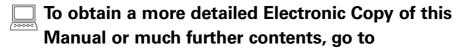
Blu-ray Disc™ / DVD Player



Owner's Manual

Manual del Propietario

FWBP505F



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1. INTRODUCTION

1.1. Safety Instructions

To Avoid the Hazards of Electrical Shock and Fire

- Do not handle the AC power cord with wet hands.
- Do not pull on the AC power cord when disconnecting it from an AC outlet. Grasp it by the plug.
- Do not put your fingers or objects into the unit.

Location and Handling

- Do not install the unit in direct sunlight, near strong magnetic fields, or in a place subject to dust or strong vibration.
- Avoid a place with drastic temperature changes.
- Install the unit in a horizontal and stable position. Do not place anything directly on top or bottom of the unit.
 Depending on your external devices, noise or disturbance in the picture and/or sound may be generated if the unit is placed too close to them. In this case, please ensure enough space between the external devices and the unit.
- Depending on the environment, the temperature of this unit may increase slightly. This is not a malfunction.
- Be sure to remove the disc and unplug the AC power cord from the outlet before moving the unit.
- In order to avoid interruption of ventilation, this unit should not be placed in built-in equipment such as a book cabinet, rack, etc., and the vents of this unit should not be covered with anything such as a tablecloth, curtain, newspaper, etc. Make sure to leave a space of 5.9 inches (15cm) or more around this apparatus.
- When installing this unit in a temperate environment, avoid a place with rapid temperature changes.
- This unit should not be used in a tropical environment as it has not been evaluated under such conditions.
- No objects should be placed directly on or under this unit, especially lighted candles or other flaming objects.

Dew Condensation Warning

- Dew condensation may form inside the unit in the following conditions. If so, do not use this unit at least for a few hours until its inside gets dry.
 - The unit is moved from a cold place to a warm place.
 - Under conditions of high humidity.
 - After heating a cold room.

Note about Recycling

This unit's packaging materials are recyclable and can be reused. Please dispose of any materials
in accordance with your local recycling regulations.



- Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.
- For product recycling information, please visit <u>www.sanyo-av.com</u>

Click on



Disposal of Used Batteries

 In certain localities, disposing batteries with household waste is not permitted. Please ensure you dispose of batteries according to local regulations.

1.2. Included Accessories

- Remote Control (NC092UL)
- Quick Start Guide

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2. FEATURES

2.1. Features

Blu-rav Disc™

You can enjoy Blu-ray Disc™ which is capable of storing five times more data than a conventional DVD.

BD-Java

With some Blu-ray discs which contain Java applications, you can enjoy interactive functions such as games or interactive menus.

DVD upscaling for enhanced picture quality

Your current DVD will look even better than before thanks to video upscaling. Upscaling will increase the resolution of standard definition DVD to high definition up to 1080p over an HDMI connection. The picture will be less jagged and more realistic for a near high definition experience.

Enjoy your content on different kinds of media

Full backwards compatibility with DVD, CD and USB Memory Stick ensures that you can continue to enjoy your current audio-video collection. Additionally, you can enjoy AVCHD (for DVD-RW/-R only) / JPEG files.

Listen to rich multi-channel surround sound

Multi-channel surround sound, which realizes realto-life sound and makes you feel that you are really there.

Easy and simple connection to your HDTV via HDMI

Connect this unit to your HDTV with one single HDMI (High-Definition Multimedia Interface) cable. It is recommended to use a High Speed HDMI cable for better compatibility. The high definition video output signal will be transferred to your HDTV without conversion to analog signals, so you will get excellent picture and sound quality, completely free from noise. Thanks to other multiple outputs, you can also easily connect to your home theater system or amplifier.

HDMI CEC(Consumer Electronics Control)

This unit supports HDMI CEC, which allows integrated system control over an HDMI cable and is part of the HDMI standard. This function may not work properly on some devices.

PiP (BONUSVIEW™)

Some BD-videos have the PiP function which enables you to display the Secondary Video in the Primary Video. You can call up the Secondary Video by pressing [MODE] whenever the scene contains a Secondary Video.

Pop Menu

Some BD-videos have a Pop Menu which is a navigation menu that can be called up and be operated on the TV screen without interrupting playback. You can call up the Pop Menu by pressing [DISC MENU]. Contents in the Pop Menu vary depending on the disc.

HDMI 1080p/24 output (Blu-ray Disc[™] only)

This unit is equipped with the feature which can provide smooth movement during playback of film originated material with the frame rate of 24 frames per second with progressive. (Available only when the display device is connected with an HDMI cable.) Refer to "HDMI Video Resolution" on page 36.

Playing back contents from a USB Memory Stick

You can play back JPEG files stored on a USB Memory Stick. BD-ROM discs sometimes store picture-in-picture commentary, subtitles or other extras on a USB Memory Stick for use during playback with the BD-video.

Playing back AVCHD files

This unit supports playback of AVCHD format files (new format for high definition video camcorders) recorded on a disc / SD Memory Card using USB card reader / USB hub (not included). Your high definition personal archive is playable in HD quality.

x.v.Color

This unit supports playback of video contents on discs recorded with "x.v.Color" technology. To watch this video content with the "x.v.Color" space, a TV or other display device supporting both video image reproduction using "x.v.Color" standard and capability of manual switching of its color space setting is required. Please refer to the user manual of your display device for further information.

2.2. Product Info

"Product Info" screen provides information about this unit's software version.

You can also download the latest software from the SANYO website and update it yourself if it is newer than the version currently on your unit. The current version of software on your unit can be seen on the "Product Info" screen.

To access "Product Info", follow the procedure below.

- 1. Press [HOME].
- 2. Use [◀ / ▶] to select "Settings", then press [OK].
- 3. Use [▲ / ▼] to select "Others", then press [OK].
- **4.** Use [▲ / ▼] to select "Product Info", then press [OK].

2.3. Symbols Used in this Owner's Manual

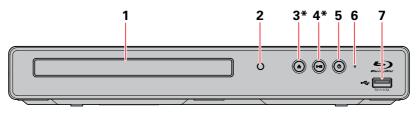
To specify which media type each function is applicable to, a combination of the symbols shown below will be depicted next to that function's explanation.

Symbol	Description
VIDEO	Description refers to BD-video
O DVD VIDEO	Description refers to DVD-video
Ø CD	Description refers to audio CD / DTS-CD
AVCHD	Description refers to DVD-RW/-R with AVCHD files
JPEG	Description refers to BD-RE/-R, DVD-RW/-R, CD-RW/-R and USB Memory Stick with JPEG files

If you do not find any of the symbols listed above under the function heading, the operation is applicable to all media.

3. FUNCTIONAL OVERVIEW

3.1. Front Panel



- * The unit can also be turned on by pressing this button.
- 1. Disc tray
- 2. Infrared sensor window
- 3. ▲(OPEN/CLOSE) button*
- 4. ►II(PLAY/PAUSE) button*
 - · Press to start playback or resume playback.
 - During playback, press to pause playback.
- 5. (POWER) button
- 6. Power-On indicator
 - Flashes while unit is starting up.
 - Dims and flickers when IR remote signal is received.
- 7. USB Input

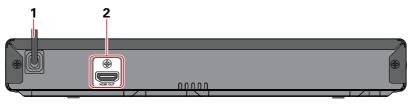
Caution

- Do not connect any device other than USB Memory Stick or USB card reader into the USB Input. (e.g. PC, external HDD, digital camera, keyboard, mouse, etc.)
- When connecting a USB Memory Stick, connect it directly to the USB Input. Do not use a USB extension cable.

⊜ Note

Due to new ENERGY STAR® requirements, this unit will automatically turn on the screen saver after 5
minutes of inactivity and enter standby mode after 25 minutes of inactivity.

3.2. Rear Panel



1. AC power cord

2. HDMI OUT jack

Caution

- Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.
- This unit does not have aTV RF modulator.

3.3. Remote Control



* The unit can also be turned on by pressing these buttons.

1. \circ (POWER) button

 Press to Turn On the unit, or to switch the unit into Standby mode. (To completely Turn Off the unit, you must unplug the AC power cord.)

2. DISC MENU button

 During Playback (Blu-ray Disc[™] or DVD), press to select the Menu (Top Menu or Pop Menu/ Menu).

3. **▲** / **▼** / **◄** / **▶** buttons

· Press to select items or settings.

4. SEARCH button

 Press to display the Number Select Menu or the Search Menu.

5. **◄◄**(REVERSE) button

During playback, press to Fast Reverse the playback.

6. ► (PLAY) button*

Press to start playback or resume playback.

7. |◀◀(SKIP) button

- During playback, press once to return to the beginning of the currentTitle, Chapter, Track or File.
- During playback, press twice to return to the previous Title, Chapter, Track or File.
- During the JPEG playback, press to return to the previous File.

