.



- **3** Select a chapter to erase and press ENTER. A checkmark appears next to the selected chapter. To remove the checkmark, press ENTER again. You can select all chapters or cancel all selections by selecting or [Clear All].
- 4 Select [OK] and press ENTER. On the confirmation screen, select [Yes] and press ENTER.

To erase by manual selection (A-B Erase)

- **1** Select [Edit] in step 4 and press ENTER.
- **2** Select [A-B Erase] and press ENTER.

The manual selection display appears. The title plays in the background.



3 At the start of the section you want to erase, select [Set Point A] and press ENTER.

Press \blacktriangleleft or \blacktriangleright to move forward or backwards.

4 At the end of the section, select [Set Point B] and press ENTER.



- **5** Select [OK] and press ENTER.
- **6** On the confirmation screen, select [Yes] and press ENTER.

To erase more sections within the same title, repeat steps 3 to 6.

7 Select [Finish] and press ENTER.

ີ່ 🐺 Hint

Chapter marks are inserted at the erased places and the sections before and after become separate chapters.

To edit chapters (combine, divide, or multierase)

- **1** Select [Edit] in step 4 and press ENTER.
- 2 Select [Edit Chapter] and press ENTER. The display for selecting chapters appears.
- **3** Select a chapter to edit and press ENTER.



4 Select from the following edits and press ENTER.

Items	Details			
Divide	Divides the chapter by setting a chapter mark. Select the chapter thumbnail to play the picture in the background. Press $\triangleleft \lor \lor$ to reach the desired point and press ENTER.			
Combine	Erases the chapter mark and combine the chapter with the previous chapter.			
Erase	Erases multiple chapters selected in step 3. Select [OK] on the confirmation screen. Note that the chapters, not the chapter marks, will be erased.			

5 Select [Finish] and press ENTER.

ີ່ 🖞 Hints

- You can divide or combine chapters by pressing the CHAPTER MARK button or CHAPTER MARK ERASE button during playback.
- If you want to divide chapters during import, press HOME, select [Settings] [Import Settings] and set [Auto Chapter Mark] to [Off].
- Up to 98 chapter marks can be added to a title.

Notes

- Chapter erase may not work if the chapter is too short.
- Chapter marks cannot be added or deleted during Chase Play.

To divide a title into chapters at fixed intervals

You can insert chapter marks either at 6- or 15-minute intervals.

- **1** Select [Edit] in step 4 and press ENTER.
- **2** Select [Set Chapter Marks] and press ENTER.
- **3** Select the interval from [6min Interval] or [15min Interval] and press ENTER.

To clear existing chapter marks, select [Erase All].

ϔ Hint

Scene detection algorithm developed by Sony detects any change in picture and sound (movements, music, dialog, etc.,) and inserts chapter marks to make more meaningful scenes. To use this function, see "Auto-Chapter Marks" (*page 111*).

Dividing a title

HDD

Divide the title when you want to copy a lengthy title without lowering the picture quality.

You can divide the original titles and playlist titles recorded on HDD.

- **1** Press HOME to turn on the Home Menu.
- **2** Select **H** to display the icons.
- **3** Select a folder and press ENTER.
- **4** Select a title and press OPTIONS. The Options menu appears.
- **5** Select [Edit] and press ENTER.

6 Select [Divide Title] and press ENTER. The divide point display appears. To go forward or backwards, press ◀◀ or ►►.



- **7** When you reach the divide point, select [OK] and press ENTER.
- 8 On the confirmation screen, select [Yes] and press ENTER.

9 Select if you want to rename the divided titles.

To rename, select [Yes]. The title will be divided after you enter a new name. To use the same name for both the divided titles, select [No].

Combining titles

HDD

Among the titles recorded on the HDD, you can combine titles of the same type (i.e. playlist titles to playlist title, or original titles to original titles).



8 Repeat step 7 to select all titles you want to combine in the desired order.

Titles are numbered in the selected order. To cancel, press ENTER again.

- **9** Select [OK] and press ENTER. The title name selection display appears.
- **10** Select a title name and press ENTER. To enter a new name, select [Input]. To combine other titles, select [Change Title].
- **11** Select [Finish] and press ENTER.
 - Note

If the number of chapters is going to exceed the limit after title combine, chapters in the later part become one chapter.

Compiling favorite scenes into a single **Playlist title**

HDD

You can select up to 50 scenes either from Playlist or original titles. See page 79 for details about Playlist and original titles.

- **1** Press HOME to turn on the Home Menu.
- 2 Select 🗖 to display the icons.
- **3** Select a folder or a disc type and press ENTER.
- **4** Select a title and press OPTIONS. The Options menu appears.
- **5** Select [Function/Edit] and press ENTER.
- **6** Select [Create Playlist] and press ENTER. The title selection display appears. If a scene list is previously saved on the HDD, the confirmation screen appears.
- **7** Select a title to add to the Playlist title and press ENTER.

The scene selection display appears. The title plays in the background.



8 At the start of the section you want to add, select [Set IN] and press ENTER.

Press 🗲 or 🍉 to move forward or backwards. To add the entire title as a scene, select [Capture All].



9 At the end of the section, select [Set OUT] and press ENTER.

Organizing Content



10 Select [OK] and press ENTER. To select more sections within the same title, repeat

from step 7.

11 When you finish selecting scenes from the same title, select [Finish] and press ENTER. The scene list display appears.



- To add other scenes, select [Add Scene].
- To change the scene order, select [Move Scene].
- To cancel all scene selections, select [Erase All].



12 Select [OK] and press ENTER.

13 Select [OK] and press ENTER.

- To enter a new name for the Playlist title, select [Input].
- **14** Select [Finish] and press ENTER. You can save the scene list. Select [Yes] on the

confirmation display.

Ϋ́ Hint

Created Playlist titles may have many chapters as each scene becomes a chapter. When editing on HDD or BD, chapters in the captured scenes will also be added.

Editing Photo Album Information

HDD

- **1** Press HOME to turn on the Home Menu.
- **2** Select **o** to display the icons.



- **3** Select a folder and press OPTIONS. The Options menu appears.
- 4 Select [Information/Settings] and press ENTER.

The album information display appears.

5 Press OPTIONS to display the Options menu.

6 Select [Rename Title] and press ENTER.

About the photo album information



- **1** Folder name
- **2** Folder creation date
- **3** "x-Pict Story" file creation status
- **4** Folder size
- **5** Number of Files

About the photo file information



- Title
- Date of shooting
- File format
- Data size
- Resolution

Editing Photo Files

HDD BD-RE BD-R DATA DVD DATA CD M.S. CF SD xD

Erasing photos, albums and "x-Pict Story" files

HDD



3 Select an album, photo or "x-Pict Story" file to erase and press OPTIONS.

The Options menu appears.

• To erase multiple photo files, select [Still Pictures] -[Erase Multiple].

4 Select [Erase] and press ENTER.

5 On the confirmation screen, select [Yes] and press ENTER.

Capturing photos from personal video

HDD

You can capture photos from a personal video title shot with digital video cameras. This function can be used for the following video titles.

- Titles recorded via the LINE 2 input jack with no copy protection signal.
- Titles recorded via the HDV/DV jack.
- Titles created from "x-Pict Story" files.





2 Select o to display the icons.



3 Select **I** and press ENTER.

The title selection display appears.



4 Select a title to capture from and press ENTER.

The destination selection display appears.



• To save in a new album, select [New Album]. See page 90 for entering the album name.

5 Select the destination album and press ENTER.

The photo capture display appears, and the selected title plays in the background.



• To go forward or backwards, press < or 🍉.

- 6 At the capture point, press II.
- **7** Select [Capture] and press ENTER. The picture is captured.
 - To capture more photos from the same title, press PLAY and repeat from step 6.
- 8 Select [Finish] and press ENTER.

Copying a photo to another album on HDD

HDD

- **1** Press HOME to turn on the Home Menu.
- **2** Select **o** to display the icons.
- **3** Select an album and press ENTER.
- **4** Select the photo to copy and press OPTIONS. The Options menu appears. • To copy multiple photos at one time, select [Still Pictures] – [Copy Multiple].
- **5** Select [Copy] and press ENTER.





The album selection display appears.

• To save in a new album, select [New Album]. See page 90 for entering the album name.

7 Select the destination album and press ENTER.

່ Ö Hint

Photos will not be grouped by date when copying on the HDD.

Rotating a photo

HDD BD-R BD-RE DATA DVD DATA CD M.S. CF SD xD

- **1** Press HOME to turn on the Home Menu.
- **2** Select **o** to display the icons.
- **3** Select an album and press ENTER.
- **4** Select a photo from an album on the HDD and press OPTIONS.
- **5** Select [Rotate (left)] or [Rotate (right)] and press ENTER.

Note

Photos on the disc or memory card can be rotated only when they are displayed.

Editing Audio Album Information

HDD CD

With registered music CDs and albums on the HDD, you can change album information such as the album name.

Note

You cannot edit the album information of the HDD or the discs while playing music content on them. Stop playing music by pressing RETURN, and then edit the information.



2 Select **1** to display the icons.



3 Select \mathbb{J} or (\circ) under 0 and press **OPTIONS.**

The Options menu appears.





4 Select [Information/Settings] and press ENTER.

The information display appears. To change the folder view, see *page 71*.





6 Select the item you want to edit and press ENTER.

See page 90 to enter characters.

Items	Details		
Rename Album	You can change the album name. Select from the listings (HDD only), or select [Input] and enter a new name. If you enter an existing album name, the two albums are combined.		
Change Release Date	Allows you to change the release date information.		
Rename Artist	You can change the artist's name for the album. Select from the listings or select [Input] and enter a new name.		
Change Genre	Changes the genre information for the album. Select a genre on the genre list.		
Clear All	Clears all of the album and track information (Music CD only).		

About the music album information display





- **1** Cover art
- 2 Album name
- **3** Release date
- **4** Total number of tracks (playback time total)
- **5** Displays artist and genre.
- 6 Refers to the AMG Service for information. See "Searching for disc information" for details (*page 78*).

Editing Audio Track Information

HDD CD

With registered tracks either on CDs or the HDD, you can change the track information such as the track name.

Note

You cannot edit the album information of the HDD or the discs while playing music content on them. Stop playing music by pressing RETURN, and then edit the information.

1 Press HOME to turn on the Home Menu.





3 Select or o under o and press ENTER.

The list of tracks in the album appears.

Music	1000 C/17/000E 1-04414
0.0	MF3 0/17/2003 1.04/AW
Music	Decision of the King MP3 6/17/2005 12:06AM
Music	The corner of the ancient city MP3 6/17/2004 1:17AM
Music	The feelings of the gourmet MP3 7/10/2006 2:42 PM
	The employee is a treasure MP3 8/15/2003 11:06PM
Music	My daughter who shines MP3 8/31/2007 9:12AM
Music	I have a pain in it with you even if objected MP3 2/28/1996 11:12PM
Music	A mystery of the space MP3 3/15/2001 0:15AM
Music	For tomorrow



Music Music Music Music Music Music Music Music

5 Select [Information/Settings] and press ENTER.

The track information display appears.



6 Press OPTIONS to turn on the Options Menu.

The Options menu appears with available edit options.

7 Select the item you want to edit and press ENTER.

See page 90 when you need to enter characters.

Items	Details
Rename Album	You can change the album name for the track. Select from the listing, or select [New Entry] and enter a new name (HDD only).
Rename Track	Allows you to change the track name.
Change Track No	Changes the track number (HDD only).
Rename Artist	You can change the artist name for the track. Select from the listings, or select [New Entry] and enter a new name. Up to three artists can be entered for a track.
Rename Composer	You can change the name of the composer. Select from the listings, or select [New Entry] and enter a new name.
Rename Conductor	You can change the name of the conductor. Select from the listings, or select [New Entry] and enter a new name.
Change Genre	Changes the genre for the track. Select a genre from the genre list.
Clear All	Clears the track information (CD only).

About the audio track information display



1 Track name

- **2** Release date
- **3** Track number (playback time of the track)
- **4** Format information/bit rate
- **5** Sampling Frequency
- 6 Displays album name, artist, composer, conductor, and genre.

Editing Audio Files

HDD

Erasing albums and tracks

HDD



1 Press HOME to turn on the Home Menu.

2 Select **1** to display the icons.

3 Select an album or track to erase and press **OPTIONS.**

The Options menu appears. • To erase multiple tracks, select [Erase Multiple].

4 Select [Erase] and press ENTER.

5 On the confirmation screen, select [Yes] and press ENTER.

Entering Characters

The following on-screen keyboard appears when entering a name for a disc, title, etc.

◆Example: Display for upper case letters



1 Input field

Maximum word length is indicated in the field. Select a character using the Joystick and press ENTER.

2 Input functions

Select the following items using the Joystick, or alternatively use the other buttons enclosed in parentheses.

[Upper Case]: Displays the keyboard for upper case letters. (INPUT)

[Lower Case]: Displays the keyboard for lower case letters. (INPUT)

[Symbol]: Displays the keyboard for symbols. (INPUT)

[Register Word]: Registers the input to the word list. (RED)

[Word List]: Displays the registered word list so you can select from previous inputs without entering the same word again. The list will not appear if nothing is registered. (GREEN)

[Cancel]: Returns to the previous display, canceling the input.

[Finish]: Returns to the previous display. The input is entered.

[Back]: Erases the character to the left of the cursor. (BLUE)

[All Clear]: Clears all characters in the input field. (CLEAR)

[Space]: Inserts a space. (YELLOW)

3 Number button indicators

Indicates that the characters on the same row can be entered with the number buttons. For example, to select [A], press 2 once.

To enter characters

Example: To enter "Sea" with the Joystick

1 Select [Upper Case] and press ENTER.

- **2** Select [S] and press ENTER.
- **3** Select [Lower Case] and press ENTER.
- **4** Select [e] and press ENTER.
- 5 Select [a] and press ENTER. To register the word to the word list, select [Register Word].
- **6** Select [Finish] and press ENTER.

Example: To enter "Sea" with the other buttons

- **1** Press INPUT to turn on the upper case keyboard.
- **2** Press "7" four times to select [S].
- **3** Press INPUT to switch to the lower case keyboard.
- 4 Press "3" twice to select [e].
- 5 Press "2" once to select [a]. To register the word to the word list, select [Register Word].
- **6** With the Joystick, select [Finish] and press ENTER.

Example: To enter "Sea" from the registered word list

- **1** Select [Word List] and press ENTER.
- **2** Select a word and press ENTER to return to the keyboard display.
- **3** Select [Finish] and press ENTER.

ີ່ 🛱 Hint

The registered word list retains up to 20 words. If you want to add a new word beyond this, delete unnecessary listings by selecting [Word List] - [Delete Word]. After pressing ENTER, a message asks for confirmation. Select [Yes] and press ENTER.

Copying to BD/DVD

Checking Disc Information

Some restrictions may apply depending on the media and content. Check the source content on the HDD and the destination disc status beforehand. See "*Managing Server Content With the Disc Information Display*" (page 33).

ູ Hint

When a disc's content is mixed with video, photo, and music, the disc will be registered to each of the **11**, **6**, and **1** category icons on the Home Menu, possibly under different names. Be careful when copying content to a disc as you may accidentally overwrite a seemingly different disc.

You can make discs more recognizable if you label the disc (page 34).



Checking Disc Information
• Copying Videos
• About Recording Modes
• Notes and Restrictions on Importing/Copying
• Copying Photos



This section covers video copy from HDD to BD/DVD in procedural order:

- "Before copying" (page 93)
- "Formatting a BD/DVD" (page 93)
- "Copying videos to BD/DVD" (page 94)
- "Closing a BD" (page 95)
- "Finalizing a DVD" (page 95)

Refer directly to the related sections when necessary (i.e., if your disc is ready, refer directly to "*Copying videos to BD/DVD*" (*page 94*).

Before copying

- Select the disc type according to your needs (page 148).
- The server does not support the BDMV format (one of the Bluray Disc specifications). You cannot import BDMV format content edited on PCs, or copy such content from the HDD to a disc.
- If you copy a 'Copy Once' title from the HDD to a BD or DVD, you cannot copy the title back to the HDD.
- When copying the video on the HDD that contains "Copy Once" signal to a DVD, use a CPRM-compatible DVD-RW/ DVD-R (*page 148*). After copying (moving), the video will be erased from the HDD. Note that you cannot use a BD-RE/BD-R in this case.
- You cannot 'Copy Once' titles on the HDD to a BD-RE/BD-R.
- Operations are restricted while copied.
- Video titles copied to any disc except DVD+R DL will have the same chapter marks as the original title on HDD. When copying to DVD+R DL, the chapter marks are inserted according to the [Auto Chapter Mark] setting (*page 111*).
- With videos containing mixed aspect ratios (16:9, 4:3), the aspect ratio may change depending on the disc type and the server setting:
- When recording on a DVD-RW (Video mode)/DVD-R (Video mode) in XR mode or SR mode, the aspect ratio will change according to the [Video Output Aspect Ratio] setting (*page 112*). However, the aspect ratio will be fixed to 4:3 if [Video Output Aspect Ratio] is set to [Original].
- When recording on a DVD-RW (Video mode)/DVD-R (Video mode) in LR or ER mode, or when recording on a DVD+RW/ DVD+R, the aspect ratio is fixed to 4:3.
- With a BD-RE or BD-R, copying does not start if the total title length exceeds 12 hours.
- Maximum number of recordable titles is as follows:
- -BD-R/BD-RE: 300
- -DVD+R, DVD+RW: 49
- -DVD-R, DVD-RW: 99

Note that the discs become full before reaching these limits depending on usage conditions.

- A title longer than eight hours (approx) cannot be copied to a BD.
- A title longer than six hours (approx) cannot be copied to a DVD.
- Thumbnail images in the source title will not be recorded when copying to a DVD+RW, DVD-RW (Video mode), DVD+R, DVD-R (Video mode).

ີ່ Hints

- You can use Playlist titles on the HDD for copying in the same way as original titles.
- The copy will continue even when the server is turned off.
- The VBR (Variable Bit Rate) function analyzes the picture complexity and optimizes the bit rate accordingly, resulting in a higher picture quality.
- You can format the HDD using the [HDD Initialization] setting (page 117).

Formatting a BD/DVD

BD-RE +RW -RWVR -RWvideo -RVR

- **1** Press HOME to turn on the Home Menu.
- **2** Select **t** to display the icons.
- **3** Select (°))) and press ENTER.



- **4** Select the (•) and press OPTIONS. The Options menu appears.
- **5** Select [Information/Settings] and press ENTER.
- 6 Select [Format] and press ENTER. The following display appears.



7 On the confirmation screen, select [Yes] and press ENTER.

When formatting a DVD-RW or DVD-R, select the format from [VR] or [Video].

ີ່ 🛱 Hints

- You can re-format a finalized DVD-RW changing the video format (VR mode/Video mode).
- To format the HDD, select the Settings icon on the HOME menu and select [HDD Initialization] (*page 117*).

Copying to BD/DVD

Copying videos to BD/DVD

HDD → BD-RE BD-R +RW -RWVR -RWVideo +R -RVR -RVideo



1 Press HOME to turn on the Home Menu.

- 2 Select to display the icons.
- **3** Select **• •** (Copy HDD to Disc) and press ENTER.



4 Select a destination disc and press ENTER. The title selection display appears.



5 Select video titles to copy and press ENTER (30 titles maximum).

The video copy display appears (see below). When copying to DVD+RW/DVD+R/DVD-RW (Video mode)/DVD-R (Video mode), you can create a DVD Menu. Go to step 6. When using other discs, go to step 8.

6 On the confirmation screen, select [Yes] for finalizing and press ENTER.

The wall paper selection display appears. To zoom the wall paper, press YELLOW.





7 Select a wallpaper and press ENTER.

8 Select [Start] and press ENTER.

🛱 Hints

- To check progress, press HOME, select
- Copying will continue if the server is turned off.
- · High-speed copy is possible only when the destination is a BD-RE or BD-R.

Note

You can enter up to 80 characters for an HDD video title, but only the first 64 characters will be retained after the title is copied to a DVD.

About the video copy display



- **1** Total data size of videos
- 2 Direction of copy
- **3** Remaining capacity of destination media

4 Title type

NEW: Indicates the video has not been played. **ORG**: Original title. PL : Playlist title. HDV: Titles recorded on HDV devices. DV: Titles recorded on DV devices.

5 Available operations

[Start]: Starts copying. [Finish]: Turns off the video copy display. [Settings]: Allows for detailed settings for each video.

[Clear All]: Cancels all video selections for copy. [DVD Menu]: Allows you to select a wallpaper for the DVD Menu (for DVD+RW/DVD+R/DVD-R (Video mode)/DVD-R(Video mode) only).

[Finalize]: Sets whether to finalize the disc after copying.

[Disc Name]: Displays an on-screen keyboard for disc name input.

[Change Disc]: Select this when changing the destination disc.

් Hint

You can turn off the the server by pressing I/\odot while copying from the HDD to a disc. The operation continues even when the server is turned off.

Closing a BD

BD-R

By closing, you can retain disc recordings without alteration or erasure. Note that unlike DVD finalizing, closing a BD cannot be undone.



Finalizing a DVD

+RW -RWVR -RWvideo +R -RVR -Rvideo

Finalizing rearranges the disc's recorded data in a format generally playable on other DVD devices. Since a DVD Menu is automatically created when you finalize DVD+RW/DVD-RW (Video mode)/DVD+R/DVD-R (Video mode), you can display the menu on other DVD devices.

ີ່ 🛱 Hints

- You do not need to finalize BD-RE and BD-R to make them playable on other BD devices.
- You can turn off the the server by pressing I/\bigcirc while copying from the HDD to a disc. The operation continues even when the server is turned off.

Note

You cannot finalize on this server if the DVD was recorded on other DVD devices.

Before finalizing, check the difference between DVD disc types.

+RW Manual finalizing is unnecessary

The server automatically finalizes DVD+RW and creates a DVD Menu before ejecting.

You can record or edit after finalizing.

Finalizing is necessary

However, the disc is playable without finalizing if the DVD device is compatible with DVD-RW (VR mode)*.

You can record or edit after finalizing, and further re-finalizing is unnecessary.

* If the recording is short, finalizing may become necessary to enhance compatibility.

◆ **-R**∨**R** Finalizing is necessary

You can play the disc after finalizing if the DVD device is compatible with DVD-R (VR mode). You cannot record or edit after finalizing.

◆-RWvideo Finalizing is necessary

A DVD Menu will be created while finalizing.

You can record or edit after finalizing if you unfinalize the disc, although you will need to re-finalize later.

+R -R video Finalizing is necessary

A DVD Menu will be created while finalizing. You cannot record or edit after finalizing.

1 Press HOME to turn on the Home Menu.

- **2** Select **H** to display the media icons.
- **3** Select (°)) and press ENTER.
- 4 Select and press OPTIONS. The Options menu appears.

5 Select [Information/Settings] and press ENTER.

The disc information display appears. If the disc type does not allow for DVD Menu, go to step 8.

→ continued

	• Disc Inf	ormation					
	Disc Name						Close
	Media	DVD-RW	Format		Video		Name Input
	Title Total	2					Finalize
	Rec Date	7/13/2007					Tinanze
1	Recordable Time		XP: 0⊢ LP: 4⊢	159M 101M	SP : EP :	1H59M 5H56M	DVD Menu Format
	Remaining				iii	4.4/4.7GB	
							RETURN Finish

6 Select [Finalize] or [DVD Menu] and press ENTER.

The DVD Menu creation display appears.

• Finalize	e - DVD Menu Selection	
Select the I	OVD Menu used for finalizing	
		Cancel
	1. Blue	
	2. RED	
	3. Picture	
Y Zoom in/Zo	om out	RETURN Return

To zoom the wallpaper, press the YELLOW button. If [Finalize] is not selectable, the disc has previously been finalized.

7 Select the DVD Menu and press ENTER.

8 On the confirmation screen, check the time required for finalizing, select [Yes] and press ENTER.

ϔ Hint

You can use the disc information display to check if the disc is finalized. When [Finalized] is selectable, the disc is not finalized.

To unfinalize the disc (DVD-RW VR mode, DVD-RW (Video mode) only)

◆For DVD-RW (Video mode)

Unfinalizing makes the disc recordable and editable again. Note that you cannot unfinalize if the disc was finalized on another device.

- **1** Insert a finalized DVD-RW (Video mode) by pressing **▲**.
- 2 Repeat steps 1 to 3 to turn on the disc information display.
- **3** Select [Unfinalize] and press ENTER. Unfinalizing may take several minutes.

♦For DVD-RW (VR mode)

When a DVD-RW (VR mode) finalized on another DVD device does not accept recording or editing, a message appears indicating that it is a finalized disc and that you need to unfinalize. In such case, select [Unfinalize] on the disc information display as above.

However, you may not be able to unfinalize the disc, depending on the device used for finalizing.

About Recording Modes

For importing/copying, two methods are available: High-speed Importing/Copying (without changing the recording mode), and Rec Mode Conversion Importing/Copying (reducing the data size converting to the different recording mode from the original recordings). Read the following and select according to the required time, disc space, and picture quality.

Importing/copying at high-speed (High-speed Importing/Copying)

HDD \leftrightarrow BD-RE BD-R

Allows you to copy titles from HDD to a BD or import to HDD from a BD, without changing the mode.

Select [High-Speed] in [Recording Mode] when importing/ copying (*page 97*). See *page 150* for required time for importing/copying.

ີ່ Hints

- When importing/copying the edited titles at high-speed, the "seams" that are left over from editing may remain on the disc.
- Importing/copying between HDD and DVD automatically set to Rec Mode Conversion Importing/Copying.

Rec Mode Conversion Importing/Copying $(HDD) \rightarrow BDRE BDR$

HDD \leftrightarrow **+**RW **-**RWVR **-**RWvkee **+**R **-**Rvr **-**Rvkee Allows you to import/copy a title from the HDD to a DVD or vice versa, or import from HDD to a BD, in a recording mode that differs from the original recordings. For example, when you import/copy a title recorded in XR mode (high quality, but large data size) to SP mode, you can reduce the data size, saving more titles using less space.

If you copy a title of HDD recorded in DR or XR mode to a BD in SR, LR, or ER mode, or to a DVD in SP or LP recording mode, the unit automatically set the optimum picture quality, which makes the deterioration in the image quality minimum.

To automatically adjust the recording mode according to the available space

$[HDD] \twoheadrightarrow BD\text{-}RE$	BD-R	+RW	-RW VR	-RWvideo	+R
-Rvr	-Rvideo				

1 Select [Settings] from the video copy display and press ENTER.

Copy Title - Settings	5.3GB	€+• Remaining:4.6GB
Set the copy mode.		
		Start
		Finish
		Change Title
		Auto Adjust
ORG XR + XP	4.0GB	DVD Menu
	1 200	Finalize
		Disc Name
		Change Disc
	OPTIONS	Function (RETURN) Finish

2 Select [Auto Adjust] and press ENTER.

♦ Ocopy Title - Settings 3.3GB ■ ♦	• Remaining:4.6GB
Set the copy mode.	Start Finish
	Change Title Auto Adjust DVD Menu
2 006 57 + 52 1.2GB	Finalize Disc Name Change Disc
	RETURN Return

The unit automatically selects the recording mode according to the available space.

ີ່ 🐺 Hints

- If there is not enough available space or management information on the target disc, the message "Cannot import/copy because of the less space." appears in the display during importing/copying.
- If importing/copying can be performed by adjusting the importing/ copying mode, the message "Importing/copying title(s) adjusting importing/copying mode?" will be displayed. When you select "Yes," importing/copying starts changing the recording mode automatically, according to the available space of the target disc. If you select [Auto Adjust] in Detail Settings display of Title Importing/Copying and press ENTER, you can also adjust the importing/copying mode automatically.
- Rec Mode Conversion Importing/Copying in the recording mode of the source title smoothes out the "seams" that are left over from editing.

◆Available settings in Detail Settings display of Title Importing/Copying

You can set the following settings. Select an item and press ENTER.

Items	Details
Reselect	Selects a title again.
DVD Menu ^{*1}	Sets the background picture of the DVD menu.
Finalize ^{*2}	Enables finalizing after completing importing/copying.
Disc Name	Allows you to input a disc name in the displayed keyboard.

*¹ DVD only (except DVD-RW in VR mode, DVD-R in VR mode). *² DVD only (except DVD+RW).

To change the recording mode per title $(HDD) \rightarrow BD-R = BD-R$

1 Select [Settings] from Title Importing/Copying display and press ENTER.



2 Select the title and press ENTER.

Copy Mode Settings		
Copy Mode A X2 4.0GB V	Set Cancel	

3 Select the recording mode.

Copy Mode Settings		
Set the copy mode.		
Copy Mode A 1.0GB V	Set Cancel	

Select the recording mode from High-Speed^{*}/XR/ SR/LR/ER. When copying from HDD to a DVD, select from XP/SP/LP/EP.

* Displayed when copying from HDD to a BD.

4 Select [Set] and press ENTER.



5 Select [Start] and press ENTER.

ີ່ 🐺 Hints

- You can also set the recording mode by pressing OPTIONS to select [Rec Mode Setting] in Detail Settings display in Title Importing/ Copying.
- When you import/copy a title displayed **2PASS** (2 PASS), the picture quality will be higher by performing Dynamic VBR Dubbing PRO function. **2PASS** (2 PASS) may not be correctly displayed according to the title (combined title or playlist, etc.).

To stop the importing/copying partway

Select \Rightarrow \bigcirc (HDD \rightarrow DISC copying) or \Rightarrow \bigcirc (DISC \rightarrow HDD importing) from \blacksquare in Home Menu, and select ENTER. Select [Stop] in Importing/Copying Progress display, and press ENTER. Select [OK] and press ENTER. It may take several tens of seconds to stop importing/copying. It may take time longer according to the condition of importing/copying.

Available OPTIONS in Detailed Settings display

Available options differ depending on the situation.

Items	Details
Copy Mode Settings/ Import Mode Settings	Set the importing/copying mode.
Cancel	Cancels the selection, and erases them from the importing/copying select list.

Notes and Restrictions on Importing/Copying

Notes on general importing/copying

- Operations may differ depending on the HDD/BD/DVD status. Follow the on-screen messages.
- If a message appears indicating that the control information is full, erase the titles on the disc. Importing or copying of heavily edited titles may not be possible. In that case, dividing them may solve the problem.
- You cannot import from commercially available BD-ROMs and DVDs to the HDD.
- Titles longer than eight hours cannot be imported or copied.
- Titles may not be imported or copied if they are too short.
- In some cases, titles recorded on the server may not be imported or copied.
- When importing to a BD-RE/BD-R/DVD+RW/DVD-RW (Video mode)/DVD+R/DVD-R (Video mode), thumbnails of the source title will not be retained.

Notes on recording modes

Note on High-Speed Import/High-Speed Copy

If canceled halfway, the title remains on the HDD, not on the BD. However, the available capacity decreases if a BD-R is used.

Notes on Rec Mode Conversion

- Picture quality does not improve even if converted to a recording mode of better picture quality.
- Short titles may not be imported or copied properly.

Restrictions on importing/copying

The server can perform the following importing/copying, in addition to "Moving" the content.

Commercially available software such as movies cannot be imported to the HDD. Also, importing will pause if the DVD contains copy protection signals.

Copy protection Importing/Copying, and Moving signal

'Copy Free' (copies content)	HDD	+	BD-RE BD-R +RW -RW VR -RW Video +R
'Copy Once'	HDD	→	-RWVR -RVR
(moves content)			(both CPRM compatible)

Notes on 'Move'

Video titles that contain 'Copy Once' signals can only be 'moved' from the HDD to a DVD-RW (VR mode) or DVD-RW (VR mode)*. After being moved, the original title in the HDD is erased.

You can move titles in the same way as copying. Check for **DVD** to see if the title can be moved to DVD-RW (VR mode)/DVD-R (VR mode).

- The following titles recorded on the HDD cannot be moved:
- -Protected titles
- Playlist titles
- -Original titles referred to by Playlist titles
- You cannot move back titles that have been moved to a BD/ DVD.
- If move is canceled, the source title remains in the HDD, and no data will be recorded on the BD/DVD. However, the disc capacity decreases if the disc is a BD-R or a DVD-R (VR mode).
- * CPRM-compatible DVD-RW (VR mode)/DVD-R (VR mode) only. CPRM (Content Protection for Recordable Media) is a coding technology for protecting copyright of moving images.

Notes on disc formatting and finalizing

- You cannot re-format a DVD-R in Video mode if it has once been formatted in VR mode.
- Depending on the DVD device, discs may not play even if finalized correctly.
- You cannot finalize a DVD that has been recorded on other devices.

To unfinalize a disc

- Some DVD-RWs (VR mode) cannot be unfinalized.
- You cannot unfinalize if the disc has been finalized on other devices.



Copying "x-ScrapBook" albums to BD/ DVD

You can copy all the photos and videos used in "x-ScrapBook" albums, in addition to album-like "x-ScrapBook" images (each page is saved as a JPEG image).

- **1** Press HOME to turn on the Home menu.
- **2** Select **o** to display the icons.

3 Select **•** and press ENTER.

The "x-ScrapBook" destination selection display appears.