8. ■(STOP) button

Press to Stop playback.

9. DISPLAY button

Press to Display the on-screen display menu.

10. REPEAT button

• Press to select Repeat mode.

11. RED / GREEN / BLUE / YELLOW buttons

 Press to activate shortcut keys on some BDvideo functions. When a file list is shown, press to switch between pages.

12. **≜**(OPEN/CLOSE) button*

• Press to Open or Close the disc tray.

13. HOME button

• Press to display the Home Menu.

14. MODE button

• During playback, press to display the Play Menu.

15. OK button

• Press to confirm or select menu items.

16. RETURN button

 Press to Return to the previously displayed menu or screen function.

17. ▶▶ (FORWARD) button

- During playback, press to Fast Forward the playback.
- When playback is in pause, press to Slow Forward the playback.

18. ▶▶I(SKIP) button

- During playback, press to Skip to the next Chapter, Track or File.
- When playback is in pause mode, press to Forward the playback picture by picture.

19. **II**(PAUSE) button

• Press to Pause playback.

20. AUDIO button

 Press to select the Audio Channel (such as audio languages) on a disc.

21. SUBTITLE button

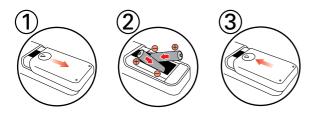
• Press to select Subtitles on a disc.

⊜ Note

- The Power-On indicator on the front panel dims and flickers when it receives the IR signal from the remote control.
- Use the included remote control. Remote-control operation on any other remote control, such as a universal remote control, is not guaranteed.

■ Installing the Batteries in the Remote Control

Install 2 AAA (1.5V) batteries matching the polarity indicated inside battery compartment of the remote control.(not included)



Caution

Incorrect use of batteries can result in hazards such as leakage and bursting. Please observe the following:

- Lithium or ni-cad and ni-mh rechargeable batteries are not recommended to use for remote control.
- Do not mix different types of batteries such as alkaline and standard (carbon-zinc).
- · Do not mix new and old batteries together.
- Do not use different kinds of batteries together.
 Although they may look similar, different batteries may have different voltages.
- Make sure that the + and ends of each battery match the indications in the battery compartment.
- Remove batteries from battery compartment, when the remote is not going to be used for a month or more
- When disposing of used batteries, please comply with governmental regulations or environmental public rules that apply in your country or area.
- Do not recharge, short-circuit, heat, burn or disassemble batteries.

■ Using the Remote Control

Remote Control Usage Guidelines:

- Make sure that there are no obstacles between the remote control and the infrared sensor window on the unit.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the infrared sensor window of the unit.
- Remote controls of different devices can interfere with each other. Avoid using a remote control from another device which is located close to the unit.
- Replace the batteries when you notice a fall-off in the operating range of the remote control.
- The maximum operable ranges from the unit are as follows.

- Line of sight:

approx. 23 feet (7 m)

- Either side of the center:

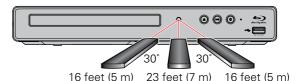
approx. 16 feet (5 m) within 30°

- Above:

approx. 16 feet (5 m) within 15°

- Below:

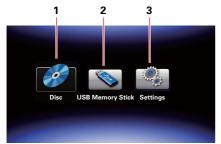
approx. 10 feet (3 m) within 30°



3.4. Guide to On-Screen Display

■ Home Menu

When you Turn On the unit, Home Menu will appear automatically. Otherwise, press [HOME].



1. "Disc": Initiates playback of inserted disc, displays a list of Tracks / Files or the Media

Filter Menu

2. "USB Memory Stick": Displays a list of Tracks / Files on the connected USB Memory Stick or the Media Filter Menu

For a list of supported file formats, refer to page 17.

3. "Settings": To access the Setup Menu

■ Setup Menu



1. Category

2. Menus / Options: Displays options for the highlighted item on the left whenever available

■ Play Menu

During playback, press [MODE] to display the Play Menu.

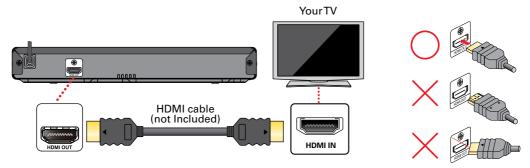
e.g.) Blu-ray Disc™



4. CONNECTIONS

4.1. Connection to a TV

■ HDMI Connection (Supports up to 1080i^(*1), 1080p^(*2), 1080p/24^(*3) resolution.)



No analog audio connection required.

(*1) 1080i: Outputs video data with a frame rate of 30 frames per second.

(*2) 1080p: Outputs video data with a frame rate of 60 frames per second.

(*3) 1080p/24: Outputs video data with a frame rate of 24 frames per second.

- Do not tilt the connector when inserting it into the HDMI jack, and make sure the shapes of the jack and the connector are matched.
- When connected to an HDCP incompatible display device, the picture will not be displayed properly.
- Use an HDMI cable with the HDMI logo (a certified HDMI cable) for this connection. High Speed HDMI cable (also known as HDMI category 2 cable) is recommended for better compatibility.

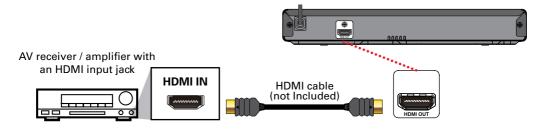
⊜ Note

- If the TV receives no Audio / Video signal after properly connecting the unit and the TV with an HDMI cable, it may be the TV. Please refer to the TV's user's manual.
- If the TV receives no Audio signal after properly connecting the unit and the TV with an HDMI cable, make sure the TV input is not an HDMI-DVI Input terminal.

4.2. Connection to an Audio System

- When you change the connections, all devices should be Turned Off.
- When connecting the unit to an external audio system, refer to the User Manual for Setup / Configuration help.

■ HDMI Audio Connection



4.3. HDMI Audio Output

	"Audio Output" setting →	"Bitstream"		"LPCM"			
	"BD Audio Mode" setting →	"All" or "Primary Audio Only" "Primary/ Secondary Au		"Primary Audio Only"	"All" or "Primary/ Secondary Audio"		
Media ▼	Audio Source ↓	Which audio format device.	can be output depen	ds on the compatibili	ty of the connected		
	Dolby Digital	Dolby Digital or D	ownmix 2ch PCM	Downmix	2ch PCM		
	Dolby Digital Plus	Dolby Digital Plus or Dolby Digital or Downmix 2ch PCM*1	or Dolby Digital Dolby Digital or Downmix 2ch PCM*1		Downmix 2ch PCM*1		
BD-Video	DolbyTrueHD	Dolby TrueHD or Dolby Digital or Downmix 2ch PCM*2	Dolby Digital or Downmix 2ch PCM*2	Downmix 2ch PCM*2	Downmix 2ch PCM*2		
	DTS®	DTS® or Dowr	DTS® or Downmix 2ch PCM		Downmix 2ch PCM		
	DTS-HD®	DTS-HD® or DTS® or Or Downmix 2ch PCM*3		Downmix	2ch PCM*³		
	LPCM		Multi	LPCM			
	Dolby Digital	Dolby Digital or	Downmix 2ch PCM	Downmix 2ch PCM			
DVD-Video	DTS®	DTS® or Dowr	nmix 2ch PCM	Downmix 2ch PCM			
DVD-VIdeo	MPEG	Multi LPCM		Multi LPCM			
	LPCM	Multi LPCM					
Audio CD	LPCM	2ch LPCM					
DTS-CD	DTS®	DTS® or Downmix 2ch PCM Downmix 2ch PCM			2ch PCM		
AVCHD	Dolby Digital	Dolby Digital or Downmix 2ch PCM Downmix 2ch PCM					
AVOID	LPCM		Multi LPCM				

^{*1)} Only Dolby Digital parts in Dolby Digital Plus Stream are decoded, then it will Downmix 2ch PCM.

Note

- If the connected device is not compatible with the HDMI BITSTREAM, audio will be output as multi LPCM or 2-channel down-mixed LPCM depending on the capability of the connected device even if you select "Bitstream" in "Audio Output" setting.
- When playing back a BD-Video which only contains the primary audio, the audio output will be the same case as "Primary Audio Only" even if the "BD Audio Mode" is set to "All" or "Primary/Secondary Audio".
- If "BD Audio Mode" is set to "All" or "Primary/Secondary Audio", HD Audio will not be output. In order to enable the Button Sound feature, set "BD Audio Mode" to "All". (The Button Sound setting may be found in the Pop Menu.
- In order to configure "Audio Output" in the "HDMI" settings, "Voice Guide" must be set to "Off".