4 Select destination disc and press ENTER.

5 Select "x-ScrapBook" albums to copy and press ENTER.

Select in the order you want to record on the disc. The selected "x-ScrapBook" albums will be numbered on the screen.

6 Select [Start] and press ENTER. Copying starts.

7 Select [Finish] and press ENTER.

To copy more "x-ScrapBook" albums, select [Continue], change discs if necessary, and repeat from step 4.

ີ່ 🛱 Hint

To view photos and videos on the DVD, press HOME and select the Video or Photo icon.

When copying photos from the HDD to BD/DVD

- The photos are copied to DVD-RWs/DVD+RWs only after the discs are initialized in DATA format. All previous recordings will be lost.
- Since DVDs are automatically finalized after photos are copied, no more photos can be added to these discs. You can make additional photo copying if you use a BD-RE or BD-R.
- Up to 4,000 photos can be copied to a single DVD.
- If you import a file or folder whose name contains more than 54 characters, its files and subfolders will not be displayed correctly.
- Files that indirectly refer to other photo data (files edited on PCs) cannot be played.
- Discs created on PCs may not play.

Various Connections

Connecting a TV (or monitor)

Refer to the following sections for details about connection to a TV (or monitor).

About video signals

Videos and photos can be displayed either in the High Definition (HD) or Standard Definition (SD) quality. This server handles the following video signals. Select the format acceptable to your TV.

◆For HD quality pictures ⊞D

- Progressive signals
- 720p and 1080p for HDMI OUT jack only
- Interlace signals 1080i

◆For SD quality pictures SD

- Progressive signals
- 480p
- Interlace signals 480i — for output jacks other than the HDMI OUT jack

See *pages 143* and *144* for difference between Progressive and Interlace signals.



Selecting a video cable

Since the server has several connecting jacks, you can select according to the jacks on your TV. If you have a high-definition TV, connect using the HDMI OUT jack or the COMPONENT VIDEO OUT jacks.

Types of video cable	Picture quality	Reference page
HDMI cable	HD SD	page 102
Component video cable (red, green, blue)	HD SD	page 103
S Video cable	SD	page 104
Video cables (red, white, yellow)	SD	page 104

About video signal settings

The server supports several video display formats listed on the previous page. To find the optimal format of your preference using your TV, please select among available formats supported (*page 103*).

Notes

• If you have any problems outputting progressive signals to your TV, it is recommended that you view the pictures in Interlace format. See *page 103* for details.

• Use a Sony audio/video cable.

→ continued

Connecting with an HDMI cable 🖽 🖘

Superior video and audio quality can be obtained when the HDMI cable is used to connect the server to a TV. This connection type outputs both the audio and video signals so only one cable is required.



To switch the output resolution for the HDMI OUT jack

Select [Settings] – [Video Settings] – [Output Resolution Priority] – [HDMI] (page 112).

♦Notes about the HDMI OUT jack

- When you connect the server to an AV amplifier (receiver) using an HDMI cable, you will need to do one of the following:
- -Connect the AV amplifier(receiver) to a TV with the HDMI cable.
- -Connect the server to the TV with a video cable other than the HDMI cable (component video cable, S VIDEO cable, or video cable).
- When connecting to the HDMI OUT jack, carefully align the HDMI connector with the jack. Do not bend or apply pressure to the HDMI cable.

ប៉្តិ Hint

Connection to DVI devices is not guaranteed.

Notes

- Pictures and sound may be interrupted before the devices recognize the connection.
- If you connect a component that does not conform to the selected audio signal, a loud noise (or no sound) will come out from the speakers, which could damage your ears or speakers.

Connecting with a component video cable D

The COMPONENT VIDEO OUT jacks output brightness (Y) and chroma (P_B, P_R) independently to reproduce the original color.

You can also enjoy higher quality pictures from 480p/720p progressive signals or 1080i interlace signals, if your TV, projector or AV amplifier (receiver) is compatible. Be sure to also connect an audio cable as the COMPONENT VIDEO jacks do not output audio signals.



To switch the output resolution for the COMPONENT VIDEO OUT jacks

Press ENTER while holding down RETURN on the unit. The resolution toggles:



 $480i \rightarrow 480p \rightarrow 1080i \rightarrow 720p$ Select 480i if no picture appears on the screen. For other video settings, see also "Video Settings" (*page 112*).

Connecting with an S Video cable or video cable ${ m sp}$

If you have an AV amplifier (receiver) and would like to enjoy high quality sound, use the supplied HDMI cable.



[Optional]: If your TV has a CONTROL S jack

You can control the server by operating the remote, pointing it toward the TV (convenient when the server and TV are placed away from each other).

After connecting the server to your TV, connect also the CONTROL S IN/IR IN jack to your TV's CONTROL S (OUT) jack using a control S cable (not supplied). Refer to the instructions supplied with the TV.



Connecting an AV Amplifier

If you have an AV amplifier (receiver) and would like to enjoy high quality sound, use the supplied HDMI cable. If your HDMI device does not support digital audio signals or has no HDMI input jack, connect using an optical or coaxial digital cable (not supplied). If the amplifier has 2ch audio input jacks (L/R), connect using an audio cable.

If the amplifier has a Dolby Digital decoder, set [Digital Audio Output] in [Audio Settings] accordingly (*page 114*).

Connecting with an HDMI cable



For correct speaker location, see the operating instructions of the connected components.

Note

When you connect an HDMI OUT jack or a DIGITAL OUT jack and play a video or music, the beginning may be skipped depending on the external device.



Note

Not all HDMI-compatible AV amplifiers (receivers) accept 8ch Linear PCM signals.

See also the operating instructions supplied with the connected AV amplifier (receiver).

Connecting with a digital cable



Connecting with an audio cable



Various Connections

Changing the Server Settings

Select : (Settings) on the Home Menu when you need to change the settings of the server.

• Displaying the Server Settings icon 108 • Call Guide 110 • Messages 110 • Disc Manager 110 • Disc Manager 110 • Import Settings 111 • Video Settings 111 • Video Settings 112 • Audio Settings 114 • Photo Settings 115 • System Settings 116 • BD/DVD Viewing Settings 118 • Date and Time Settings 120 • Network Settings 121 • Easy Setup 123 • Resetting 124

Displaying the Server Settings icon

By selecting **dot** you can make various adjustments for picture and sound and system settings.

1 Press HOME to turn on the Home Menu.

2 Select 💼.



3 Select the desired setup category icon, and press ENTER.

			I.
Settings			
ଜ⊒ ∢[0	Video Output Aspect Ratio	16:9
	Ø		Video
	٨	Cinema Conversion Mode	Auto
	Ø	Output Resolution Priority	Component
	0	HDMI Resolution	Auto

Example: When [Video Settings] is selected. For details about each of the category icons, see the pages in "List of settings category icons" (*page 109*).

- When a list appears Select the desired setting and press ENTER.
- When a message appears full screen Follow the dialog.

To return to the previous display Press RETURN.
List of settings category icons

lcon	Explanation
	Call Guide (<i>page 110</i>) Displays contact information for Sony customer support.
	Messages (<i>page 110</i>) Messages from the server containing operation hints and notes are stored.
@.))	Disc Manager (<i>page 110</i>) Select this when you want to operate [Disc Manager]. Applies setting to individual discs loaded in the changer.
	Import Settings (<i>page 111</i>) Displays options available for import to the HDD.
ØR	Video Settings (<i>page 112</i>) Allows for various picture adjustments to suit your preference.
øp	Audio Settings (page 114) Allows you to select audio settings.
Øð	Photo Settings (<i>page 115</i>) Displays photo-related settings.
Ø	System Settings (<i>page 116</i>) Use this to change important server configuration.
Ø.	BD/DVD Viewing Settings (<i>page 118</i>) Provides detailed options for BD/DVD playback.
	Date and Time Settings (<i>page 120</i>) Select this when adjusting the internal clock.
	Network Settings (<i>page 121</i>) Provides internet and music server settings.
□ 1•2•3	Easy Setup (<i>page 123</i>) Starts the initial setup wizard to help you make the basic settings.
٥ ل ک	Resetting (page 124) Resets the server settings to the factory defaults.

Call Guide

Select this when you need to contact "Home Entertainment Server" Customer Call Center for product support. The contact information will be displayed. For product support, call "Home Entertainment Server" Customer Call Center at 1-877-531-SONY (7669), or visit our web site at

http://www.sony.com/hesupport

Messages

Server alerts and important messages are stored here to inform you of the sever status.



Disc Manager sorts the discs in the changer into four groups. See *page 35* for details about these operations.







Import Settings



HDV/DV Import Settings	File Format	
 Create a group of settings for HDV/DV video imports. These settings are effective when importing from HDV/DV camcorders using 	-Select [DV] or [<u>HDV</u>] and press ENTER according to the camcorder you plan to connect. If a DV camcorder is connected when [HDV] is selected, the setting will be switched to [DV] to receive the DV signals.	
the One-Touch button.	Recording Mode – Select the recording mode from [XR], [<u>SR</u>], [LR], [ER]. This setting will be fixed to [DR] when importing from HDV devices.	
	Audio Input - Select [Stereo 1] for normal audio recorded at the time of shooting; [Stereo 2] for voice-over audio; [Mix] for recording both.	
	Auto Playlist Creation – Select from [Create Playlist] or [Do Not Create] according to whether you want to create Playlist titles of the shooting date.	
Auto-Group to Albums	On	
-Effective for One-Touch Photo Import. Select whether you want to auto-group your photos.	Off ur – This is the default setting.	
Music Import Settings	Importing Format	Jing
-Select music format and MP3 Conversion	-Select the format in which you want to import, from [MP3] or [LPCM].	g th
Rate.	 MP3 Conversion Rate This setting is effective when [MP3] is selected in the above [Importing Format] (default). Select the conversion rate from the following settings: [96 kbps]/[128 kbps]/[160 kbps]/[192 kbps]/[256 kbps]. 	e Server
External Input Rec mode	Select the desired recording quality (See page 150).	Set
-Effective for recording from LINE IN 1 and	XR	tin
LINE IN 2 jacks, and also for One-Touch	<u>SR</u>	Sĺ
recording.	LR	
	ER	
Auto Chapter Mark	<u>On</u>	
 Select whether to make chapter markings automatically during import. 	 When importing from the LINE IN 1 or LINE IN 2 jacks, the title is divided, automatically detecting changes in the picture and sounds. When importing from the HDV/DV IN jack, each shooting on the tape becomes a chapter. 	
	Off - Chapter marks are created only at the beginning of a recording.	

Video Settings



Video Output Aspect Ratio	16:9	
- For your best viewing pleasure, select the aspect ratio that best matches your needs. For BD-ROMs or discs with AVCHD files, the [16:9] aspect ratio is chosen automatically by the application.	 Select this when connecting a wide-screen TV. Original Select this when connecting to a TV with a wide-mode function. A wide-screen TV also displays 4:3 screen pictures in 16:9. 4:3 Select this when connecting a 4:3 TV without a wide-mode function. 	
	¨Ç Hint See also your TV manual for details about the wide mode function of a 4:3 TV.	
Video Input 1	Video	
– Select the signal type for the LINE IN 1 jacks.	 Select this when connecting to the VIDEO jack. S Video Select this when connecting to the S VIDEO jack. 	
Cinema Conversion Mode	Auto	
– Sets the video conversion method for 480p, 720p, or 1080i signals from the HDMI OUT jack or the COMPONENT VIDEO OUT jacks.	 Normally select this. The server automatically detects whether the material is video-based or film-based, and switches to the appropriate conversion method. Video The conversion method suited for video-based material will always be selected regardless of the material. 	
Output Resolution Priority	НДМІ	
-Allows you to select output priority from the HDMI or component jacks.	 Outputs signals according to the [HDMI Resolution] setting below. <u>Component</u> The type of output signal is affected by certain factors. See <i>page 113</i>. When this is selected, [HDMI Resolution] will be set to [Auto]. 	
HDMI Resolution	Auto	
-Select the signal type for the HDMI OUT jack. Note that you can make this setting only when the connected TV is turned on, and that some options may not be displayed if they are unacceptable for the TV.	 Normally select this, or automatically fixed if the above [Output Resolution Priority] is set to [Component]. The server outputs signals starting from the highest resolution acceptable to the TV; 1080p > 1080i > 720p > 480p If the resulting image format is undesirable, try another setting that suits the TV. 480p Outputs 480p video signals. 	
	1080i – Outputs 1080i video signals.	
	720p – Outputs 720p video signals.	
	1080p –Outputs 1080p video signals.	
YCbCr/RGB(HDMI) - Sets the color setting for video signals output from the HDMI OUT jack. Select the setting that matches the type of TV, monitor, or projector to be connected.	Auto – Automatically detects the type of external device, and switches to the matching color setting.	
	RGB – Outputs RGB video signals.	
	YCbCr 4:4:4 – Outputs YCbCr 4:4:4 video signals.	
	YCbCr 4:2:2 – Outputs YCbCr 4:2:2 video signals.	

Black Level (VIDEO OUT)	On – Sets the black level of the output signal to the standard level. Normally select this.	
-Sets the black level setting for video signals		
output from the VIDEO OUT jacks.	Off	
	-Lowers the standard black level. Use this if the picture becomes too white.	
Black Level (COMPONENT OUT)	On	
- Sets the black level setting for video signals	-Raises the standard black level. Use this setting if the picture appears too dark.	
output from the COMPONENT VIDEO	Off	
OUT jacks.	-Sets the black level of the output signal to the standard level. Normally select this.	
Pause Mode	Auto	
-Sets the picture mode for DVD playback	-Normally select this. Dynamic moving pictures appear without blur.	
pause status. For BD-ROMs or discs	Frame	
containing AVCHD files, [Auto] will be automatically selected.	-Displays static pictures at high resolution.	

To set the output resolution

Note that the resolution differs depending on the display device, connecting jack, and the source material as below.

When the COMPONENT setting is prioritized

Output Resolution Priority	Component Resolution	COMPONENT VIDEO OUT	HDMI OUT
Component	480i	480i	Not displayed
	480p	480p	
	1080i	1080i (When playing a DVD Video: 480p)	COMPONENT VIDEO OUT
	720p	720p (When playing a DVD Video: 480p)	

ີ່ 🛱 Hint

To change [Component Resolution], press ENTER while holding down RETURN (both are in the retractable input and control panel). The output changes with each press: $480i \rightarrow 480p \rightarrow 1080i \rightarrow 720p$

When the HDMI setting is prioritized

Output Resolution Priority	HDMI Resolution	HDMI OUT	COMPONENT VIDEO OUT
HDMI	Auto	Automatically selects the highest resolution acceptable for your TV.	The same resolution as for HDMI OUT (however, outputs in 1080i when set to 1080p) (When playing a DVD Video: Not displayed if other than 480p is selected)
	480p	480p	480p
	1080i	1080i	1080i (When playing a DVD Video: Not displayed)
	720p	720p	720p (When playing a DVD Video: Not displayed)
	1080p	1080p	1080i (When playing a DVD Video: Not displayed)

ប៉្តិ Hints

• For HDMI Resolution, the resolution that the connected TV can display appears.

• You can change the priority from HDMI to Component by pressing ENTER while holding down RETURN.

Changing the Server Settings

Audio Settings



HDMI Audio Output	Auto
– Select the signal type for the HDMI OUT	-Normally, select this. Outputs audio signals according to the status of the connected
jack.	HDMI device.
	PCM Downmixes to 2-channel Linear PCM signals before outputting from the HDMLOUT
	iack.
	Note
	Select [PCM] when connecting a TV or an AV amplifier that does not support Dolby Digital or
	DTS, otherwise noise or no sound may result.
Audio Output ATT	On
-Lowers the audio output level to prevent	-Enables Audio Attenuation.
sound distortion.	Off
	-Disables Audio Attenuation.
	Note
	This setting does not affect output from the HDMI OUT jack and the DIGITAL OUT (OPTICAL)
	COAXIAL) jacks.
Digital Audio Output	<u>On</u>
– Select whether to output audio signals from	-Normally select this. You will need to make additional settings described below for
the DIGITAL OUT (OPTICAL/COAXIAL)	the digital output.
jacks.	Off
	-Does not output audio signal from these digital output jacks.
	Neto
	or no sound may result that could damage your ears or the speaker system.
Dolby Digital	Downmix PCM
- Select the audio signals output for playback	–Select this when connecting an audio device without a built-in Dolby Digital decoder.
of discs with audio recorded in Dolby Digital	Dolby Digital
format.	– Select this when connecting an audio device with a built-in Dolby Digital decoder.
DTS	DTS
- Select the audio signals output for playback	-Select this when connecting an audio device with a built-in DTS decoder.
of discs with audio recorded in DTS format.	PCM (BD-ROM)
	- Select this when connecting an audio device without a built-in DTS decoder.
	W HINT The server outputs Linear PCM signals if you play a RD-ROM that contains DTS source with the
	[PCM (BD-ROM)] setting selected.
48kHz/96kHz PCM	48kHz/16bit
– You can select the maximum sampling	-Outputs audio signals of 48 kHz frequency as 48 kHz/16 bit.
frequency for the PCM signals output from	96kHz/24bit
the DIGITAL OUT (OPTICAL/COAXIAL)	-Outputs audio signals of 96 kHz frequency as 96 kHz/24 bit. However, the signals
jacks.	will be output as 48 kHz/16bit if the source is copy-protected.
	Notes
	To the second se
	• If you select [96KHZ/240It] when an A v amplifier that does not support 96 kHz is connected, no sound or a loud sound may result.
	• This setting is not effective when the audio signals are output from the AUDIO OUT (L/R)
	jacks. The signals will be output as analog retaining the original sampling frequency.
	• Regardless of the above settings, the HDMI OUT jack outputs 48 kHz signals if the external
	device does not support 96 kHz signals, and will output 96 kHz signals even if you caled

Photo Settings



Slideshow Effect - Selects effects for the slideshow.	On –Enables slideshow transitions.
	Off –Disable slideshow transitions.
x-Pict Story HD Time Display	On – Shows the shooting date as part of the visual effect.
	Off -Does not show the shooting date.
Sample Display	On -Displays the "Photo" category sample albums (albums/"x-Pict Story HD"/"x-ScrapBook").
	Off –Does not display the sample albums.