^{*2)} Only 2ch presentation parts in Dolby TruHD Stream are decoded.

^{*3)} Only the core substream is decoded.

5. BEFORE YOU START

5.1. Finding a Viewing Video Source Input on Your TV

After you have completed all of the connections to your TV, review the steps below.

- 1. Press [(POWER)] to Turn On the unit.
- 2. Turn On your TV.
- 3. Please locate the Source / Input / AUX / Video button on TV's remote control. The button may vary on the TV brand and model. Once you have located the button, press until you see "Please Wait..." on the Screen.



This is the correct viewing of the video Source Input.

• If the TV is connected by an HDMI cable, it may take a few moments for the opening picture to appear.

5.2. Initial Setup

Please follow the instructions below to complete the initial setup.

1. Language setup screen will appear. Use [▲ / ▼] to select your language, then press [OK].



2. Voice Guide Setup screen will appear. Use [▲ / ▼] to select "On" or "Off", then press [OK].



This screen will not appear when "Français" is selected under the "Language" setting.

■ How to Reset the OSD Language

You can reset the OSD language if you selected the wrong language.

- 1. Press [HOME] to display the Home Menu.
- 2. Use [◀ / ▶] to select ", then press [OK].
 - This item is "Settings" (English) / "Configuraciones" (Spanish) / "Paramètres" (French).
 - From here on, please select one of the following items you can find on screen:
- 3. Use [▲ / ▼] to select "Playback" (English) / "Reproducción" (Spanish) / "Lecture" (French), then press [OK].
- 4. Use [▲ / ▼] to select "Language" (English) / "Idioma" (Spanish) / "Langue" (French), then press [OK].
- 5. Use [▲ / ▼] to select your desired language, then press [OK].
- 6. If the items that were set are displayed in your desired language, then press [HOME] to exit.

6. INFORMATION ON PLAYBACK

6.1. Information on Playback

■ Playable Discs and Files

Blu-ray Disc™ - BD-video - BD-RE* (ver. 2.1) (Recorded in BDMV format) - BD-R* (ver. 1.1 / 1.2 / 1.3) (Recorded in BDMV format) (Unfinalized disc may not be played back.) DVD-video DVD-RW (finalized video mode discs only) DVD-R (finalized video mode discs only) CD-DA (audio CD) CD-RW CD-RW	Playable discs	Logos
DVD-RW (finalized video mode discs only) DVD-R (finalized video mode discs only) CD-DA (audio CD) CD-RW	Blu-ray Disc™ - BD-video - BD-RE* (ver. 2.1) (Recorded in BDMV format) - BD-R* (ver. 1.1 / 1.2 / 1.3) (Recorded in BDMV format)	Blu-ray Disc
(finalized video mode discs only) DVD-R (finalized video mode discs only) CD-DA (audio CD) CD-RW	DVD-video	VIDEO
(finalized video mode discs only) CD-DA (audio CD) CD-RW CD-RW CD-RW CD-RW CD-RW CD-RW COMPACT COMPACT		DVD RW
CD-RW CD-RW CD-RW CD-RW CD-R COMPACT COMPA		R
CD-RW CD-R	CD-DA (audio CD)	COMPACT CILISA DIGITAL AUDIO
CD-R GEOGRAPH	CD-RW	OISC OISC
DTS-CD -	CD-R	COMPACT COMPAC
	DTS-CD	-

(*) Due to the intentional progression of the Blu-ray Disc[™] format by its standard setting authority, the company cannot guarantee or warrant the playability of future extensions of the Blu-ray Disc[™] format with this product.

Playable files	Media
AVCHD	DVD-RW/-R
	SD Memory Card using USB card reader / USB hub (not included)
JPEG	BD-RE/-R
	DVD-RW/-R
	CD-RW/-R
	USB Memory Stick

Readable device	Playable files / data
USB Memory Stick	JPEG, picture-in-picture commentary, Subtitles or other extras for some BD-ROM.

⊜ Note

• This unit may not be able to play back discs recorded on PC's or other recorders.

■ Recommended Specifications

AVCHD

This unit cannot play back stand-alone AVCHD files (*.m2ts, *.mts or *.m2t) written to a DVD or copied to an SD Memory Card. The DVD or SD Memory Card containing AVCHD files must have a proper file and folder structure meeting AVCHD format specifications. Please use AVCHD compliant device / software to burn or copy AVCHD files to DVD or SD Memory Card. (Please refer to user manuals of your device / software for more information.)

JPEG

Resolution

• Upper limit: 4,096 x 4,096 dots (sub sampling is 4:4:4)

5,120 x 5,120 dots (sub sampling is up to 4:2:2 or 4:2:0)

Lower limit: 32 x 32 dots

· Maximum file size of a picture: 12MB

■ Folder / File Number Limitations

Blu-ray Disc™, DVD and USB Memory Stick

999 folders (groups) and 9,999 files

CD

· 255 folders (groups) and 999 Tracks / Files

Caution / Note for USB Memory Stick

Caution

- · Do not try to open or modify the USB Memory Stick.
- Do not touch the terminal surface with your fingers or any metals.

⊜ Note

- This unit supports USB Memory Stick with FAT16 / FAT32 file system.
- · This unit does not support NTFS file system.
- This unit may not read USB Memory Sticks formatted on a computer. If that is the case, please reformat the
 USB Memory Sticks on this unit and try again. Please not that all files stored on the USB Memory Stick will
 be erased upon format.
- Please keep the USB Memory Sticks in their cases when you are not using them.
- · Some USB Memory Sticks may not work with this unit.
- This unit can read SD Memory Cards using a USB card reader (not included).
 - Readable cards: SD Memory Card (8 MB 2 GB)

miniSD Memory Card (16 MB - 2 GB) microSD Memory Card (256 MB - 2 GB) SDHC Memory Card (4 GB - 32 GB) miniSDHC Memory Card (4 GB - 8 GB) microSDHC Memory Card (4 GB - 16 GB)

- Readable files: AVCHD / JPEG
- Depending on a USB card reader or USB hub, connected card or device may not be recognized.

■ Unplayable Media and Files

The following discs will not be played back on this unit.

- CD-ROM
- DVD-RAM
- DVD-audio
- HD DVD
- SDXC Memory Card
- unfinalized disc
- BD-RE (ver. 2.1) (Recorded in BDAV format)
- BDXL™
- Blu-ray Disc™ / DVD / CD / USB Memory Stick / SD Memory Card containing DivX® files
- Blu-ray Disc™ / USB Memory Stick that contains AVCHD files
- Blu-ray Disc[™] / DVD hybrid disc (played back as a BD-video only)
- DVD-RW/-R recorded in non compatible recording format
- Super Audio CD Only the sound on the CD layer can be heard. The sound on the high-density Super Audio CD layer cannot be heard.

CD-I (compact disc-interactive)

VSD (video single disc)

microSDXC Memory Card

BD-R (ver. 1.1 / 1.2 / 1.3) (Recorded in BDAV format)

BD-RE (ver. 1.0)

video CD

SVCD

- Playability of dual discs is not guaranteed.
- This unit cannot play back the disc contents protected by Windows Media[™] Digital Rights Management (DRM).

■ Region Codes

This unit has been designed to play back BD-video with region "A" and DVD-video with region "1" or "ALL". You cannot play back BD-video or DVD-video that is labeled for other regions.

Look for the symbols on your BD-video or DVD-video. If these region symbols do not appear on your BD-video or DVD-video, you cannot play back the disc on this unit. The letter or number inside the globe refers to region of the world. BD-video or DVD-video discs labeled for a specific region can only be played back on players with the same region code.

BD-video



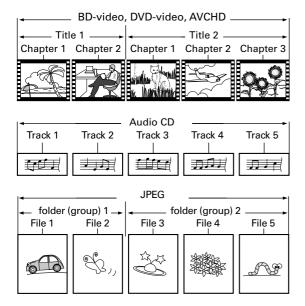
DVD-video





■ Hint for Disc Playback

The contents of a disc are generally divided into sections or folders (group of titles / files) as shown below.



■ Description for Icons

[]: group (folder) icon

[Music]: music file icon

[hoto file icon

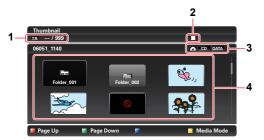
- "Folders" refers to the group of files.
- "Track" refers to the contents recorded on the audio CD.
- "Files" refers to the contents on a disc which are recorded in AVCHD or JPEG file format.

⊜ Note

• Unrecognizable characters will be replaced with asterisks.