System Settings



Brightness of Front Panel	<u>Bright</u>
	–Indicators and the top and front panel displays light up brightly.
	- The indicators and the top and front panel displays light up dimly.
	Dim
	- The top and front panel displays turn off when the power is off, and light up dimly when the power is on, although they turn off during playback of video, photo, and music.
	Note
	Setting to [Dim] does not turn off the indicators.
HDMI Control	On
-Select whether to activate the HDMI Control	- Activates the function.
function of the server (page 24).	– Turns off the function.
Standby Mode	Standard
 There are two modes of operation that determine how fast the server becomes operable after you turn on the power. 	 This mode uses (slightly) more electricity because the server is in a standby status even when turned off. For example, music and videos will start playing sooner when you press I/(b), etc. This is automatically selected if you set Music [Music Server Settings] to [On] in [Network Settings] (<i>page 122</i>). Eco This mode uses less electricity because the power saving mode is enabled during standby mode. For example, the ventilation fan does not rotate. Notes (Standard] consumes more standby power as the internal controller carries current and rotates the ventilation fan. If [Eco] is selected, the server's music sharing function, and the music file transfer function from PCs cannot be used. When [Standard] is selected, the server can distribute or receive audio data even in standby mode. To use these functions while in standby mode, you will need to make additional settings
	on the client device or "Music transfer" on the PC. For "Music Transfer": On the "File" menu, click [Select Server], and after selecting the server, click [Startup Server] (<i>page 50</i>) For client devices: Settings differ depending on the device. See instructions supplied with the
	device.
Auto Display	<u>On</u>
- When changing the viewing titles, picture modes, audio signals, etc., you can check the information about the change on screen (name of the title, the picture mode or the signal).	 Displays the information at the time of change. Off Does not display the information automatically.
Software Update	Disc Update
-Updates the server software using a software update disc or connecting to the network.	- Updates the server's software using a software update disc. See "Updating the software using an update disc" (page 140) for details. Network Update
	- You can update by downloading the update data from the Internet. See "Updating the server's software using the network" for details (page 141).

Set Password	1 Enter the password you want to set.	
- Set or change the password for the "parental control" function. A password allows you to set a restriction on BD-ROM/DVD VIDEO playback. If necessary, you can differentiate the restriction levels for BD-ROM and DVD VIDEO.	2 Select [OK] and press ENTER.To change the passwordBefore step 1, enter the current password and then a new password.	
All Media Guide Settings	Agree	
 Select whether to access the All Media Guide (AMG) database via the Internet to search for disc information each time you register a BD- ROM, DVD VIDEO, or CD to the server. 	 Accesses the AMG database. The disc information will be stored on the server for later browsing on the [Disc Manager] display. Decline 	
	 Does not access the AMG database. When changed from [Agree] to [Decline], all the data that has previously been accumulated will no longer be accessible for viewing. 	
Device Information	-Displays the server software version information and the MAC address.	
HDD Initialization	– Initializes the HDD. All of the HDD contents including video titles, photos, music, "x-Pict Story" files and "x-ScrapBook" albums are completely cleared and cannot be recovered.	
	Ö Hint To initialize the entire system, execute all three of [Reset to Factory Default] (<i>page 124</i>), [Initialize Personal Settings] (<i>page 124</i>), and [HDD Initialization] above.	

BD/DVD Viewing Settings

		I
Settings		
∞ ∢ Ø	BD/DVD Menu Language	English
Ø	Audio Language	Original
9	Subtitle Language	Audio Language
Ø	DVD Parental Control	No Restriction
ß	BD Parental Control	No Restriction

The default settings are underlined.

Note

Playback settings described in this section may not work if a playback setting was recorded

or preset on the disc by disc manufacturer. The disc's playback settings take priority over the server's playback settings.

BD/DVD Menu Language	-When you select [Language Code], the language code entry display appears. Enter		
-Select the default menu language for BD- ROMs/DVD VIDEOs.	the code for your language by referring to "Language Code List" (<i>page 153</i>). The default setting is [English].		
Audio Language – Select the default track language for BD- ROMs/DVD VIDEOs.	-When you select [Language Code], the language code entry display appears. Enter the code for your language by referring to "Language Code List" (<i>page 153</i>). The default setting is [<u>Original</u>].		
	Note When you select [Original], the disc's priority language will be selected.		
Subtitle Language	-When you select [Language Code], the language code entry display appears. Enter		
– Select the default subtitle language for BD-ROMs/DVD VIDEOs.	the code for your language by referring to "Language Code List" (<i>page 153</i>). The default setting is [Audio Language].		
	Note When you select [Audio Language], the subtitle language switches in accordance with the [Audio Language] setting.		
DVD Parental Control	1 Enter the password, select [OK], and press ENTER.		
– This function limits playback of DVD VIDEOs.	 If no password has been set, the [DVD Parental Control] display appears instead. 2 Select a level and press ENTER. The default setting is [No Restriction]. 		
	'Ç' Hint When you want to change the password, see "Set Password" (<i>page 117</i>).		
	 Notes If you forget the password, clear the current password and set a new one. Press HOME and select [Settings] – [Resetting] – [Reset to Factory Default] – [System Settings] (<i>page 124</i>). When you select [Start], the previous password will be erased. Then, set a new password from "Set Password" (<i>page 117</i>). You cannot limit playback if the disc does not have the Parental Control function. You may be asked to change the parental control level while playing the disc. In this case, enter your password, then change the level. 		
BD Parental Control	1 Enter the password, select [OK], and press ENTER.		
– This function limits playback of BD-ROMs.	 If no password has been set, the [BD Parental Control] display appears instead. 2 Select the age restriction and press ENTER. Younger age sets a stricter restriction. The default setting is [No Restriction]. When you select [Age Restriction], you can enter the age from "0" to "255" using the cursor and the number buttons. Ÿ Hint When you want to change the password, see "Set Password" (<i>page 117</i>). 		
	 Notes If you forget the password, clear the current password and set a new one. Press HOME and select [Settings] – [Resetting] – [Reset to Factory Default] – [System Settings] (<i>page 124</i>). When you select [Start], the previous setting will be erased. Then, set a new password from "Set Password" (<i>page 117</i>). You cannot limit playback if the disc does not have the Parental Control function. You may be asked to change the parental control level while playing the disc. In this case, enter your password, then change the level. 		

DVD Wide Mode

Audio DRC

- Select the display configuration for a 16:9 DVD picture on a 4:3 screen TV(selectable when [Video Output Aspect Ratio] in [Video Settings] is set to [4:3] (page 112)).

 Using the Audio Dynamic Range Control (DRC) function of the BD/DVD, you can

make low sounds such as dialogs more

audible even at low volume.

Downmix for DVD

Letter Box

– Displays a wide picture with black bands at the top and bottom.



Pan & Scan

-Displays the full-height picture on the entire screen, with trimmed sides.



Note

The aspect ratio is fixed on some discs. For example, a letter box picture may appear even when [Pan & Scan] is selected.

Standard

-Normally select this.

TV

-Clarifies the low sound. This is especially effective when outputting the sound from the TV's speakers.

Wide Range

-Makes the sound dynamic. You can attain a better effect with a hi-fi speaker set.

Note

[Audio DRC] is effective only when the disc is a Dolby Digital Blu-ray Disc or DVD and: - [Dolby Digital] in [Audio Settings] is set to [Downmix PCM] below, and the audio signals are

- output from the DIGITAL OUT (OPTICAL or COAXIAL) jack or the HDMI OUT jack. - [HDMI Audio Output] in [Audio Settings] is set to [PCM] (page 114) and the audio signals are output from the HDMI OUT jack.
- the audio signals are output from the LINE OUT AUDIO (L/R) jacks.

Dolby Surround

Outputs the Dolby Surround (Pro Logic) signals in 2 channels. Select this when connecting an audio device that supports Dolby Surround (Pro Logic).

Normal

-Outputs audio signals without Dolby Surround (Pro Logic) effect. Select this when connecting an audio device that does not support Dolby Surround (Pro Logic).

Notes

Direct

- This setting is effective for analog audio output when [Dolby Digital] in [Audio Settings] is set to [Downmix PCM] (page 114).
- 5.1 channel PCM signals recorded at 192 kHz will be downmixed to 2 channels.

Outputs Dolby Digital or DTS signals mixed with interactive audio.

BD Digital Audio Output -Select whether to mix or not to mix <u>Mix</u> interactive audio (audio for menu operations) when playing a Dolby Digital or DTS BD that contains such audio.

- Sets the downmix method for Dolby Digital

DVDs that have rear speaker multi channels.

Notes

-Outputs the original audio bit stream.

- · This setting is ineffective for analog output and PCM digital output (interactive audio will always be mixed).
- If the Dolby Digital or DTS signals on the disc contain less than two channels, the server outputs PCM signals even when [Mix] is selected.

Date and Time Settings



Date and Time Set

-Set the month, date, year, hour, and minute (in this order) using the cursor buttons.

Network Settings



Internet Settings

These items are necessary when you connect to the Internet via an Ethernet cable to use the AMG service. Refer to the Internet service provider's instructions and select the settings appropriate for your network environment.

Quickest way to get started

Connect the server to the Internet. See *page 26* for connection details. For use of routers and gaming adapters, refer to the device's operating instructions.

- 1 Check that [IP Address Acquisition] is set to [Use DHCP].
- 2 Select [Network Diagnostic] and press ENTER.
- 3 Select [Start] and press ENTER.
- 4 Check that a message, [Connection to the network is correct] appears.

The setup is finished when this message appears. If it does not appear, follow the onscreen messages and check the following settings. And also see *page 134* for possible causes.

IP Address Acquisition

Use DHCP

Select this when DHCP (Dynamic Host Configuration Protocol) server settings are available from your Internet service provider. The network settings necessary for the server will be assigned automatically. Contact the service provider for information.

- Use static IP address Set the IP address manually according to your network environment. Additionally, you will need to configure the following items:
- -Subnet Mask
- -Default Gateway
- -[DNS Server (Primary)]/[DNS Server (Secondary)] *¹ You will need to contact your Internet service provider (ISP) or the network
- administrator for this information.
- *¹ [DNS Server Auto Aquisition] is available only when you select [Use DHCP]. You can set the [DNS Server (Primary)] and [DNS Server (Secondary)] addresses manually if you set [DNS Server Auto Acquisition] to [Off]. In this case, be sure to enter the [DNS Server (Primary)] address, otherwise the [Network Settings] will not be set correctly.

If your ISP has a specific proxy server setting, select [Proxy Settings] and enter the setting.

For more information regarding network configuration, contact "Home Entertainment Server" Customer Call Center:

1-877-531-SONY (7669).

Music Server Settings

- This setting is a prerequisite for the use of "Music Transfer," "PARTY MODE," and music sharing in the house. See *page 26* for the network settings, and also the device manuals for their playback procedures.

Quickest way to get started

- 1 Set [Music Server Function] to [On].
- 2 Set [Client Registration] to [Auto].

Music Server Function

- Turns on or off the server function.
- 1 Select [Music Server Function] and press ENTER.
- 2 Select [On] and press ENTER.
 - [Off] stops the server function entirely.

Server Name

Sets the name of the server. The name appears on the client devices when they access the server.

- 1 Select [Server Name] and press ENTER.
- 2 Enter a name using the on-screen keyboard.

Client Registration

'Client device' refers to devices that support the music server function. You have the following registration methods.

- 1 Select [Client Registration] and press ENTER.
- 2 Select an item and press ENTER.
- Auto

Automatically registers up to 10 devices when accessed. This allows access to the server for all accessible devices on the network.

• Manual

Allows for manual registration.

You can register a new device using the [Unregistered Device List], and cancel an existing registration using [Registered Device List].

Registered Device List

Displays the list of registered client devices. You can check the device information, or cancel the registration from this list.

1 Select [Registered Device List] and press ENTER.

-If your device does not appear on the list, see [Unregistered Device List].

-To cancel all the displayed registrations, select [Clear]. And then select [Start] and press ENTER.

- 2 Select the device you want to check and press ENTER.
 - The device information appears.

To cancel the device's registration, select [Delete Device] and press ENTER. Then select [Yes] when asked and press ENTER. The device name will be deleted from the list.

Unregistered Device List

Displays the list of accessible devices on the network that have not been registered yet. You can check the device information, or register a device from this list.

- 1 Select [Unregistered Device List] and press ENTER.
- 2 Select the device you want to check.

The device information appears. To register the device as the server's client, select [Register Device] and press

ENTER. The device becomes ready for playback.

ថ្ពី Hints

- If you do not want to manually register each client from the [Unregistered Device List], you can clear the list by selecting [Auto] in [Client Registration].
- See *page 74*, and refer to your client device manuals for more information on playback.

Easy Setup

Easy Setup Makes the initial settings necessary for using the server. Start Cancel

Re-runs Easy Setup, which includes the following settings. See *page 28* for details.

- ♦Date and Time Settings
- ♦All Media Guide Settings
- Music Server Settings

Note

If you have re-run Easy Setup accidentally, check that the previous settings are retained.

Resetting



Reset to Factory Default	1 Select the settings you want to reset to default and press ENTER.				
- You can reset the server settings to the factory default by selecting the group of settings. Note that all the settings within the group will be reset.	You can reset the following settings: -Import Settings -Video Settings -Audio Settings -Photo Settings -Photo Settings -BD/DVD Viewing Settings -BD/DVD Viewing Settings -Network Settings -All Settings 2 On the confirmation screen, select [Start] and press ENTER. Ÿ Hint To initialize the entire system, execute all three of [Reset to Factory Default], [Initialize Personal Settings] and [HDD Initialization] (name 117)				
Initialize Personal Settings	-Messages				
-Erasing the data within the server before disposing or transferring is strongly recommended.	Messages are cleared. – Password and parental controls Parental Control is cleared. Password for parental control is also cleared.				
	[°]Ç Hint To initialize the entire system, execute all three of [Reset to Factory Default], [Initialize Personal Settings], and [HDD Initialization] (<i>page 117</i>).				
	NotesYou cannot erase the personal settings one by one. All the settings will be lost once erased.HDD content that you have imported will not be lost.				

• This setting will not clear the password for BD locking.

Changing the Server Settings

Other Remote Uses

Operating Other Devices

By pressing the device selection button on the remote (TV, VCR, etc.), you can switch the remote's device mode and operate other devices that are placed in the same room.



•	Operating Other Devices	126
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Programming AV components to the device selection buttons

You can use the remote with Sony and other branded AV components. To use with other AV components, set the component's manufacturer code to the corresponding device button on the remote (TV, VCR, CUSTOM buttons, etc.). Codes that can be entered vary depending on the device selection button (page 127).



1 While holding down RM SETUP, press AV /(¹).

The RM SETUP button flashes.

2 Press the desired device selection button before the RM SET UP button stops flashing. Both the RM SETUP button and the device selection button flash.

3 Enter the three-digit manufacturer code using the number buttons (page 127).

For example, to enter 901, enter "9," "0," "1."

4 Press ENTER.

The RM SETUP button flashes twice and turns off.

Ϋ́ Hints

- To exit the above procedures, press RM SETUP.
- When more than one code is listed, try until you find the one that works
- If you cannot finish entering the code, repeat from step 1.

Operating registered devices

1 Press the device selection button (TV, AMP, SAT/CABLE, VCR, or CUSTOM) to change the remote's mode.

The button lights up and remains lit for about 30 seconds.

You can operate the device until the device selection button turns off and the remote returns to the server mode.

Manufacturer code lists

◆Default Settings

The following codes are set to the device selection buttons by default.

SERVER	501 (Sony TV) ^{*1*2}
TV	501 (Sony TV)
AMP	905 (Sony amplifier) ^{*3}
SAT/CABLE	801 (Sony satellite tuner)
VCR	703 (Sony VCR)
CUSTOM	_

*1 Only the AV // , MUTING, VOL +/- buttons will work.

 $*^2$ TV codes (5xx) and AV amplifier codes (9xx) can be assigned to this button *3

The following button functions are added to the AMP button. Refer also to the instructions supplied with the amplifier.

Button	Function Name
RED	2CH
GREEN	A.F.D.
BLUE	MOVIE
YELLOW	MUSIC
POP UP/MENU	ON SCREEN

ϔ Hint

To use the "ON SCREEN" function on a Sony AV amplifier, press AMP, then press POP UP/MENU.

For AV amplifiers

Manufacturer	Code							
Sony	905	906	907	908	909			
Pioneer	910	913	920	930	932	934	935	
Denon	911	916	917	918	923	924		
Yamaha	912	919	927	938				
JVC	914	915	928	929	931	936		
Harman/Kardon	922							
Onkyo	921	925	926	933				

♦For tuners

Manufacturer	Code
Sony	002 005

For CD players

Manufacturer	Code
Sony	101 102 103
Denon	123 104
JVC	105 106 107
Kenwood	108 109 110
Magnavox	111 116
Marantz	116
Onkyo	112 113 114
Panasonic	115
Philips	116
Pioneer	117
Technics	115 118 119
Yamaha	120 121 122

For tape/DAT decks

Manufacturer	Code
Sony	203
Pioneer	219

For tape decks

Manufacturer	Code
Sony	201 202
Denon	204 205
Kenwood	206 207 208 209
Nakamichi	210
Panasonic	216
Philips	211 212
Pioneer	213 214
Technics	215 216
Yamaha	217 218

♦For MD decks

Manufacturer	Code
Sony	301
Denon	302
JVC	303
Kenwood	304

◆For BD players and recorders

Manufacturer	Code
Sony	310 311 312

$\blacklozenge For TVs$

Manufacturer	Cod	е							
Sony	501								
Aiwa	536	539	501						
Akai	503								
AOC	503								
Centurion	566								
Coronado	517								
Curtis-Mathes	503	551	566	567					
Daytron	517	566							
Daewoo	504	505	506	507	515	544			
Fisher	508	545							
Funai	548								
Fujitsu	528								
GoldStar/LG	503	512	515	517	534	544	556	568	
Grundig	511	533	534						
Hitachi	513	514	515	544	557	503	519	517	571
ITT/Nokia	521	522							
J.C.Penny	503	510	566						
JVC	516	552							
КМС	517								
Magnavox	503	518	544	515	517	566			
Marantz	527								
Mitsubishi/MGA	503	519	527	544	566	568			
NEC	503	520	544	554	517	540	566		
NordMende	530	558							
Nokia	521	522	573	575					
Panasonic	509	524	553	559	572				
Philips	515	518	557	570	571				
Philco	503	504	514	517	518				
Pioneer	509	525	526	540	551	555			
Portland	503								
Quasar	509	535							
Radio Shack	503	510	527	565	567				
RCA/ProScan	510	523	529	544	503				
Samsung	503	515	517	531	532	534	544	556	557
	562	563	566	569					
Sampo	566								
Saba	547	537	549	558	530				
Sanyo	508	545	546	560	567				
Scott	503	566							-
Sears	517	510	508	503	518	551			
Sharp	535	550	517	561	565				
Sylvania	503	518	566						

Manufacturer	Cod	e				
Thomson	530	537	547	549		
Toshiba	535	539	540	541	551	
Telefunken	537	538	547	549	558	530
Teknika	517	518	567			
Wards	503	517	566			
York	566					
Zenith	542	543	567			
GE	509	510	503	544		
Loewe	515	534	556			

$\clubsuit For DVD players$

Manufacturer	Code
Sony	401 402 403
Broksonic	424
Denon	405
Hitachi	416
JVC	415 423
Mitsubishi	419
Oritron	417
Panasonic	406 408 425
Philips	407
Pioneer	409 410
RCA	414
Samsung	416 422
Toshiba	404 421
Zenith	418 420

♦For DVD/VIDEO combo decks

Manufacturer	Code
Sony	411
◆For LD playe	8
Manufacturer	Code
Sony	601 602 603
Pioneer	606

♦For Video CD players

Manufacturer	Code
Sony	605

♦For VCRs

Manufacturer	Cod	e					
Sony	701	702	703	704	705	706	
Aiwa	710	750	757	758			
Akai	707	708	709	759			
Blaupunkt	740						
Emerson	711	712	713	714	715	716	750
Fisher	717	718	719	720			
General Electric (GE)	721	722	730				
GoldStar/LG	723	753					
Grundig	724						
Hitachi	722	725	729	741			
ITT/Nokia	717						

Manufacturer	Cod	e					
JVC	726	727	728	736			
Magnavox	730	731	738				
Mitsubishi/MGA	732	733	734	735			
NEC	736						
Panasonic	729	730	737	738	739	740	
Philips	729	730	731				
Pioneer	729						
RCA/ProScan	722	729	730	731	741	747	
Samsung	742	743	744	745			
Sanyo	717	720	746				
Sharp	748	749					
Telefunken	751	752					
Toshiba	747	756					
Zenith	754						

♦For satellite tuners

Manufacturer	Cod	le						
Sony	801	802	803	804	824	825	865	
Amstrad	845	846						
BskyB	862							
General Electric (GE)	866							
Grunding	859	860						
HUMAX	846	847						
Thomson	857	861	864					
Pace	848	849	850	852	862	863	864	
Panasonic	818	855						
Philips	856	857	858	859	860	864	874	
Nokia	851	853	854	864				
RCA/ProScan	866	871						
BITA/ Hitachi	868							
Hughes	867							
JVC/Echostar/ Dish Network	873							
Mitsubishi	872							
Sumsung	875							
Toshiba	869	870						 -

For cable box tuners

Manufacturer	Cod	e							
Sony	821	822	823						
Hamlin/Regal	836	837	838	839	840				
Jerrold/G.I. / Motorola	806	807	808	809	810	811	812	813	814
Jerrold	830	831							
Oak	841	842	843						
Panasonic	816	826	832	833	834	835			
Philips	830	831							
Pioneer	828	829							
RCA	805								
Scientific Atlanta	815	816	817						
Tocom/Philips	830	831							
Zenith	826	827							

The Remote Learning Operations

The supplied remote is a "learning" remote that memorizes: 1) Additional device functions when the existing device selection button (e.g., TV, VCR, etc.) is already in use *(page 129)*.

2) Frequently used sequential procedures, such as turning on your TV, AV amplifier, subwoofer, or volume adjustment *(page 130)*.



Adding a new device selection button

Example: You want to control a new AV amplifier with the remote but the AMP button has been assigned to the other AV amplifier. So you decide to assign a number button to the new amplifier by registering the AMP device selection function to "1."

Note

Change the batteries if the RM SET UP button flashes five times and does not enter the Learning mode in step 1.

- 1 While pressing down RM SET UP, press SET to enter the Learning mode. RM SET UP lights up.
- **2** Press the device selection button to select the function (AMP in this example). AMP flashes and RM SET UP remains lit.
- 3 Press the button that you are going to use as the new AMP button ("1" in this case). The device selection button you pressed in step 2 (AMP) lights up. RM SET UP flashes five times if you select a button that has already been used for other function.

4	At close range (2–4 inches, about 5–10 cm) and facing the sensors on the server's remote and the AV amplifier's remote, send the remote code from the AV amplifier's remote. The device's button light pressed in step 2 (AMP) turns off. Keep sending for more than one second	Sa Pi
	until the button flashes again. $ \begin{array}{c} $	The that This devi
5	Check that AMP flashes again. Learning has failed if AMP flashes five times. If it flashes 10 times, the remote's memory is full. Clear the remote's memory (<i>page 130</i>) and repeat from	man

6 Press RM SET UP again to exit the Learning mode.

To exit the Learning mode

step 1.

Press RM SET UP. Or, leave the remote for more than 60 seconds without operating.

To erase a learned function

Example: Erasing the function assigned to "1" above.

- **1** While holding down RM SET UP, press CLEAR. RM SET UP flashes twice.
- **2** Press the device function button (AMP) to select the function to erase.

AMP lights up and RM SET UP keeps flashing.

3 Press the device selection button you want to clear ("1").

AMP flashes twice and the device selection function of "1" is cleared.

If it fails, RM SET UP flashes five times.

ថ្ព័ Hint

See below when you want to clear the remote's memory entirely.

To erase all learned functions

- 1 While holding down VOL -, press I/⁽¹⁾ and AV I/⁽¹⁾ at the same time. RM SET UP flashes three times.
- **2** Release VOL –.

Saving Frequent Procedures

The MACRO function lets you register a sequential procedure that consists of up to 30 presses of the remote's buttons.

This function is convenient, for example, when you have many devices in your home theater and need to press many buttons for many devices before you start viewing.



Registering a MACRO

Note that the other devices need to be registered to the device selection buttons (TV, VCR, etc.,) beforehand (*page 129*).

1 While pressing down RM SET UP, press MACRO 1/2/3 for more than one second. The RM SET UP flashes twice, and the pressed MACRO button lights up.

2 Press the device selection button to switch the remote's mode for the device (i.e., press TV to operate a TV). The device selection button flashes.

3 Set the button operations by pressing the following function buttons.

Buttons	Functions
TV, VCR, AMP, SAT/CABLE, CUSTOM, SERVER	Switches the remote's mode for the device.
MACRO1-3	Sets intervals before sending a signal when pressed for more than one second. (MACRO 1: 1 sec., MACRO 2: 5 sec., MACRO 3: 10 sec.)
Other buttons	Sets the functions to perform.

4 Repeat steps 2 to 3 to set the entire sequence. RM SET UP flashes twice and lights up again each time you press other buttons.

5 Press RM SET UP to finish.

To exit the procedure

Press RM SET UP. Or, leave the remote for more than 60 seconds without operating.

Using a registered MACRO

1 Press MACRO 1/2/3 to execute MACRO. The MACRO operation starts, executing each command in the set order. The pressed MACRO button lights up during execution, and turns off when finished.

To erase a registered MACRO

- While holding down RM SET UP, press MACRO 1/2/3 for more than one second. RM SET UP and the pressed MACRO button lights up.
- **2** Press RM SET UP.

Additional Information

Basic Troubleshooting

Check the following conditions

Cable connection



TV's input switch



Is the TV's input switched to the server?

Server's power







These are not real problems

The power is off but fan noise is heard.



The fan rotates if [Standard] is selected.

[PLEASE WAIT] flashes, but it is slow to start up.



The front panel display flashes while starting up. Wait until the server starts up, which will take about one minute. The startup is shorter if you use the [Standard] setting (page 116).

No response



If the server is unresponsive, press I/(1) for more than ten seconds to re-start the server.

→ If none of the above applies, find the symptom in "*Troubleshooting*" (page 134).

Troubleshooting

If you experience any of the following difficulties while using the server, use this troubleshooting guide to help remedy the problem before requesting repairs. If you have any questions about this product, call "Home Entertainment Server" Customer Call Center at 1-877-531-SONY (7669), or visit our web site at http://www.sony.com/hesupport.

Power

The power does not turn on.

- \rightarrow Check that the power cord is connected securely.
- \rightarrow It takes a short while before the server turns on.

"PLEASE WAIT" flashes on the front panel display but the server is slow to turn on.

➡ The message keeps flashing during startup, which may take several moments. Wait without operating the server. Or, if necessary, you can shorten the time by using the [Standard] setting (page 116).

Picture

There is no picture/picture noise appears.

- \rightarrow Re-connect the cables securely.
- \rightarrow The connecting cables are damaged.
- → Check the connection to your TV (*page 23*) and switch the input selector on your TV so that the signal from the server appears on the TV screen.
- \rightarrow The disc is dirty or flawed.
- ➡ If the picture output from your server goes through your VCR to get to your TV or if you are connected to a combination TV/VIDEO player, the copy-protection signal applied to some BD/DVD programs could affect picture quality. If you still experience problems even when you connect your server directly to your TV, try connecting your server to your TV's S VIDEO input (*page 104*).
- ➡ Check the setting in [Settings] [Video Settings] [Video Input 1] (page 112). To display signals from the server's LINE IN 1 jacks on your TV, select [Video] for input from the VIDEO jack; [S Video] for S VIDEO jack.
- The server is connected to an input device that is not HDCPcompliant.
- ➡ If the HDMI OUT jack or the COMPONENT VIDEO OUT jacks are used for video output, changing the output resolution may solve the problem (*page 112*).
- ➡ When playing a double-layer DVD, the video and audio may be momentarily interrupted at the point where the layers switch.
- Pictures may be blurred if you have recorded from a game console.
- \rightarrow See the manual supplied with the display device.

There is no picture or picture noise appears when connected to the HDMI OUT jack.

- Try the following: ①Turn the server off and on again.
 ②Turn the connected equipment off and on again.
 ③Disconnect and then connect the HDMI cable again.
- → If the HDMI OUT jack is used for video output, changing the output resolution may solve the problem (*page 103*).
- ➡ Picture quality may be lowered if you connect the server to a progressive TV or an HD TV with an HDMI cable, and play a disc that contains 480i video signals. In this case, disconnect the HDMI cable, re-connect the server and the TV with an A/V cable or a component video cable, and view the pictures in 480i. See *page 103* for details.
- ➡ See page 112 if the [YCbCr/RGB(HDMI)] setting is appropriate for the display device.

There is no picture when connected the digital camcorder to the HDV 1080i/DV IN jack.

➡ Trying the following:

①Disconnect and then connect the i.LINK cable again.
②Turn the connected digital camcorder off and on again.
③Turn the server off and on again.

The picture does not fill the screen, even though the aspect ratio is set in [Video Output Aspect Ratio] under [Video Settings].

➡ The aspect ratio of the disc is fixed on your BD/DVD. See page 112.

The dark area of the picture is too dark/the bright area is too bright or unnatural.

→ Set [Black Level (VIDEO OUT)] and [Black Level (COMPONENT OUT)] in [Video Settings] to [On] (default) (page 113).

The imported video titles were not recorded on the HDD.

- ➡ When importing using the Options item on the Home Menu, check that the connected HDV device is in playback status.
- → Import may not be possible if blanks and recorded sections are mixed throughout the HDV tape.

Sound

There is no sound.

- → The disc is dirty or flawed.
- \rightarrow Re-connect the connecting cable securely.
- \rightarrow The connecting cable is damaged.
- ➡ The server is connected to the wrong input jack on the amplifier (receiver) (page 105).
- \rightarrow The amplifier (receiver) input is not correctly set.
- \rightarrow The server is in pause mode or in Slow-motion Play mode.
- \rightarrow The server is in scan mode.
- ➡ If the audio signal does not come through the DIGITAL OUT (OPTICAL or COAXIAL)/HDMI OUT jack, check the audio settings (*page 114*).
- ➡ The equipment connected to the HDMI OUT jack does not conform to the audio signal format, in this case set [HDMI Audio Output] in [Audio Settings] to [PCM] (page 114).

➡ DTS audio signals on CDs and DVDs are output from the DIGITAL OUT (OPTICAL/COAXIAL) jack. And set [DTS] is set to [DTS] of [Audio Settings] in [Settings].

The sound is not output correctly.

- ➡ When the AV amplifier connected to the DIGITAL OUT (OPTICAL or COAXIAL) jack or the HDMI OUT jack does not support Dolby Digital signals, set [Dolby Digital] in [Audio Settings] to [Downmix PCM] (page 114).
- → When the AV amplifier connected to the DIGITAL OUT (OPTICAL or COAXIAL) jack or the HDMI OUT jack does not support DTS signals, set [DTS] in [Audio Settings] to [PCM(BD-ROM)] (page 114).
- ➡ When the AV amplifier connected to the DIGITAL OUT (OPTICAL or COAXIAL) jack does not support signals recorded in 96 kHz frequency by its audio clock, set [48kHz/ 96kHz PCM] in [Audio Settings] to [48kHz/16bit] (page 114).

The sound output from the AUDIO OUT (L/R) or LINE OUT AUDIO (L/R) jacks is distorted.

→ Set [Audio Output ATT] in [Audio Setting] to [On] (page 114).