6.2. Guide to File List

■ Picture File List



- 1. Current File number / Total number of Files
- 2. Playback status symbol

- 3. Media type
- 4. Group (folder) / File list (thumbnails)

■ How to Navigate through the File List

- For picture file list, use [▲ / ▼ / ◀ / ▶] to move the highlight up, down, left and right. Press [RETURN] to go back to the previous hierarchy.
- To access the files in a Group (folder), select the desired Group (folder), then press [OK].
- Press [RED] or [GREEN] to change the page list up or down.
- Press [YELLOW] to go back to the file type ("Photo" / "AVCHD") selection screen.
- Press [HOME] to Exit.

6.3. How to Insert a Disc

- Press [▲(OPEN/CLOSE)] to Open the disc tray.
- 2. Place the Disc on the disc tray with its label side facing up.
- 3. Press [▲(OPEN/CLOSE)] to Close the disc tray.
 - It may take a while to load the disc.



7 **BASIC PLAYBACK**

7.1. Playing Back a Disc



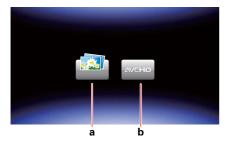








- 1. Insert a disc (refer to "How to Insert a Disc" on page 19).
 - For Blu-ray Disc™ / DVD / audio CD or a disc containing only one type of file, playback will start automatically. If not, press [►(PLAY)] (or [►II(PLAY/PAUSE)] on the unit).
 - Some discs may show a Title or a Disc Menu. In this case, refer to "Using the Title / Disc / Pop Menu" on page 22.
- 2. Select the type of the file you want to play back, then press [OK].



- a. For "Photo", thumbnail screen will appear.
 - Refer to "Picture File List" on page 19 and "How to Navigate through the File List" on page 19.
- b. For "AVCHD", playback will start automatically.

To Skip to the next Title / Chapter / Track / File: Press [►► (SKIP)]. To Skip to the previous Title / Chapter / Track / File: Press [I◀◀ (SKIP)].

To Pause playback: Press [II(PAUSE)] (or [►II(PLAY/PAUSE)] on the unit). Press [►(PLAY)] (or [►II(PLAY/PAUSE)] on the unit). To Return to Normal playback:

Press [■ (STOP)]. To Stop playback:

Playback will be in Resume-On-Stop mode. To clear the resume information, press [■(STOP)] again.

■ Resume-On-Stop Mode

Blu-ray Disc™ / DVD / AVCHD

When you press [►(PLAY)] (or [►II(PLAY/PAUSE)] on the unit) next time, the playback will start from the point where it has been stopped.

Audio CD

Playback will start from the point where it is stopped next time you press [►(PLAY)] (or [►II(PLAY/PAUSE)] on the unit). If you press [OK] instead of [► (PLAY)](or [►II(PLAY/PAUSE)] on the unit), playback will start from the beginning of the Track / File instead of resuming from the stop point.

JPEG

Playback will start from the beginning of the current file next time you press [►(PLAY)] (or [►II(PLAY/PAUSE)] on the unit) or [OK].

Note

- Playback will also Stop and the Home Menu will appear when you press [HOME].
- For BD-Java application, the Resume-On-Stop may not be available.
- If you press [OK] instead of [►(PLAY)] (or [►II(PLAY/PAUSE)] on the unit), playback can be started from the beginning of the disc even if it was in the Resume-On-Stop mode.
- Resume-On-Stop mode remains in effect even after Power is Turned Off, but will be cancelled once the disc is
- With regard to the multi-border BD-RE/-R, additionally recorded sections cannot be recognized.
- With regard to the multi-border DVD-RW/-R, additionally recorded sections may not be recognized.

⊜ Note for JPEG Playback

- Every press of [◀ / ▶] will turn the image by 90 degrees when an image is displayed.
- During playback, press [DISC MENU] to display thumbnail screen.
- Some unplayable folders or files may be listed due to the recording status.
- High-resolution JPEG files take longer to be displayed.
- Progressive JPEG files (JPEG files saved in progressive format) cannot be played back on this unit.

7.2. Playing Back Contents from a USB Memory Stick

JPEG

You can play back JPEG files stored on a USB Memory Stick. With the USB Memory Stick, you can also enjoy the following functions. For a list of supported file formats, refer to page 17.

• Special additional contents for BD-ROM.

(For more information about the special additional contents, refer to the instruction book that came with the disc.)



- 1. Connect a USB Memory Stick.
- 2. Press [HOME].
- 3. Use [◀ / ▶] to select "USB Memory Stick", then press [OK].
- 4. Follow step 2 in "Playing Back a Disc" on page 20.

Caution

- Do not disconnect the USB Memory Stick or switch the unit to Standby mode while a content on the USB Memory Stick is being accessed. It may result in malfunction or loss of the stick's data.
- If you connect a USB Memory Stick or SD Memory Card via a USB card reader or USB hub, BD-ROM data
 will be written onto the first connected card or device. Connecting a USB Memory Stick directly to this unit is
 recommended.
- Occasionally, SD Memory Cards / Micro SD Memory Cards will not be recognized when using certain Adapters. In such cases, try a different USB Adapter.

Note

- When connecting more than two USB Memory Sticks to a USB Hub, this unit may fail to recognize them.
 In such cases, disconnect the USB Hub from the unit then reconnect it, or use less USB Memory Sticks at a time.
- The resume information will be cleared when;
 - [■(STOP)] is pressed while in the Resume-On-Stop mode.
 - the USB Memory Stick is disconnected.
 - the unit is switched to Standby mode.
- Do not delete the folders or files on the USB Memory Stick with your computer. This unit may not read USB Memory Sticks formatted on a computer.
- If a folder or file name includes one of the following unrecognizable characters, the folder or file name may not be displayed correctly.
 - Unrecognizable characters: $[., "=+[];/\:]$
- This unit can read JPEG files and AVCHD on an SD Memory Card by using USB card reader / USB hub (not included).

7.3. Using the Title / Disc / Pop Menu







Some BD-videos, DVD-videos or AVCHD files may contain a Title Menu which describes the contents of the disc, or a Disc Menu which guides you through the available functions on the disc.

• With such discs, a Title Menu or a Disc Menu may appear automatically when you insert the disc. Otherwise, press [DISC MENU] to call up the Menu Select Menu. Use [▲ / ▼] to select "Top Menu" or "Pop Menu/Menu", then press [OK]. Refer to the disc's manual on how to navigate through the menu.

e.g.) Blu-ray Disc™



Note

- Menus vary among discs. Refer to the information accompanying the disc for details.
- [DISC MENU] may not work with some discs.

8. SPECIAL PLAYBACK

8.1. Fast Forward / Fast Reverse



- During playback, press [►► (FORWARD)] repeatedly for Fast Forward.
 During playback, press [◄◄ (REVERSE)] repeatedly for Fast Reverse.
- 2. Press [►(PLAY)] (or [►II(PLAY/PAUSE)] on the unit) to return to Normal playback.

⊜ Note

- For Blu-ray Disc[™], DVD and AVCHD, speed changes at 5 different levels.
- For audio CD, speed changes at 3 different levels.
- For audio CD, Fast Forward / Fast Reverse search between different files are not available.

8.2. Slow Forward Playback



- During playback, press [II(PAUSE)] (or [►II(PLAY/PAUSE)] on the unit). Then press [►► (FORWARD)].
 Every time you press [►► (FORWARD)], the playback speed changes at 3 different levels.
- 2. Press [►(PLAY)] (or [►II(PLAY/PAUSE)] on the unit) to return to Normal playback.

⊜ Note

· Slow Reverse is not available.

8.3. Step by Step Playback



- In pause mode, press [►►I(SKIP)] repeatedly.
 Every time you press [►►I(SKIP)], playback will advance one step at a time.
- 2. Press [► (PLAY)] (or [►II (PLAY/PAUSE)] on the unit) or [II (PAUSE)] to return to Normal playback.

⊜ Note

• Step by step reverse is not available.

8.4. Repeat Playback

Available repeat functions vary depending on the disc.

- 1. During playback, press [REPEAT].
- 2. Use $[\triangle / \nabla]$ to select the desired repeat mode.
 - You can also change the repeat mode by pressing [REPEAT] repeatedly.

REPEAT MODE	AVAILABLE MEDIA
Chapter Repeat	BD OVD AVCHD
The current Chapter will be played back repeatedly.	VIDEO VIDEO AVCHD
Title Repeat	BD OVD AVCHD
The current Title will be played back repeatedly.	VIDEO VIDEO AVCHD
Track Repeat	© CD JPEG
The current Track or File will be played back repeatedly.	JEEG JEEG
All Repeat	(a) CD
All Tracks in the media will be played back repeatedly.	
Group Repeat	JPEG
The current Group (folder) will be played back repeatedly.	SPEG
Random Repeat	(a) CD
Repeats the random playback.	
Random Repeat	JPEG
Repeats the random playback in a folder.	J-EG

3. Press [RETURN] to Exit.

Note

- The repeat setting will be cancelled when you stop playback.
- When the repeat setting is set for an JPEG folder (file), the repeat setting will be cancelled if you select another JPEG folder (file) to play back.
- You can also use the Repeat function from the Play Menu. Play Menu can be called up by pressing [MODE].

8.5. Slide Show

JPEG

- 1. Follow steps 1 and 2 in "Playing Back a Disc" on page 20.
- 2. Open the folder which contains the desired JPEG files.
- Use [▲ / ▼ / ◀ / ▶] to select a desired file to be played back, then press [▶ (PLAY)] (or [►II(PLAY/PAUSE)] on the unit) or [OK].
 - An image will be played back from the selected file and go to the next one in turn every 10 seconds.
- 4. Press [■(STOP)] to Stop playback.
 - When you press [DISC MENU] in the stop mode, the highlight goes back to the first item.
 - When you press [DISC MENU] in the Resume-On-Stop mode, the highlight goes back to the file played last.

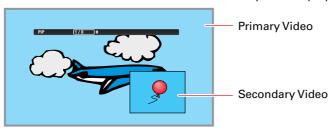
Note

Large-size JPEG files take a few moments to be displayed.

8.6. PiP (BONUSVIEW™) Setting



Some BD-videos have the PiP function which enables you to display the Secondary Video in the Primary Video.



- 1. During playback, press [MODE] to display the Play Menu.
- 2. Use [▲ / ▼] to select "PiP" then press [OK].
 - PiP information will appear.
- 3. Use [▲ / ▼] to select the Secondary Video you want to show.
 - The Secondary Video will be displayed with the Secondary Audio.
 - Use [◀ / ▶] to switch between current setting and "Off".
- 4. Press [RETURN] to Exit.
 - How to select the Secondary Audio output, refer to "Switching Audio Soundtrack" on page 29.

⊜ Note

 Not that the secondary video will be displayed at any time during playback. Depending on the scene, the secondary video may not be available.

8.7. Title / Chapter Search



■ Using [|◄◄(SKIP)] / [▶►|(SKIP)]

During playback, press [►►I(SKIP)] to Skip the current Title or Chapter and move to the next.

The Title or Chapter will move forward one at a time.

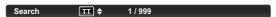
• If there is no Chapter in one Title, the current Title may be Skipped.

To go back to the beginning of the current Title or Chapter, press [◄◄(SKIP)].

Press [◄◄(SKIP)] repeatedly to go to the previous Title or Chapter. The Title or Chapter may move backward one at a time.

■ Using [SEARCH]

- 1. During playback, press [SEARCH] to display the Search Menu.
- Press [SEARCH] or use [▲ / ▼] to select " TT " or " CHP", then press [OK].
 e.g.) Blu-ray Disc™



3. Use $[\triangle / \nabla / \triangleleft / \triangleright]$ to select the Title / Chapter number, then press [OK].

Playback will start from the beginning of the Title / Chapter.

⊜ Note

- As for the BD-video, how it performs will be strongly determined by the disc, and may not perform as
 described.
- For DVD, the Title Search can be performed on the Home menu by pressing [SEARCH] while in the Stop mode or the Resume-On-Stop mode.
- You can also perform the Title / Chapter Search from the Play Menu. Play Menu can be called up by pressing [MODE].

8.8. Track / File Search



■ Using [|◄◄(SKIP)] / [▶►|(SKIP)]

1. During playback, press [▶►|(SKIP)] to Skip the current Track or File and move to the next.

The Track / File will move forward one at a time. To go back to the beginning of the current Track / File, press []◄◄(SKIP)].

Press it repeatedly to go to the previous Track / File. The Track / File will move backward one at a time.

■ Using [SEARCH]

- During playback, press [SEARCH].
 - For JPEG files, skip to step 3.
- 2. Press [SEARCH] or use [▲ / ▼] to select " TR ", then press [OK].
- 3. Use $[\land / \lor / \lor / \lor]$ to select the Track number, then press [OK].

Playback will start from the beginning of the Track.

⊜ Note

 You can also perform the Track / File Search from the Play Menu. Play Menu can be called up by pressing [MODE].

8.9. Time Search



- 1. During playback, press [SEARCH] to display the Search Menu.
- 2. Press [SEARCH] or use [▲ / ▼] to select " (♣ ", then press [OK].

e.g.) Blu-ray Disc™

- 3. Enter the time count you want to jump to.
 - Use [▲ /▼] to enter the first digit of the time counter, then press [▶].
 - When the last digit is entered, press [OK].

Playback will start from the desired time entered.

Note

You can also perform the Time Search from the Play Menu. Play Menu can be called up by pressing [MODE].

8.10. Number Select Search



Some BD-videos and DVD-videos or AVCHD files have button menus to jump to each button displayed scene. During playback the scenes which have the button menu, you can enter the button number by using the Number Select Menu.

1. During playback, press [SEARCH] repeatedly to select the Number Select Menu.

e.g.) Blu-ray Disc™

Number 0000 \$

- For BD-Java, the Number Select Menu of single-digit is displayed.
- For DVD, the Number Select Menu of double-digit is displayed.
- For BD-videos and AVCHD files, the Number Select Menu is displayed even if there is no button menu in the scene.
- 2. Use $[\triangle / \nabla]$ to enter the number you want to jump to.
 - To move the digit that you wish to change, press [◀ / ▶].
- 3. After all digit numbers are entered, press [OK].

Playback of the selected scene will start.

⊜ Note

As for the BD-video, how it performs will be strongly determined by the disc, and may not perform as
described.

8.11. Switching Subtitles

Some video materials may have subtitles in one or more languages. For commercially available discs, the supported languages can be found on the disc case. Follow the steps below to switch the Subtitle language during playback.



- 1. During playback, press [SUBTITLE].
- 2. Use [▲ / ▼] to select "Primary", "Secondary" or "Style", then press [OK].
 - You can also change the setting by pressing [SUBTITLE] repeatedly when the highlight is on "Primary".

"Primary": Sets the Subtitle for the Primary Video. **"Secondary":** Sets the Subtitle for the Secondary Video.

"Style": Sets Style of the Subtitle.

3. Use [▲ / ▼] to select your desired Subtitle or Style.



- Use [◀ / ▶] to switch between current Subtitle setting and "Off".
- 4. Press [RETURN] repeatedly to Exit.



- 1. During playback, press [SUBTITLE].
- 2. Use [▲ / ▼] to select your desired Subtitle.
 - You can also change the setting by pressing [SUBTITLE] repeatedly.



- Use [◄ / ▶] to switch between current Subtitle setting and "Off".
- 3. Press [RETURN] to Exit.

⊜ Note

- Some discs will only allow you to change the subtitles from the Disc Menu or Pop Menu. Press [DISC MENU] to select the "Top Menu" or "Pop Menu" (or "Menu").
- If the disc has no Subtitle language or Subtitle Style, "Not Available" will be displayed on the TV screen.
- During playback of the Secondary Video, the Primary Subtitle setting is not available except when there is no Subtitle for the Secondary Video.
- You can also change the Subtitle setting from the Play Menu. Play Menu can be called up by pressing [MODE].

8.12. Switching Audio Soundtrack

When playing back video material recorded with two or more soundtracks (these are often in different audio languages or audio formats), you can switch them during playback. For Blu-ray Disc™, available audio varies depending on "BD Audio Mode" setting. Refer to page 32.



- 1. During playback, press [AUDIO].
- 2. Use [▲ / ▼] to select "Primary" or "Secondary", then press [OK].
 - You can also change the setting by pressing [AUDIO] repeatedly when the highlight is on "Primary".

"**Primary**": Sets the audio for the Primary Video.

"Secondary": Sets the audio for the Secondary Video.

3. Use [▲ / ▼] to select your desired audio stream channel.



- For "Secondary", use [◀ / ▶] to switch between current audio setting and "Off".
- 4. Press [RETURN] repeatedly to Exit.



- 1. During playback, press [AUDIO].
- 2. Use [▲ / ▼] to select your desired audio stream channel.
 - You can also change the setting by pressing [AUDIO] repeatedly.



For audio CD, you can select following options.

"Stereo": Both right and left channels are active (stereo).

"L-ch": Only left channel is active.

"R-ch": Only right channel is active.