No sound is output from the HDMI OUT jack

- ➡ The sound volume is low on some BDs/DVDs. The sound volume may improve if you adjust the [Audio DRC] setting in "BD/DVD Viewing Settings" (page 119).
- ➡ The HDMI OUT jack is connected to a DVI device (DVI jacks do not accept audio signals).

The sound volume is low.

→ On the Home Menu, select [Settings] – [Audio Settings], and set [Audio Output ATT] to [Off] (*page 114*).

Operation

The server does not become operable after the power is turned on. "E81XX" appears on the front panel display.

→ Check that two lock screws and a lock stick are removed from the server's bottom (*page 19*).

Discs cannot be inserted.

- → Check that two lock screws and a lock stick are removed from the server's bottom (*page 19*).
- \rightarrow Dual discs are not supported.
- ➡ Do not place multiple discs on the disc tray at the same time.

Discs do not eject after 📥 is pressed.

➡ Additional operations are required. See page 33 for procedures.

The remote does not function.

- \rightarrow The batteries in the remote are weak (*page 27*).
- \rightarrow There are obstacles between the remote and the server.
- \rightarrow The distance between the remote and the server is too far.
- \rightarrow The remote is not pointed at the remote sensor on the server.

The disc does not play.

- The disc is turned over. Insert the disc with the playback side facing down.
- ➡ The disc is skewed.
- ➡ The server cannot play certain discs (page 148).
- ➡ The remote's device selection is set for a device other than SERVER.
- \rightarrow The region code on the BD/DVD does not match the server.
- \rightarrow Moisture has condensed inside the server (*page 3*).
- ➡ The server cannot play a recorded disc that is not correctly finalized (*page 149*).
- ➡ See "About Removable Media and Recording Modes" (page 148).
- → Video CDs and Super Video CDs do not play on this server.
- \rightarrow The server is inclined (*page 3*).

The file name or contents information are not correctly displayed.

- ➡ Mixed mode CDs do not play on the server. (If audio of a music CD format multi-session CD is recorded in the first session, only the first session will be played.)
- → See "About Removable Media and Recording Modes" on page 148.

The MP3 audio track file cannot be played (page 69).

- ➡ The DATA DVD is not recorded in the MP3 format that conforms to UDF (Universal Disk Format).
- ➡ The audio track file does not have the extension ".MP3."
- The data is not formatted properly even though it has the extension ".MP3."
- ➡ The data is not MPEG-1 Audio Layer III data.
- \rightarrow The server cannot play audio tracks in mp3PRO format.
- → BD-REs/BD-Rs is recorded in a format other than UDF 2.5.
- \rightarrow The CD is a mixed mode CD.

The LPCM audio track file cannot be played

- ➡ The DATA DVD is not recorded in the LPCM format that conforms to UDF (Universal Disk Format).
- → The audio track file does not have the extension ".WAV."
- The data is not formatted properly even though it has the extension ".WAV."
- Characters other than numbers and English alphabet are contained in the file name.
- Only audio track files of 44.1 kHz, 16 bit, and stereo, are playable.

The file name or the content information are not correctly displayed.

- ➡ The server can only display numbers and English alphabet. Other characters may be displayed differently.
- Depending on the writing software used, the input characters may be displayed differently.

Playback stops automatically.

➡ While playing discs with an auto pause signal, the server stops playback at the auto pause signal.

Thumbnails do not appear.

- Thumbnails may not be created depending on the operation status or the recorded content.
- ➡ Play the title once, stop playback, and try again.

Some functions such as Stop, Search, Slowmotion Play, Repeat Play, or Shuffle Play cannot be performed.

➡ Depending on the disc, you may not be able to do some of the operations above. Refer to the operating manual that comes with the disc.

The language for the audio cannot be changed.

- ➡ Try using the BD's or DVD's menu instead of the direct selection button on the remote (*page 55*).
- Multi-lingual tracks are not recorded on the BD/DVD being played.
- The BD/DVD prohibits the changing of the language for the sound track.

The angles cannot be changed.

- ➡ Try using the BD's or DVD's menu instead of the direct selection button on the remote (*page 55*).
- → Multi-angles are not recorded on the BD/DVD being played.
- \rightarrow The BD/DVD prohibits changing of the angles.
- ➡ You are trying to change the angles when "ANGLE" does not appear in the front panel display.

The photo file cannot be played.

- → Photo files larger than 10 MB cannot be played.
- \rightarrow The disc is dirty or flawed.
- ➡ On the DATA DVD, the JPEG file is not recorded in a format that complies with UDF (Universal Disk Format).
- ➡ On the BD-RE/BD-R, the JPEG file is not recorded in a format that complies with UDF 2.5.
- ➡ The file has an extension other than ".JPEG" or ".JPG."
- ➡ The image is larger than 4,097 (width) × 6,145 (hight). (Some progressive JPEG files cannot be displayed even if the file size is within this specified capacity.)
- → The image does not fit the screen (the image is reduced).
- Characters other than numbers and English alphabet are contained in the file name.
- ➡ Files exceeding 10 MB will not play on the server.
- \rightarrow Photos may not play on the server if edited on a PC.
- Progressive JPEG files are not supported.
- ➡ The server does not support voice memos.

Importing to the HDD

The selected content was not imported to the HDD.

- → Check if there is enough disk space.
- ➡ Copy-protected content cannot be imported.
- Other function may have been working. Import may not be possible when share or upload of music files (the network communication indicator on the front or top panel display lights up — see *page 14*) or recording is in progress.
- → Power failure occurred while importing.
- ➡ The following restriction apply to video import:
 - No more than 300 titles, including original and Playlist titles can be recorded on the HDD.
- \rightarrow The following restrictions apply to photo import:
 - Photo files larger than 10 MB cannot be imported.
 - Photo files other than JPEG format cannot be imported.
 - When importing from a disc, photo files may not be imported depending on the number of files and method of recording on the disc.

- Up to 500 albums can be imported to the HDD, and a photo album can contain up to 200 photos.
- ➡ The following restrictions apply to music import:
 - Music files equal to or longer than 75 minutes and 30 seconds (WAV), or 2 hours and 30 minutes (MP3) cannot be imported.
 - Up to 40,000 files can be imported to the HDD.
 - Artist information cannot be imported to the HDD if the number of artist exceeds 2,000.
 - No more than 2,000 music albums can be imported to the HDD.
 - When importing from a disc, music files may not be imported depending on the number of files and method of recording on the disc.

The disc cannot be selected.

- → The disc may not be inserted.
- Discs will not be displayed on the list if they are not supported.

One-Touch Import does not work/The IMPORT SELECT button on the top panel does not work.

- ➡ The buttons on the top panel may be disabled. Press CONTROL ON/OFF on the right bottom corner of the top panel to make them operable.
- One-Touch Import does not work while the unit is changing its settings. ("SETUP" appears on the top panel display).

Copying from HDD to a disc

The selected content was not copied to a disc.

- ➡ Check if the disc capacity is enough.
- → Check if it is a recordable disc.
- The following restrictions apply when copying videos from the HDD to a disc. Copying cannot be made if the number of titles exceed these limit:
 - For BD-REs/BD-Rs: 200 titles (including both original and Playlist titles)
 - For DVD-RWs (VR mode)/DVD-Rs (VR mode): 99 original titles/97 Playlist titles
 - For DVD+RWs/DVD+Rs: 97 original titles
 - For DVD-RWs (Video mode)/DVD-Rs (Video mode): 99 original titles
- Photo Copy from the HDD to a disc cannot be made beyond the following limits:
 - For DVDs: 4,000 files/folders (combined total of files and folders)
 - For BDs: 2,000 files/folders (combined total of files and folders)
- → Other function may have been working. Copying is not be possible when share or upload of music files (the network communication indicator on the front or top panel display lights up — see *page 14*) or recording is in progress.

The disc cannot be selected.

- → Check if the disc is inserted.
- Discs will not be displayed in the list if they are not supported.
- → Copying to 8 cm discs is not allowed.
- ➡ Power failure occurred while importing.

Others

The upper end or bottom end of the Options menu does not fit the screen.

→ Change the TV's Zoom setting. Refer to the Instructions supplied with the TV.

The HDMI Control function does not work.

- \rightarrow Check the HDMI connection (*page 102*).
- → Set [HDMI Control] to [On] (page 116).
- ➡ Make sure that the connected component is compatible with the HDMI Control function. Refer to the operating instructions of the component for details.
- Check that the power cord of the connected component is connected securely.
- Check the connected component's setting for the HDMI Control function. Refer to the operating instructions of the component.
- → If you change the HDMI connection, while watching the server's output picture on the TV via the HDMI jack, set [HDMI Control] to [Off], then set [HDMI Control] to [On]. For details on the HDMI Control function, see "About the 'BRAVIA' Theatre SyncTM features (for HDMI connections only)" (page 24).
- ➡ If four or more DVD/BD player or other devices are connected via the HDMI OUT jack, the 'BRAVIA' Theatre Sync function may not work.

The color is unnatural/noise appears on the screen when output from the HDMI OUT jack.

➡ Press HOME, select [Settings] – [Video Settings] – [YCbCr/ RGB(HDMI)], and try the [RGB], [YCbCr 4:4:4], or [YCbCr 4:2:2] settings to find the one that works.

The server does not operate properly.

➡ When static electricity, etc., causes the server to operate abnormally, unplug the server.

The disc tray does not open and "LOCKED" appears on the front panel display.

→ The front panel may be locked (Child Lock. See *page 33* to unlock.

The disc tray does not open and you cannot remove the disc even after you press \triangle .

 \rightarrow Turn on the server.

As soon as "POWER ON" appears on the front panel display, press ■ on the server (not the Remote) repeatedly until the tray opens. Repeat the above procedure several times if the tray does not open on the first try.

→ If "EXXXX" is displayed, remove the rock screws and the screw stick from the unit bottom.

[Cannot play] appears when playing a DATA DVD.

- ➡ See also "The photo file cannot be played." or "The MP3 audio track file cannot be played" (page 135).
- ➡ The MP3 audio track/JPEG image file you want to play/view is damaged.
- → The data is not MPEG-1 Audio Layer III data.

- The JPEG image file format does not conform to DCF* (page 43).
- The JPEG image file has the extension ".JPG" or ".JPEG," but is not in JPEG format.
- * "Design rule for Camera File system": Image standards for digital cameras regulated by JEITA (Japan Electronics and Information Technology Industries Association).

The server does not accept any button or, the buttons on the top panel is flashing.

- ➡ Check if any object (disc, etc) is placed on the top panel.
- ➡ Are the buttons on the top panel in operable status? Press CONTROL ON/OFF on the top panel.
- ➡ Hold down I/⁽¹⁾ on the server for more than 10 seconds until the indicators on the front panel display turn off.

The server does not function properly.

- ➡ Press down I/⁽¹) on the server for more than 10 seconds to restart the server.
- ➡ If the static electricity is affecting the server, turn it off by pressing I/(), and after the time is displayed on the front panel display, disconnect the power cord. After waiting for a while, re-connect the power cord and turn it on.

The server shuts down and starts up automatically.

➡ The server is designed to re-start when an internal problem occurs.

An alphanumeric five digit code appears on the front panel display.

➡ The self-diagnostic function is working. See page 139 for error codes.

A message such as "SYSTEM ERROR" or "FAN ERROR" appears on the front panel display.

➡ The self-diagnostic function is working. See page 139 for error messages.

The front panel does not open even after OPEN/ CLOSE (either for the disc tray or the card slots) on the server is touched.

- ➡ The front panel may be locked (Child Lock). To unlock, see page 33.
- ➡ When the server was turned on with the OPEN/CLOSE buttons, the front panel will not open until the server is started.

Fan noise is heard when the power is off.

- ➡ The fan rotates when the power is off if [Standby Mode] is set to [Standard].
- ➡ When the server's music server function is being used, the fan keeps rotating even when the power is off.

Metadata cannot be received after the disc is inserted.

- → Check if the server is connected to the network.
- → "AMG Terms of Use" has to be agreed before use. Press HOME and select [Settings] – [System Settings] – [All Media Guide Settings] (*page 117*).

- ➡ Nothing will be displayed for content copied on a recordable media such as a CD-R/CD-RW and DVD-R. Note that no data can be acquired for music content imported to the HDD.
- ➡ When the AMG Database does not contain pertinent data, nothing will be displayed or received.

Metadata received from AMG Database is not correct.

➡ Metadata received through automatic acquisition may be wrong.

Select the correct data from the search results that appear when you select [Search Info.] on the Disc Information display.

When the AMG Database does not contain pertinent data, nothing will be displayed or received. Enter the data manually using the edit functions.

Artist name and other information are displayed, with no cover art.

➡ The number of the displayed cover arts of music CDs, DVD-ROMs and BD-ROMs are limited. About AMG, see page 146 for details.

Network-related problems

No sound is output from the client device.

- The server may be busy processing other operations. Music sharing may not be allowed when other operations are in progress.
- ➡ Even when the server is in "PARTY MODE," there will be no sharing if recording is underway.

Music files were not uploaded from the PC.

The server may be busy processing other operations. Music upload is not possible when other operations are in progress.

Sound is sometimes interrupted when sharing music on a wireless network.

- On a wireless network, communication speed lowers depending on the environment. Check the surroundings for problems (distance between the devices, obstruction such as walls or a microwave oven that is currently in use).
- → LPCM files require a network bandwidth about 3 Mbps. If the sound is interrupted, import the file in MP3 format (a narrower bandwidth would suffice) and try again.

The server is not found by "Music Transfer".

- → Check that, the PC's network setting is correct.
- → When using a Windows XP or Vista PC, check that the firewall settings are appropriate. To communicate with the server, "Music Transfer." needs to be registered as an exception to the firewall setting, which is normally done at the time of installation automatically if your PC's firewall function is the Windows standard package. With other vendor's firewall products, you will need to manually configure the firewall exception setting by referring to the product's manual.
- ➡ The server is turned on.
- ➡ The server's network settings are appropriate by referring to related sections. If Music [Music Server Settings] is [Off], change it to [On].

The server is always offline on "Music Transfer."

➡ If the server is detected but only found as offline, check that the PC's device name or MAC address is included in [Registered Device List]. If not listed, register the PC to the list by referring to page 122.

Music file transfer with "Music Transfer" has failed.

- → If "Server is busy" is displayed, operations on the server are the cause. Cancel the server's operation and re-start the transfer.
- ➡ If "The server's HDD capacity is insufficient" is displayed, the server's HDD capacity is not enough.
- ➡ If "The control area is full" is displayed, it is beyond the limit that the server can manage (*page 47*).

The client device does not play the server's music content/The client device cannot find the server.

- → Check that the server is connected to the network.
- ➡ The client device may not be registered. Check the Unregistered Device List and register the device.
- ➡ If the client device does not play the music content properly, refer to the instructions supplied with the device.
- ➡ To play the server's music content while the server is turned off, [System Settings] – [Standby Mode] must be set to [Standard] (*page 116*).
- Operations on the server may have interfered with playback on the client device.

Self-Diagnostic Function

To prevent the server from malfunctioning, the server may perform self-diagnostic test. In case an error message is displayed on the top or front panel display, call "Home Entertainment Server" Customer Call Center.

Error code	Cause and/or corrective action
Exxxx	An error occurred. →Re-start the server. If it does not work, call "Home Entertainment Server" Customer Call Center (page 2), and give the 4-digit error code.
Error message	Cause and/or corrective

	action
SYSTEM ERROR	An error occurred. \rightarrow Call "Home Entertainment Server" Customer Call Center (page 2).
FAN X ERROR	An error occurred. →Wait until the error message disappears, and turn on the server. If the error message is still displayed, call "Home Entertainment Server" Customer Call Center (page 2), and give the 1-digit number.

About Software Updates

ϔ Hints

- · You can check the current software version. Press HOME, and select [Settings] - [System Settings] - [Device Information].
- · A new mail will be stored in [Massages] notifying that the update was successful.

Updating the software using an update disc



2 Select **a** to display the icons.







5 Select [Disc Update] and press ENTER.

update disc.



A message appears asking you to insert a software

4 Select [Software Update] and press ENTER.



6 Insert the update disc by pressing \triangle . The display asks for confirmation.

Version update disc is inserted. De you want to update? Current Version: 0.00.001 New Version: 0.10.000 Do not turn off System during an update.	Confirm V	ersion				
Yes No	Version (Do you v Current \ New Ver Do not tu	update dis vant to upo /ersion: 0. sion: 0.11 irn off Sys	c is inserter late? 00.001 0.030 tem during	d. an update	ə.	
	E	Yes		No		

7 Select [Yes] and press ENTER.

Software update starts.

On the top or front panel display, "VERSION UP" appears, and then messages such as "VERSION UP XX%" appear indicating the progress. When successful, "VERSION UP FINISH" is displayed, and the disc will be ejected.

• Repeat the above steps if the update fails as follows: - "VERSION UP FAIL" appears and the disc is ejected.

8 Remove the disc.

The server will start up with the updated software from the next time.

Notes

- Call "Home Entertainment Server" Customer Call Center (1-877-531-SONY (7669)) if an error message appears during software update.
- The server may automatically re-start a few times depending on the updated content.
- Software update service may be discontinued without a prior notice.

Updating the server's software using the network



1 Press HOME to turn on the Home Menu.

2 Select **=** to display the icons.





4 Select [Software Update] and press ENTER.



5 Select [Network Update] and press ENTER. The network connection display appears.

Vetwork Connection The network function update. This update	on is disabled o te program is do	during softwa ownloadable ownload the
program, your dev current software vi download server. Do you want to pro	ice ID (MAC ad arsion will be se oceed?	Idress) and ant to the
Yes		No



6 Select [Yes] and press ENTER.

The server checks the version information.





[Yes] and press ENTER. The Software License Agreement appears.



8 After reading the content to accept the terms, select [Agree] and press ENTER.

The software is downloaded and automatically starts updating the software.

Software Download
Downloading software update c To cancel, select [Cancel],
Cancel

- When downloading the software:
- "DOWNLOADING XX%" appears on the top or front panel display, indicating progress.
- If download fails, an error message appears on the screen.
- When updating the software:
- "VERSION UP FINISH" appears on the top or front panel display, indicating the update was successful.
- If update fails, "VERSION UP FAIL" appears on the top or front panel display, and ends the update sequence.

Notes

- Call "Home Entertainment Server" Customer Call Center (1-877-531-SONY (7669)) if an error message appears during software update.
- · The server may automatically re-start a few times depending on the updated content.
- Software update service may be discontinued without a prior notice.

Glossary

AAC (page 52)

"Advanced Audio Coding" is a digital audio codec adapted for digital broadcast. It features a high compression rate and high quality audio comparable to music CDs.

ATRAC (page 52)

"ATRAC Advanced Lossless" is a lossless audio compression technology that compresses and expands CD audio data completely, thus reproducing the original CD quality audio.

ATSC (page 56)

A technical standard for digital broadcasts in the U.S. The specification adapts MPEG-2 for video compression, and AC-3 for audio compression.

AVCHD (page 11, 149)

The AVCHD format is a high definition digital video camera format used to record SD (standard definition) or HD (high definition) signals of either the 1080i specification*¹ or the 720p specification*² on DVDs, using efficient data compression coding technology. The MPEG-4 AVC/H.264 format is adopted to compress video data, and the Dolby Digital or Linear PCM is used to compress audio data. The MPEG-4 AVC/H.264 format is capable of compressing images at higher efficiency than that of the conventional image compression format. The MPEG-4 AVC/ H.264 format enables a high definition (HD) video signal shot on a digital video camera recorder to be recorded on DVDs in the same way as for a standard definition (SD) television signal.

- *¹ A high definition specification that utilizes1080 effective scanning lines and the interlace format.
- *² A high definition specification that utilizes 720 effective scanning lines and the progressive format.

BD-R (page 11, 148)

BD-R (Blu-ray Disc Recordable) is a recordable, write-once Blu-ray Disc, available in the same capacities as the BD below. Since contents can be recorded and cannot be overwritten, a BD-R can be used to archive valuable data or storing and distributing video material.

BD-RE (page 11, 148)

BD-RE (Blu-ray Disc Rewritable) is a recordable and rewritable Blu-ray Disc, available in the same capacities as the

BD below. The re-recordable feature makes extensive editing and time-shifting applications possible.

BD-ROM (page 11, 149)

BD-ROMs (Blu-ray Disc Read-Only Memory) are commercially produced discs and are available in the same capacities as the BD below. Other than conventional movie and video contents, these discs have enhanced features such as interactive content, menu operations using pop-up menus (see below), selection of subtitle display, and slideshow. Although a BD-ROM may contain any form of data, most BD ROM discs will contain movies in High Definition format, for playback on Bluray Disc players.

Blu-ray Disc (BD) (page 11)

A disc format developed for recording/ playing high-definition (HD) video (for HDTV, etc.), and for storing large amounts of data. A single layer Blu-ray Disc holds up to 25 GB, and a dual-layer Blu-ray Disc holds up to 50 GB of data.

Chapter (page 40, 81)

Sections of a picture or a music feature that are smaller than titles. A title is composed of several chapters. Depending on the disc, no chapters may be recorded.



Copy protection signals (page 98)

Copy restriction set by copyright owners, etc.

These signals are included in some software or TV programs and restrict recording.

Cover Art (page 32, 77, 88)

The artwork displayed on the front cover of pre-recorded CD, DVD, and Blu-Ray discs.

CPRM (page 98)

"Content Protection for Recordable Media" is a technology for protecting digital entertainment content on recordable media.

Downmix (page 119)

A process in which surround sounds are converted to have fewer channels than the original source.

DHCP (Dynamic Host Configuration Protocol) (page 121)

A set of rules to automatically assign settings necessary for network communication. Usually the router or the Internet service provider's server functions as the DHCP server.

DLNA (Digital Living Network Alliance) (page 74)

An association that formulates audio/ photo/video distribution among PCs and other digital devices in a home network environment, or the format itself. DLNA certified devices are interoperable with each other, thus making them easy to communicate on the network.

Dolby Digital (page 114)

Digital audio compression technology developed by Dolby Laboratories. This technology conforms to multi-channel surround sound. The rear channel is stereo and there is a discrete subwoofer channel in this format. Dolby Digital provides the same discrete channels of high quality digital audio found in "Dolby Digital" theater surround sound systems. Good channel separation is realized because all of the channel data is recorded discretely and little deterioration occurs because all channel data processing is digital.

Dolby Surround (Pro Logic) (page 119)

Audio signal processing technology that Dolby Laboratories developed for surround sound. When the input signal contains a surround component, the Pro Logic process outputs the front, center and rear signals. The rear channel is monaural.

DRM (Digital Rights Management) (page 53)

Technologies for protecting the copyright of digital content, mainly by limiting its usages and copying.

DTS (page 114)

Digital audio compression technology that DTS, Inc. developed. This technology conforms to multi-channel surround sound. The rear channel is stereo and there is a discrete subwoofer channel in this format. DTS provides the same discrete channels of high quality digital audio.

Good channel separation is realized because all of the channel data is recorded discretely and little deterioration occurs because all channel data processing is digital.

DTS-HD (page 59)

DTS-HD is an extended format of the Coherent Acoustics audio coding system, which also encompasses DTS Digital Surround, DTS-ES, and DTS 96/ 24. DTS-HD is highly flexible in supporting the number of discrete surround sound channels. While 7.1ch surround sound is planned for Blu-ray Discs, the audio signals can be downmixed to 5.1 or 2 channels for backward compatibility, and the reproduced audio quality can either be at the bit rate of DTS Digital Surround or the lossless mode.

DVD VIDEO (page 11, 149)

A disc format that contains up to eight hours of moving pictures on a disc the same diameter as a CD. A single-layer single sided DVD holds up to 4.7 GB; a double layer single-sided DVD, 8.5 GB; a single layer double-sided DVD, 9.4 GB; double-layer double-sided DVD, 17 GB. The MPEG 2 format is adopted for the efficient video data compression. The variable rate coding technology that changes the data to be allocated according to the status of the picture is adopted for reproducing high-quality pictures. Audio information is recorded in a multi-channel format, such as Dolby Digital, allowing for a realistic audio presence.

DVD-R (page 11, 148)

A DVD-R is a recordable disc that is the same size as a DVD VIDEO. Contents can be recorded only once to a DVD-R, and will have the same format as a DVD VIDEO. The DVD-R has two different modes: VR mode and Video mode. DVDs created in Video mode have the same format as a DVD VIDEO, while discs created in VR (Video Recording) mode allow the contents to be programmed or edited.

DVD-RW (page 11, 148)

A DVD-RW is a recordable and rewritable disc that is the same size as a DVD VIDEO. The DVD-RW has two different modes: VR mode and Video mode. DVDs created in Video mode have the same format as a DVD VIDEO, while discs created in VR (Video Recording) mode allow the contents to be programmed or edited.

DVD+R (page 11, 148)

A DVD+R (read "plus R") is a recordable disc that is the same size as a DVD VIDEO. Contents can be recorded only once to a DVD+R, and will have the same format as a DVD VIDEO.

DVD+RW (page 11, 148)

A DVD+RW (read "plus RW") is a recordable and rewritable disc. DVD+RWs use a recording format that is comparable to the DVD VIDEO format.

Film-based software, Video-based software (page 112)

DVDs can be classified as Film-based or Video-based software. Film-based DVDs contain the same images (24 frames per second) that are shown at movie theaters. Video-based DVDs, such as television dramas or sitcoms, display images at 30 frames (or 60 fields) per second.

Frame (page 113)

Images that comprise moving pictures. The moving pictures consist of 30 frames per second.

Hard disk drive (page 5, 11)

A hard disk drive is a whole mechanical system that consists of disks and drive. Disks are flat, circular, rigid plates coated with a thin magnetic media. Magnetic heads record data on the rapidly spinning disks, and this enables the speedy and efficient reading and writing of data.

HDMI (High-Definition Multimedia Interface) (*page 23*, 102, 105)

HDMI is an interface that supports both video and audio on a single digital connection. The HDMI connection carries standard to high definition video signals and multi-channel audio signals to AV components such as HDMI equipped TVs, in digital form without degradation.

The HDMI specification supports HDCP (High-bandwidth Digital Contents Protection), a copy protection technology for digital entertainment contents for HDMI.

HDV (HDV format) (page 39)

A video format developed for DV cassettes to record and play highdefinition pictures. The server supports Interlace format signals of 1080 effective scanning lines (1080i).

When a compatible digital video camera is connected, the server can record the imported pictures on the HDD or a BD in the original high-definition picture quality.

Interlace format (page 101, 103)

Interlace format shows every other line of an image as a single "field" and is the standard method for displaying images on television. The even number field shows the even numbered lines of an image, and the odd numbered field shows the odd numbered lines of an image.

IP Address (page 121)

Device ID information used according to TCP/IP (Transmission Control Protocol/ Internet Protocol) on the network. IP addresses are expressed as a sequence of numbers in one to three digits separated by dots (e.g., 192.168.0.2).

LPCM (Linear PCM) (page 52, 114)

A digital audio format that does not cause deterioration in data compression and expansion.

MAC Address (Media Access Control Address) (page 117)

Unique numbers assigned to each LAN terminal to identify devices connected to the network.

You can check the server's MAC address in [Settings] – [Device Information].

Metadata (page 137)

Content information that the AMG database service provides in the Internet (e.g., title names of music CDs and BD/ DVD movies). Metadata contains artist names, genres, credits, copyright info, product numbers, etc.

Modem (page 26)

Device used for Internet connection. Modems are usually connected to a router in a home environment. Either a DSL Modem or a cable modem can be used, depending on the line connecting to the Internet service provider.

MPEG-2 (page 55)

One of the video data compression schemes established by the Moving Picture Experts Group (MPEG), which is adopted for DVD VIDEOs and digital broadcasts worldwide. The scheme specifies MPEG-2 PS (Program Stream) for recordable media such as a DVD VIDEO, and MPEG-2 TS (Transport Stream) for digital broadcasts and other communications.

MP3 (page 52, 111)

An audio file format that compresses PCM signals into 1/10 of its original size.

Parental Control (page 118)

A function of BD-ROMs/DVD VIDEOs to limit playback of the disc by the age of the users according to the limitation level in each country or area. The limitation varies from disc to disc; when it is activated, playback is completely prohibited, violent scenes are skipped or replaced with other scenes and so on.

PCM (page 114)

Pulse Code Modulation is one of the methods for converting analog signals to digital data. The analog signal is sampled regularly at uniform intervals, and then quantized to a series of symbols in a digital code. The quality of data is determined by the sampling frequency per second, and the quantization bit rate.

Pop-up menu (page 55)

An enhanced menu operation available on BD-ROMs. The pop-up menu appears when MENU is pressed during playback, and can be operated while playback is in progress.

Progressive signals (page 101, 103)

Compared to the Interlace format that alternately shows every other line of an image (field) to create one frame, the Progressive format shows the entire image at once as a single frame. This means that while the Interlace format can show 30 frames/60 fields in one second, the Progressive format can show 60 frames in one second. The overall picture quality increases and still images, text, and horizontal lines appear sharper.

Router (page 26)

Device that relays data flow from network to network. Routers are usually installed between the Internet and the home network. Some routers are capable of connecting multiple devices to the Internet.

Server/client (page 74)

In this manual, "client device" refers to devices that receive and play music content on the home network. And, HES-V1000 (this unit) that shares music in response to the client's request, is called "server."

SESF (Self-Encoded Stream Format) (page 56)

"Self-Encoded Stream Format" is a format defined in the Blu-ray Disc application specification. It contains MPEG-2 transport stream, which is encoded from analog SD (Standard Definition) TV signals or re-encoded from digital SDTV signals or digital broadcast streams.

Title (page 77)

The longest section of a picture or music feature on a DVD, movie, etc., in video software, or the entire album in audio software.

Track (page 88)

Sections of a music feature on a CD (a song).



Specifications

System

Laser: Semiconductor laser 200 Disc Changer:

For 12 cm discs, up to 196 can be loaded; for 8 cm discs, up to 4.

Supported memory card

Memory Stick:

Memory StickTM (supports standard/ Duo size, Memory Stick PROTM, Memory Stick PRO-HG, Memory Stick Micro (M2) and high speed data transmission)

CF:

CompactFlash[®] (TypeI/II), MicroDrive[®]

SD:

SD Memory Card, miniSD[™] Card, microSD[™] Card

xD:

xD-Picture Card™

Audio characteristics (BD-ROM/ DVD-ROM/CD Playback):

Frequency response: ±2 dB (20 to 20 kHz) Harmonic distortion: 0.01% (22 kHz LPF) Signal-to-noise ratio (S/N): 96 dB (A, 22 kHz LPF) Dynamic range: 96 dB (A, 22 kHz LPF)

Inputs/Outputs

(Jack name: Jack type/Output level/ Load impedance) AUDIO OUT L/R: Phono jack/2 Vrms/10 kilo ohms LINE OUT AUDIO (L/R): Phono jack/2 Vrms/10 kilo ohms DIGITAL OUT (OPTICAL):

Optical output jack/–18 dBm (wave length 660 nm)

DIGITAL OUT (COAXIAL): Phono jack/0.5 Vp-p/75 ohms

HDMI OUT:

HDMI 19-pin standard connector COMPONENT VIDEO OUT(Y, PB,

Pr):

Phono jack/Y: 1.0 Vp-p/PB, PR: progressive or interlace = 0.7 Vp-p/75 ohms

LINE OUT VIDEO: Phono jack/1.0

Vp-p/75 ohms

LINE OUT S VIDEO:

4-pin mini DIN/Y: 1.0 Vp-p, C: 0.286 Vp-p/75 ohms

LINE IN 1 AUDIO (L/R): Phono jack/2 Vrms/Over 50 kilo ohms

LINE 2 AUDIO (L/R) (monaural): Phono jack/2 Vrms/Over 50 kilo ohms LINE IN 1, 2 VIDEO: Phono jack/1.0 Vp-p/75 ohms LINE IN 1, 2 S VIDEO: 4-pin mini DIN/Y:1.0 Vp-p, C:0.286 Vp-p/75 ohms HDV 1080i/DV IN:

i.LINK S100 4-pin connector/ HDV1080i IN, DV IN CONTROL S IN/IR IN: Mini jack LAN (10/100): 10BASE-T/100BASE-TX Connector

General

Power requirements: 120 V AC, 60 Hz Power consumption: 70 W Dimensions (approx.): $308 \times 803 \times 401 \text{ mm} (12 \ ^{1}/_{4} \times 31 \ ^{5}/_{8} \times 15 \ ^{7}/_{8} \text{ inch}) (width/height/depth) excl. projecting parts$ $Mass (approx.): 48 kg (105 \ ^{3}/_{4} lb)$ Operating temperature: $<math>5 \ ^{\circ}$ C to 35 $^{\circ}$ C (41 $^{\circ}$ F to 95 $^{\circ}$ F) Operating humidity: $25 \ \%$ to 80 \%

Supplied accessories

See page 22.

Specifications and design are subject to change without notice.
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About i.LINK

The HDV1080i/DV IN jack on this server is an i.LINK compliant DV IN jack. This section describes the i.LINK standard and its features.

This device does not support the DTLA copy protection technology.