3. Press [RETURN] to Exit.

⊜ Note

- The Secondary Audio will not be output when the Secondary Video is not displayed or when "BD Audio Mode" is set to "Primary Audio Only". (For some Blu-ray discs, Secondary Audio will be output even when Secondary Video is Off.)
- The sound mode cannot be changed during playback of discs not recorded in multiple audio mode.
- Some discs allow changing the audio language setting from Disc Menu. (Operation varies depending on the discs. Refer to the manual accompanying the disc.)
- [AUDIO] may not work on some discs with multiple audio streams or channels (e.g. DVDs that allow changing audio setting on the disc menu).
- If the disc has no audio language, "Not Available" will be displayed on the TV screen.
- For DTS-CD (5.1 music disc), selecting audio streams or channels is not available.
- You can also change the Audio setting from the Play Menu. Play Menu can be called up by pressing [MODE].

8.13. Switching Camera Angles



Some BD-videos and DVD-videos contain scenes which have been shot simultaneously from various angles. You can change the Camera Angle when R appears on the TV screen.

- 1. During playback, press [MODE] to display the Play Menu.
- 2. Use [▲ / ▼] to select "Angle", then press [OK].
- 3. Use $[\triangle / \nabla]$ to select your desired angle.
 - The selected Angle will be displayed on the display bar at the top of the TV screen.
- 4. Press [RETURN] to Exit.

⊜ Note

• If "Angle Icon" setting is set to "Off", will not appear on the TV screen.

8.14. Noise Reduction







Reduces the noise of the playback picture.

- 1. During playback, press [MODE] to display the Play Menu.
- 2. Use [▲ / ▼] to select "Noise Reduction", then press [OK].
- 3. Use [▲ / ▼] to select your desired setting.
 - e.g.) Blu-ray Disc™



- "On": Activates noise reduction.
- "Off": Deactivates noise reduction.
- 4. Press [RETURN] to Exit.

Note

The setting will remain the same even if the unit is switched to Standby mode.

8.15. CLEAR+



CLEAR+ enhances the contrast of the picture and makes edges crisp. It is effective especially for DVD's.

- 1. During playback, press [MODE] to display the Play Menu.
- 2. Use [▲ / ▼] to select "CLEAR+", then press [OK].
- 3. Use [▲ / ▼] to select your desired setting.
 - e.g.) Blu-ray Disc™



- "On": Gives low-definition videos high-definition like picture quality.
- "Off": Shows the original picture as recorded.
- 4. Press [RETURN] to Exit.

Note

- This operation is prohibited during Fast Forward, Fast Reverse, Slow Forward playback and pause mode.
- Pictures may appear whiter depending on the material and the connected TV. In this case, turn "CLEAR+" Off.
- "CLEAR+" is not effective under the following conditions.
 - When the material is in 1080p/24 which is commonly used in Blu-ray discs.

9. LIST OF SETTINGS

In "Settings", you can customize various kinds of settings as you prefer. Refer to the following instructions to navigate through the Setup Menu.

- 1. Press [HOME] to access the Home Menu.
- 2. Use [◀ / ▶] to select "Settings", then press [OK].
- 3. Use [▲ / ▼] to select the desired Category, then press [OK].
- **4.** Use [▲ / ▼] to move up and down the list to select Menus / Options.
- 5. To make a selection or to access options of an item, select the desired item, then press [OK].
 - To go back to the previous screen, press [RETURN].
- 6. Press [HOME] to Exit.

Refer to the following table for the types of settings you can customize. The item highlighted in gray is the default setting.

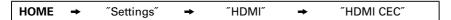
Category		Menus / Options		
Video Out	TV Aspect	4:3 Letter Box		
		4:3 Pan & Scan		
		16:9 Wide		
		16:9 Squeeze		
	Progressive Mode	Auto		
		Video		
Audio Out	Voice Guide	On		
		Off		
	DRC	Auto		
		On		
		Off		
	BD Audio Mode	All		
		Primary/Secondary Audio		
		Primary Audio Only		
HDMI	HDMI CEC	On		
		Off		
	Video Resolution	Auto		
		480p		
	Audio Output	Bitstream		
		LPCM		

Category		Menus / Op	ations				
Playback	Language		Auto				
	Languago		English				
		Español					
		Français					
	Audio	Original					
	Addio	Bulgarian					
		Chinese	Japanese				
		Czech	Korean				
		Danish	Norwegian				
		Dutch	Polish				
		English	Portuguese				
		Finnish	Romanian				
		French	Russian				
		German	Slovak				
		Greek					
			Spanish Swedish				
		Hungarian					
		Icelandic	Turkish				
	0.1434	Irish	Other				
	Subtitle	Off	16.19				
		Bulgarian	Italian				
		Chinese	Japanese				
		Czech	Korean				
		Danish	Norwegian				
		Dutch	Polish				
		English	Portuguese				
		Finnish	Romanian				
		French	Russian				
		German	Slovak				
		Greek	Spanish				
		Hungarian	Swedish				
		Icelandic	Turkish				
		Irish	Other				
	Disc Menu	Bulgarian	Italian				
		Chinese	Japanese				
		Czech	Korean				
		Danish	Norwegian				
		Dutch	Polish				
		English	Portuguese				
		Finnish	Romanian				
		French	Russian				
		German	Slovak				
		Greek	Spanish				
		Hungarian	Swedish				
		Icelandic	Turkish				
		Irish	Other				
	BD Rating Level	Off					
		Age Setting					
	DVD Rating Level	Off					
		8 [Adult]	4 [PG-13]				
		7 [NC-17]	3 [PG]				
		6 [R]	2 [G]				
		5 [PGR]	1 [Kid Safe]				
	Password Change	. [30.0]					
	Angle Icon	On					
		Off					
	1	1 -					

Category		Menus / Options
Others	Software Update	Disc
		USB Memory Stick
	Product Info	
Ini	Initialize	Reset Settings
		Format USB Memory Stick
		(Unit) Erase Saved BD-ROM Data
		(USB Memory Stick) Erase Saved BD-ROM Data
		Reset All Settings
	oss	

10. SETUPS

10.1. HDMI CEC



HDMI CEC allows integrated system control over HDMI and is part of the HDMI standard. This function may not work properly depending on the device connected to the unit. When "HDMI CEC" setting is set to "On" the functions listed below will be available.

■ One Touch Play

When the buttons below are pressed then operations are performed on this unit, the TV will automatically be Turned On and switched to the appropriate video Source Input.

Buttons for one touch play:

- [►II(PLAY/PAUSE)] (on the unit)
- [►(PLAY)], [I◄(SKIP)], [▶►(SKIP)], [HOME] (on the remote control)
- [DISC MENU] (on the remote control when the a disc is inserted in the unit)

■ One Touch Standby

When you press and hold [ϕ (**POWER**)] for 2 seconds, it turns Off the TV first and then Turns Off the power on this unit.

When the connected HDMI CEC compatible display device is Turned Off first, then it Turns Off the power to this unit.

■ System Information

Get & Set Menu Language

The unit recognizes the OSD language set on the TV and automatically sets the same language as the Player Menu Language (OSD menu language) for this unit. "Language" under "Playback" on page 33 for available languages.

• Feature is available only when "Auto" is selected in the Setup Menu "Language" section in "Settings" while connected via an HDMI cable.

10.2. HDMI Video Resolution

HOME → "Settings" → "HDMI" → "Video Resolution"

Set the resolution of the video signal being output from the HDMI OUT jack.

You can select the desired "Video Resolution" among the settings listed below: "Auto","480p".

Actual Output Resolution:

Setting in the				Source			
"Video Resolution"	480i/60	480p/60	720p/60	1080i/60	1080p/60	720p/24	1080p/24
Auto	The highest	The highest resolution supported by your display device will automatically be in effect.					
480p	480p/60						

• For AVCHD, outputting the video in 24 frames per second (1080p/24) is not available.

⊜ Note

- The selected resolution must also be supported by your display device.
- If yourTV and the unit are connected by a DVI cable and if "Auto" is selected, "480p" will be automatically in
 effect.
- Refer also to your TV's manual.
- · When connected to an HDCP incompatible display device, the picture will not be displayed properly.
- The audio signals from the HDMI OUT jack (including the sampling frequency, the number of channels and bit length) may be limited by the connected device.
- Among the display devices that support HDMI, some do not support audio output (for example, projectors).
 While connected to a device such as a projector, audio will not be output from the HDMI OUT jack.
- When this unit's HDMI OUT jack is connected to a DVI-D compatible display device(s) (HDCP compatible) with an HDMI-DVI converter cable, the signals are output in digital RGB.
- HDMI video resolution does not work during the playback of a BD-video.

Copyright protection system

To play back the digital video images of a BD-video or DVD-video via an HDMI connection, it is necessary that both the player and the display device (or an AV receiver / amplifier) support a copyright protection system called HDCP (high-bandwidth digital content protection system). HDCP is copy protection technology that comprises data encryption and authentication of the connected AV device. This unit supports HDCP. Please read the operating instructions of your display device (or an AV receiver / amplifier) for more information.