What is i.LINK?

i.LINK is a digital serial interface for handling digital video, digital audio and other data in two directions between equipment having the i.LINK jack, and for controlling other equipment. i.LINK-compatible pieces of equipment can be connected by a single i.LINK cable. Possible applications are operations and data transactions with various digital AV devices. When two or more i.LINK-compatible equipment are connected to this recorder in a daisy chain, operations and data transactions are possible with not only the equipment that this recorder is connected to but also with other devices via the directly connected equipment.

Note, however, that the method of operation sometimes varies according to the characteristics and specifications of the equipment to be connected, and that operations and data transactions are sometimes not possible on some connected equipment.

About the name "i.LINK"

i.LINK is a more familiar term for IEEE 1394 data transport bus proposed by SONY, and is a trademark approved by many corporations. IEEE 1394 is an international standard standardized by the Institute of Electrical and Electronics Engineers.

i.LINK baud rate

i.LINK's maximum baud rate varies according to the equipment. Three maximum baud rates are defined:

S100 (approx. 100 Mbps*)

S200 (approx. 200 Mbps)

S400 (approx. 400 Mbps)

The baud rate is listed under "Specifications" in the instruction manual of each device. It is also indicated near the i.LINK jack on some equipment.

The maximum baud rate of this server is "S100."

When the server is connected to equipment having a different maximum baud rate, the baud rate sometimes differs from the indicated baud rate.

* What is Mbps?

Mbps stands for megabits per second, or the amount of data that can be sent or received in one second. For example, a baud rate of 100 Mbps means that 100 megabits of data can be sent in one second.

i.LINK functions on this server

The HDV1080i/DV IN jack on this server is for input only. The DV IN jack will not accept MICROMV signals from equipment such as a MICROMV digital video camera with an i.LINK jack. Also, i.LINK jacks on D-VHS decks are different in signal format (MPEG TS format) and cannot be connected. For information about connection and uses, see page 39. For details on precautions when connecting this server and available applications, also see the instruction manuals for the equipment to be connected.

Required i.LINK cable

Use the Sony i.LINK 4-pin-to-4-pin cable (during DV importing). The server complies with IEEE 1394-1995 and IEEE 1394a-2000 standards.

Notes about i.LINK

- i.LINK does not automatically guarantee compatible operations among all i.LINK devices. Transmission of data and control information between
- connected devices depends on the capability of each device.
 Normally only one device can be connected to the server with an i.LINK cable (DV cable). If you are connecting to a DV device that can be connected to multiple DV devices, refer to the instructions supplied with the DV device.
- The server can be connected to Sony HDV/DV digital camcorders (excluding DCR-VX700/VX1000 and DCR-PC7).
- You cannot connect non-Sony HDV/DV digital camcorders to the server.

About All Media Guide

All Media Guide, based in Ann Arbor, Michigan, is the leading authority on music, movies and games. Since 1991, the company has provided comprehensive content and technologies to support the physical and digital distribution of entertainment media. With thousands of musicologists, film historians, and game specialists contributing over the years, AMG has created the industry's cleanest, most in-depth database of information and original editorial content.

AMG content and technologies are licensed by leading consumer electronics manufacturers, retailers, and Internet sites. Visit AMG at www.allmusic.com, www.allmovie.com and www.allgame.com

What is AMG?

AMG stands for All Media Guide, which is a company that has database of music CDs and DVDs. The database that the AMG has (AMG Database) contains artist names and album names for music CDs, and movie title, director, and casts for BD/DVD movies.

The AMG function on this server

The server uses the database service that AMG provides ("AMG Service") to acquire music CD/BD and DVD movie data through the Internet as follows:

• On automatic disc registration

The server automatically selects the most pertinent data from the search results and registers the data as the BD/DVD information.

• On manual disc registration

The server registers data that the user selected from the search results.

Notes

- Internet connection is required to use the AMG Service. Configure the Internet Settings correctly (page 121).
- You will need to agree on "End User License Agreement" in the package and "AMG Terms of Use" displayed when you firstly use AMG Service. (i) As to "AMG Terms of Use", press HOME and select [Settings]–[System Settings]–[All Media Guide Settings] (*page 117*) and (ii) read "End User License Agreement" carefully.
- Data will not be displayed or received if it is not registered to the AMG Database.
- The number of the displayed cover arts of music CDs, DVD-ROMs, and BD-ROMs are limited. Such cover arts are displayed while the corresponding CDs, DVD-ROMs and BD-ROMs remain in the changer.
- AMG Service is provided only to commercially available music CDs, DVD-ROMs, and BD-ROMs.*
- AMG Service may end without a prior notice.
- * Nothing will be displayed for content copied on a recordable media such as a CD-R/CD-RW and DVD-R.

Note that no data can be acquired for music content imported to the HDD.

TV Display Viewing Options

On wide-screen TVs or TVs with a wide-screen function, the display options will depend on the TV's wide-mode settings as follows. See also your TV's manual for the wide-mode settings.

For details about High-Definition (HD) and Standard-Definition (SD) pictures, see "About video signals" (page 100).



About Removable Media and Recording Modes

Recordable/playable discs

DVD-RWs (VR mode) and DVD-Rs (VR mode) recorded on this server are playable only on compatible devices. Note that these discs will not play on a normal DVD player.

O:Yes

									X:No
	Intornal			Re	gular-shaped,	12 cm discs or	nly		
	HDD	BD-RE	BD-R	DVD-RW (VR)	DVD-RW (Video)	DVD-R (VR)	DVD-R (Video)	DVD+RW	DVD+R DVD+R DL
Supported versions		Ver.2.1 (single layer)	Ver.1.1 (single layer)	Ver.1.1, Ve Ver1.2, Ve (6x-spe	r1.1 CPRM, r1.2 CPRM ed max)	Ver.2.0, Ve Ver2.1, Ve (16x-spe	r2.0 CPRM, r2.1 CPRM eed max)	Up to 8x- speed discs	Up to 16x- speed discs (Up to 8x- speed for DVD+DL)
Maximum Recording Time (approx)	543 hrs	26 hrs (Single	41 min e layer)	6 hrs	6 hrs	6 hrs	6 hrs	6 hrs	6hrs (10 hrs 51 min for DVD+R DL)
Rewritable	0	0	×	0	0	×	×	0	×
Photo Import to HDD	_	0	0	0	0	0	0	0	0
16:9 picture recording	0	0	0	0	O*1	0	O*1	×	×
Mixed recording of 16:9 and 4:3	0	0	0	0	O*2	0	O ^{*2}	Always records in 4:3	Always records in 4:3
Video playback	0	0	0	0	0	0	0	0	0
Photo (JPEG) playback	0	0	0	0	0	0	0	0	0
HDD-to-Disc Photo Copy	_	0	0	O*3	O*3	Brand-new	discs only	O*3	Brand-new discs only (DVD+R DL is unusable)
Playback compatibility	_	Playable on many BD devices	Playable on many BD devices	Playable on VR mode compatible devices	Playable on many DVD devices (finalizing required)	Playable on DVD-R VR mode compatible devices (finalizing required)	Playable on many DVD devices (finalizing required)	Playable on many DVD devices	Playable on many DVD devices (finalizing required)

*1 Only when the recording mode is XP or SP and [Video Output Aspect Ratio] is set to [16:9] (page 112).
 *2 You cannot record both 16:9 Letterbox pictures and 4:3 standard pictures in one title.
 *3 The disc's previous recordings will be erased after photos are copied.

Playback compatibility with commercially available disc packages, and discs recorded on other devices

The server plays both 12 cm and 8 cm discs (excluding 8 cm DVD-R DL discs).

											X:NO
	Recor on ot devic	Recorded on other devices			Record	ed on other	devices			Recorded on other devices	Super
	BD- ROM	BD-RE/ BD-R (single layer) ^{*1/} *2	DVD VIDEO	DVD- RW	DVD-R/ DVD-R DL ^{*7}	DVD+R W/ DVD+R/ DVD+R DL	DVD- RAM ^{*3}	Discs recorded in AVCHD format	Music CD ^{*4}	CD-R/ CD-RW	Audio CD ^{*11}
Video Import to HDD	×	O*5*10	×	O ^{*5/*6}	O ^{*5/*6}	O*5/*6	O*5	×	×	×	×
Photo Import to HDD	×	0	0	O*6	O*6	O*6	0	×	×	0	×
Video Playback	0	0	0	O*6	O*6	O*6	0	O ^{*6}	×	×	×
Music Playback ^{*8}	×	0	×	0	O*6	O*6	0	×	0	0	CD layer only
Photo Playback	0	0	0	O*6	O*6	O*6	0	×	×	0	×

*1 BD-R/BD-RE (dual layer) are not supported.

*2 BD-RE (Ver.2.1) and BD-R (Ver.1.1) are supported.

*3 Only DVD-RAM compliant with Ver.2.0/2.1 Video Recording formats is supported for playback.

Remove the disc from its cartridge if it is a cartridge type (except Type 1).

⁴⁴ For music CDs with the **DEE** logo only. ⁵⁵ Video titles guarded with "Copy Once" signals cannot be imported.

^{*6} Only when the disc is finalized.

^{*7} For DVD-R DL discs, only videos recorded in Video mode can be played.

^{*8} MP3 and Linear PCM are the playable format.

^{*9} DVD-R DL 8 cm discs are not supported.

*10Only BD-REs/BD-Rs recorded in BDAV format are supported. BDMV format BD-REs/BD-Rs are not supported.

*11Only hybrid Super Audio CDs have CD layers.

Notes

The server cannot play the following discs:

- BD-ROMs without region code "A."

- DVDs that do not contain a region code "1" or "0 (ALL)."

- Discs recorded in a color system other than NTSC.

Playback compatibility with discs recorded in AVCHD format

The server can play the following discs. However, not all discs listed below are guaranteed to play.

				O:Yes ×:No
DVD-RW	DVD-R/ DVD-R DL	DVD+RW	DVD+R/ DVD+R DL	DVD-RAM
O*1	O*1/*2	O*1	O*1	0

^{*1} Finalized discs only.

*² Does not include 8 cm DVD-R DL discs.

O:Yes

List of recording modes

Recording modes and recordable time for HDD/BD

Recording mode		Recordable time (approx)		
		HDD	BD* 1 layer (25GB)	
DR (High Definition quality)				
HDV/DV IN jack connection only		44 hours	1 hour 55 minutes	
XR	(High quality)	69 hours	3 hours 26 minutes	
SR	(Standard)	137 hours	6 hours 45 minutes	
LR	•	272 hours	13 hours 23 minutes	
ER (Long duration)		543 hours	26 hours 41 minutes	

* Recordable time may differ depending on the following (SR, LR or ER only):

- when recording additional videos on an edited BD.

- when recording only still images or sound.

Recording modes and recordable time for DVD

Recoding mode		Recordable time (approx)			
		DVD**			
		DVD(except DVD+R DL)	DVD+R DL		
ХР	(High quality)	1 hour	1 hour 48 minutes		
SP	(Standard)	2 hours	3 hours 37 minutes		
LP	↓	4 hours	7 hours 14 minutes		
EP	(Long duration)	6 hours	10 hours 51 minutes		

* *Recordable time may differ depending on the following (SP, LP or EP only): - when recording videos in addition on an edited DVD.

- when recording only still images or sound.

Supported memory card types

The following memory cards can be used with the unit^{*1}.

Memory Stick *2	
Memory Stick [®]	
Memory Stick Duo TM	
Memory Stick PRO ^{TM *3}	
Memory Stick PRO Duo ^{TM *3}	

Memory Stick PRO-HG Duo^{TM *6}

Memory Stick Micro (M2) *3 *4

CF *7

CompactFlash® TypeI/II

MicroDrive®

SD *5 *8

SD Memory Card

 $miniSD^{TM}$ Card

microSDTM Card ^{*4}

xD-Picture Card *9

xD-Picture CardTM

^{*1} Not all memory cards are guaranteed to work.

- Operation is not assured if nonsupported memory cards are used.
 *2 Up to 8 GB of Sony "Memory Stick" are assured to be operable on this server. However, not all "Memory Stick" are guaranteed to function
- *3 Parallel data transfer (high-speed data transfer) is supported. Actual transfer speed may vary depending on media.
- *4 An adaptor (not supplied) is required.
- *5 Copyright protect functions are not supported. SDHC Memory Cards are not supported.
- *6 Actual transfer speed is the same as "Memory Stick PRO".
- *7 Up to 8 GB of CompactFlash card are assured to be operable on this server.
- $^{\ast 8}\,$ Up to 8 GB of SD memory Card are assured to be operable on this server.
- *9 Up to 2 GB of xD-Picture card are assured to be operable on this server.

Notes on using "Memory Stick"

- Do not eject a "Memory Stick" while reading data.
- Data may be damaged if:
- You eject a "Memory Stick" or turn off the server while the it is reading data.
- You use a "Memory Stick" in a place where susceptible to static electricity or electric noise.
- We recommend that you make a backup copy of important data.
- Do not touch the terminal of the "Memory Stick" with your fingers or metallic objects.
- Do not bend, drop, or impact a "Memory Stick."
- Do not disassemble or modify a "Memory Stick."
- Keep a "Memory Stick" away from water.
- Do not use or store a "Memory Stick" under an unfavorable condition as below:
- Extremely hot place (such as in a parked car with windows closed in summer, or a spot under direct sunlight)
- Humid place
- Place near corrosive substances

Note on using memory cards

Memory cards can only be used for import and playback of photos.

The server does not import, play, or record video and music content with any of the memory cards.

Region code

Your server has a region code printed on the back of the unit and will only play commercial BDs/DVDs (playback only) labeled with identical region codes. This system is used to protect copyrights.

Commercial DVDs labeled is will also play on this server.

If you try to play any other BD/DVD, the message "Playback of this disc is prohibited by area restriction" will appear on the TV screen. Depending on the commercial BD/DVD, there may be no region code indication, even though playing the commercial BD/DVD is prohibited by area restrictions.



Language Code List

See page 118 for details.

Code	Language
1027	Afar
1028	Abkhazian
1032	Afrikaans
1039	Amharic
1044	Arabic
1045	Assamese
1051	Avmara
1052	Azerbaijani
1053	Bashkir
1057	Byelorussian
1059	Bulgarian
1060	Bihari
1061	Bislama
1066	Bengali; Bangla
1067	Tibetan
1070	Breton
1079	Catalan
1093	Corsican
1097	Czech
1103	Welsh
1105	Danish
1109	German
1130	Bhutani
1142	Greek
1144	English
1145	Esperanto
1149	Spanish
1150	Estonian
1151	Basque
1157	Persian
1165	Finnish
1166	Fiji
1171	Faroese
1174	French
1181	Frisian
1183	Irish
1186	Scots Gaelic
1194	Galician
1196	Guarani
1203	Gujarati
1209	Hausa
1217	Hindi
1226	Croatian
1229	Hungarian
1233	Armenian
1235	Interlingua
1239	Interlingue

Code	Language
1245	Inupiak
1248	Indonesian
1253	Icelandic
1254	Italian
1257	Hebrew
1261	Japanese
1269	Yiddish
1283	Javanese
1287	Georgian
1297	Kazakh
1298	Greenlandic
1299	Cambodian
1300	Kannada
1301	Korean
1305	Kashmiri
1307	Kurdish
1311	Kirghiz
1313	Latin
1326	Lingala
1327	Laothian
1332	Lithuanian
1334	Latvian: Lettish
1345	Malagasy
1347	Maori
1349	Macedonian
1350	Malavalam
1352	Mongolian
1353	Moldavian
1356	Marathi
1357	Malay
1358	Maltese
1363	Burmese
1365	Nauru
1369	Nepali
1376	Dutch
1379	Norwegian
1393	Occitan
1403	(Afan)Oromo
1408	Oriva
1417	Puniabi
1428	Polish
1435	Pashto; Pushto
1436	Portuguese
1463	Ouechua
1481	Rhaeto-Romance
1482	Kirundi
1483	Romanian
1489	Russian
1491	Kinyarwanda
1495	Sanskrit
1498	Sindhi
1501	Sangho
1503	Singhalese
1505	Slovak
1303	SIUVAN

Code	Language
1506	Slovenian
1507	Samoan
1508	Shona
1509	Somali
1511	Albanian
1512	Serbian
1513	Siswati
1514	Sesotho
1515	Sundanese
1516	Swedish
1517	Swahili
1521	Tamil
1525	Telugu
1527	Tajik
1528	Thai
1529	Tigrinya
1531	Turkmen
1532	Tagalog
1534	Setswana
1535	Tonga
1538	Turkish
1539	Tsonga
1540	Tatar
1543	Twi
1557	Ukrainian
1564	Urdu
1572	Uzbek
1581	Vietnamese
1587	Volapük
1613	Wolof
1632	Xhosa
1665	Yoruba
1684	Chinese
1697	Zulu
1703	Not specified

The language spellings conform to the ISO 639: 1988 (E/F) standard.

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