10.3. Parental

Some BD-videos or DVD-videos feature parental lock levels. Playback will stop if the ratings exceed the levels you set, it will require you to enter a password before the disc will play back. This feature prevents your children from viewing inappropriate material.

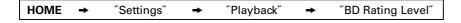
- 1. Enter your 4-digit password.
 - Use [▲ /▼] to enter the first digit of your password, then press [►].
 - When 4-digit numbers are entered, press [OK].

For the first time use:

Enter any 4-digit number (except for 4737). That number will be used as the password. Record your password, in case you forget it.

If you forget the password, enter "4737". The password will be cleared and rating level will be set to "Off".

■ BD Rating Level



- 1. Use [◀ / ▶] to select "Settings" in the Home Menu, then press [OK].
- 2. Use [▲ / ▼] to select "Playback", then press [OK].
- 3. Use [▲ / ▼] to select "BD Rating Level", then press [OK].
- 4. Enter your 4-digit password.
 - Use [▲ /▼] to enter the first digit of your password, then press [►].
 - When 4-digit numbers are entered, press [OK].
- 5. Use [▲ / ▼] to select your desired option, then press [OK].

"Off": To release the limitation.

"Age Setting": To set the age limitation.

After selecting "Age Setting", enter the age.

- Use [▲ /▼] to enter the first digit of the age, then press [►].
- When 3-digit numbers are entered, press [OK].

e.g.)

For age 6, enter "006".

For age 15, enter "015".

6. Press [HOME] to Exit.

■ DVD Rating Level

HOME → "Setting	js″ →	"Playback"	→	"DVD Rating Level"
-----------------	--------------	------------	----------	--------------------

- 1. Use [◀ / ▶] to select "Settings" in the Home Menu, then press [OK].
- 2. Use [▲ / ▼] to select "Playback", then press [OK].
- 3. Use [▲ / ▼] to select "DVD Rating Level", then press [OK].
- 4. Enter your 4-digit password.
 - Use [▲ /▼] to enter the first digit of your password, then press [►].
 - When 4-digit numbers are entered, press [OK].
- 5. Use [▲ / ▼] to select your desired level, then press [OK].
- 6. Press [HOME] to Exit.

	RATING EXPLANATIONS
Off	Parental is inactive; all discs can be played back.
8 [Adult]	DVD software of any grades (adult / general / children) can be played back.
7 [NC-17]	No one under 17.
6 [R]	Restricted; under 17.
5 [PGR]	Parental Guidance Recommended.
4 [PG-13]	Unsuitable for children under 13.
3 [PG]	Parental Guidance suggested.
2 [G]	General Audience.
1 [Kid Safe]	Suitable for children.

■ Password Change

HOME	→	"Settings"	→	"Playback"	→	"Password Change"
------	----------	------------	----------	------------	----------	-------------------

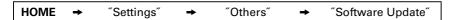
- 1. Use [◀ / ▶] to select "Settings" in the Home Menu, then press [OK].
- 2. Use [▲ / ▼] to select "Playback", then press [OK].
- 3. Use [▲ / ▼] to select "Password Change", then press [OK].
- 4. Enter your 4-digit password.
 - Use [▲ /▼] to enter the first digit of your password, then press [►].
 - When 4-digit numbers are entered, press [OK].
- 5. Enter a new 4-digit password in the same way as the step 4.
- 6. Reenter the same new 4-digit password in the same way as the step 4.
- 7. Press [HOME] to Exit.

To temporarily disable parental lock:

Some discs allow you to temporarily disable parental lock. When you try to play them back, the password entry screen will be displayed.

Follow the instruction which appears on the TV screen to disable parental lock.

10.4. Software Update



This unit lets you update the software yourself using a software update disc, USB Memory Stick. The available discs are below:

- BD-RF/-R
- DVD-RW/-R
- CD-RW/-R

■ Disc / USB Memory Stick Update

You can update the software by using a disc or USB Memory Stick.

Prepare a blank disc or USB Memory Stick for software update:

Access <u>www.sanyo-av.com</u>, and download the latest version software to a blank disc or USB Memory Stick using a PC by following the directions described on the website.

- Use a blank disc or USB Memory Stick, download one software per disc or USB Memory Stick. Write the software in the root directory of the disc or USB Memory Stick.
- For more details on how to download the software, please refer to the website.
- 1. Use [◀ / ▶] to select "Settings" in the Home Menu, then press [OK].
- 2. Use [▲ / ▼] to select "Others", then press [OK].
- 3. Use [▲ / ▼] to select "Software Update", then press [OK].
- 4. Use [▲ / ▼] to select "Disc" or "USB Memory Stick", then press [OK].
- **5.** Use [◀ / ▶] to select "Yes", then press [**OK**].
- 6. Insert the disc or connect the USB Memory Stick for software update.
- 7. After loading disc or USB Memory Stick, confirmation message will appear. Select "Yes" and press [OK].
- 8. The unit will restart automatically, then software update will start.
 - It may take a while to complete the updating.
- 9. After the update finishes, this unit will restart. Remove the disc or the USB Memory Stick from the unit.

Caution

 Please do not unplug the AC power cord, eject the disc or disconnect the USB Memory Stick or press [Φ(POWER)] to turn the unit to Standby mode while performing a "Disc / USB Memory Stick Update".

■ Note

• Software update will not change any of the current settings.

10.5. Voice Guide

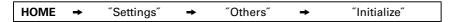
HOME → "Settings" → "Audio Out" → "Voice Guide"

- 1. Use [◀ / ▶] to select "Settings" in the Home Menu, then press [OK].
- 2. Use [▲ / ▼] to select "Audio Out", then press [OK].
- 3. Use $[\blacktriangle/\blacktriangledown]$ to select the "Voice Guide", then press [OK].
- 4. Use [▲ / ▼] to select "On" or "Off", then press [OK].
- 5. Press [HOME] to Exit.

■ Note

- In order to enable the Voice Guide function, the OSD language needs to be set to English or Spanish. Voice Guide is not available in French.
- When Voice Guide is set to On, the HDMI Audio Output setting (Settings → HDMI → Audio Output) is fixed to LPCM. Setting for HDMI Audio Output can be changed only when Voice Guide is set to Off.

10.6. Restore Default Settings



Menus to reset player settings, format a USB Memory Stick.

- Use [◀ / ▶] to select "Settings" in the Home Menu, then press [OK].
- 2. Use [▲ / ▼] to select "Others", then press [OK].
- 3. Use [▲ / ▼] to select "Initialize", then press [OK].
- 4. Use [▲ / ▼] to select the desired setting, then press [OK].

"Reset Settings":

All the settings except for the "Parental" settings will be reset to default.

"Format USB Memory Stick" (Only available when a USB Memory Stick is connected):

Initialize the USB Memory Stick.

"(Unit) Erase Saved BD-ROM Data":

Clears the data saved for the BD-ROM contents, such as BD-ROM game scores, on this player.

"(USB Memory Stick) Erase Saved BD-ROM Data"

(Only available when a USB Memory Stick is connected):

Clears the supplemental data for the BD-ROM playback, such as Subtitle data, from the USB Memory Stick.

"Reset All Settings"

Resets this unit to factory default settings.

- 5. Use [◀ / ▶] to select "Yes", then press [OK].
- 6. Confirmation message will appear. Press [OK] to complete the setting.
- 7. Press [HOME] to Exit.

Caution

Do not remove the USB Memory Stick while executing "Format USB Memory Stick" or "(USB Memory Stick)
Erase Saved BD-ROM Data". It will damage the USB Memory Stick.

♠ Note

 "Format USB Memory Stick" and "(USB Memory Stick) Erase Saved BD-ROM Data" are not available when a Blu-ray Disc™ is in the unit.

11. TROUBLESHOOTING

Problem	Tip
No power.	Check the AC power cord, if it is properly connected.
Two power.	Try another power outlet.
	Unplug the AC power cord, and wait for about 5-10 seconds. Plug it back
	in and attempt to power On the unit.
No sound or picture.	Make sure both the TV and Blu-ray Disc™ player are Turned On.
No sound or picture.	Confirm the connections to the TV are made properly as shown in the
	"CONNECTIONS" on page 11.
	Check to see whether the connected TV or another device supports HDCP. (This unit will not output a video signal unless the other device supports HDCP.)
No reaction to the remote control.	Reduce the distance to infrared sensor window.
	Confirm that the player's AC power cord is plugged into a power outlet.
	Check the batteries in the remote control and make sure they are inserted properly by + or - symbols.
	Aim the remote at the unit's remote receiver. Then press any arrow key and confirm the Power-On indicator dims and blinks when a remote button is pushed. Please check IR signal. Refer to "IR Signal Check" on page 46.
No Audio / Video signal on the display device via HDMI cable.	If the unit is connected to a non-certified HDMI device, the Audio / Video signal will not output to that device.
. ,	Make sure the display device is on the correct Input / Video source.
	Perform the HDMI hotplug: Disconnecting the HDMI cable from the
	display device, Turn On both devices, and replug the HDMI cable back in.
	Check with the TV manufacturer, if there are any software updates available for the TV.
	Check to see if the HDMI cable is a certified version.
No high-definition video signal on	Does the disc contain high-definition video? High-definition video is only
the TV screen.	available when the disc contains it.
	Does the TV support high-definition video? High-definition video is only available when the TV supports it.
Distorted picture.	Sometimes a small amount of picture distortion may appear. This is not a
2 lotto to a protaro.	malfunction.
Completely distorted picture or black / white picture with Blu-ray Disc™ / DVD.	Make sure the disc is compatible with this unit.
No sound or distorted sound.	Adjust the volume.
	Check to see if the speakers are connected correctly.
	Check the HDMI connection.
	Make sure the HDMI cable is not plugged into an HDMI-DVI adapter or
	Projector which does not handle Digital sound.
	Check the settings in "Audio Out" menu.
Picture freezes momentarily during	Check the disc for fingerprints / scratches and clean with a soft cloth
disc playback.	wiping from the center to the outer edge.
Cannot play back a disc.	Make sure that the disc is playable on this unit.
	Check the region code of the disc. This unit supports the following region
	codes.
	- Blu-ray Disc™: "A"
	- DVD: ÄLL″ or ″1″
	For DVD-RW/-R, make sure that the disc is finalized.
	Clean the disc.
	Is the disc a newer title? This problem may be solved by software update.
	Refer to "Software Update" on page 39.

Problem	Tip
No return to start-up screen when	Soft reset this unit by turning it Off for 30 seconds, then On again.
disc is removed.	To completely reset the unit, press and hold [&(POWER)] on the front panel
	for 10 seconds to shut down the unit or unplug the AC power cord from the
	AC outlet for 5-10 seconds.
in the upper right hand corner	The operation is not possible.
of the TV screen.	
Buttons do not work or the unit	To soft reset the unit, press and hold [ϕ (POWER)] on the front panel for
stops responding.	10 seconds to shut down the unit or to hard reset the unit by unplugging
	the AC power cord from the AC outlet for 5-10 seconds.
The unit does not respond to	The operations may be prohibited by the disc. Refer to the instructions
some operating commands during	for the disc.
playback.	
The unit cannot read Blu-ray	Condensation? (Let sit 1 or 2 hours)
Disc™ / DVD/ CD.	Check to see if the disc is compatible with this unit. (Refer to page 16.)
	Wipe dirt off the disc from the center to the outside or replace the disc.
	Refer to "Cleaning Discs" on page 46.
Scene shooting Angle does not switch.	Angles cannot be switched for Blu-ray Disc™ / DVD which do not contain
switch.	multiple Angles. In some cases multiple Angles are only recorded for specific scenes.
Playback does not start when a	Check the settings in "Parental" menu.
Title is selected.	Check the Settings in Tarental menu.
The password for rating level has	Enter the default password "4737", then your forgotten password will be
been forgotten.	cleared. Then to change password go to "Password Change" on page 38.
Error message appears when I	Make sure that the unit is connected to aTV that is compatible with HDMI
select "Auto" in the "Language".	CEC and the "HDMI CEC" is set to "On".
	This error message may appear when your TV's OSD language is not
	supported by this unit.
Cannot play back AVCHD file.	This unit cannot play back stand-alone AVCHD files (*.m2ts, *.mts or
	*.m2t) written to a DVD. The DVD containing AVCHD files must have a
	proper file and folder structure meeting AVCHD format specifications.
	Please use AVCHD compliant device / software to burn or copy AVCHD
	files to DVD. (Please refer to user manuals of the device / software for more information.)
The capacity of the USB Memory	Data may be written on the USB Memory Stick when a BD-video uses the
Stick decreased.	Virtual Package feature while a USB Memory Stick is connected to the
C	unit.
Cannot play back a MPEG-2 video	MPEG-2 is not compatible with this unit.
and audio from the USB Memory	
Stick.	
Cannot read the contents on the	The USB Memory Stick is not compatible with this unit or the contents
USB Memory Stick.	may be damaged.
	Try and Turn Off the unit, then turn it back On.
	To soft reset the unit, press and hold [\circlearrowleft (POWER)] on the front panel for
	10 seconds to shut down the unit or to hard reset the unit by unplugging
0	the AC power cord from the AC outlet for 5-10 seconds.
Cannot play back BD-Video.	Connect a USB Memory Stick (256MB or more of available memory)
	which is formatted on this unit. Some discs require memory when playing back the content.
	Do not disconnect the USB Memory Stick during playback.
Cannot use BD-Live.	BD-Live function cannot be performed because this unit does not
Carmot use DD LIVE.	connect the internet.
Cannot play back 3D.	Some discs may not be played back because this unit does not support
camot play back ob.	3D.
Cannot load a Blu-ray Disc™ (stuck	Unplug unit from AC outlet for 20 seconds. Plug unit back in and press
in "Loading" mode) and cannot	the [▲(OPEN/CLOSE)] on the unit to eject the disc.
Open the disc tray to eject the disc.	

Problem	Tip
The software update screen	Please complete the software update.
appears after Turning On the unit.	When the software update has failed, the software update screen will keep appearing after turning the unit on. If the software update continues
	failing, please try it by using a USB Memory Stick with the update
	software installed in its root directory. In this case, please change the file name as below.
	"E****UH10000FA1.bin" → "UPDATE10000FA1.BIN"
	Do not change the numbers. The file name is case sensitive.
Cannot read a USB Memory Stick.	The format of the USB Memory Stick is not compatible with this unit.
	Please try and format it on this unit (All data will be deleted).
Cannot play back JPEG files from	Make sure that the disc was recorded in the UDF, ISO9660 or JOLIET
a disc.	format.
Cannot find a JPEG file.	Make sure that the selected Group (folder) does not contain more than
	9,999 files for Blu-ray Disc™ / DVD / USB Memory Stick and 999 files for CD.
	Make sure that the file extension is .jpg / .JPG / .jpeg / or .JPEG.
No Audio signal from Surround	Make sure the audio system is turned on.
system of the audio system.	Check the Input mode on the audio system if it is on the correct channel.
	Check if the Surround system is compatible with either Bitstream or LPCM. If not sure please check the user manual or contact the Surround manufacturer. Once confirmed check the setting in the "Settings" of this unit.
	Increase the volume level of the Surround system.

⊜ Note

- Do not attempt to repair the Blu-ray Disc™ Player yourself. This may cause severe injury, irreparable damage to your Blu-ray Disc™ Player and void your warranty.
- Please have available your Blu-ray Disc™ Player model and serial number before contacting us. These numbers are available on the cabinet, as well as on the packaging.

12. LANGUAGE CODE LIST

Language	Code	Language	Code	Language	Code	Language	Code
A-B		French [FRE]	5264	Macedonian	5957	Siswat	6565
Abkhazian	4748	Frisian	5271	Malagasy	5953	Slovak [SLO]	6557
Afar	4747	Galician	5358	Malay	5965	Slovenian	6558
Afrikaans	4752	Georgian	5747	Malayalam	5958	Somali	6561
Albanian	6563	German [GER]	5051	Maltese	5966	Spanish [SPA]	5165
Amharic	4759	Greek [GRE]	5158	Maori	5955	Sundanese	6567
Arabic	4764	Greenlandic	5758	Marathi	5964	Swahili	6569
Armenian	5471	Guarani	5360	Moldavian	5961	Swedish [SWE]	6568
Assamese	4765	Gujarati	5367	Mongolian	5960	T	
Aymara	4771	Hausa	5447	Nauru	6047	Tagalog	6658
Azerbaijani	4772	Hebrew	5451	Nepali	6051	Tajik	6653
Bashkir	4847	Hindi	5455	Norwegian [NOR]	6061	Tamil	6647
Basque	5167	Hungarian [HUN]	5467	O-R		Tatar	6666
Bengali;Bangla	4860	I-K		Occitan	6149	Telugu	6651
Bhutani	5072	Icelandic [ICE]	5565	Oriya	6164	Thai	6654
Bihari	4854	Indonesian	5550	Oromo (Afan)	6159	Tibetan	4861
Bislama	4855	Interlingua	5547	Panjabi	6247	Tigrinya	6655
Breton	4864	Interlingue	5551	Pashto;Pushto	6265	Tonga	6661
Bulgarian [BUL]	4853	Inupiak	5557	Persian	5247	Tsonga	6665
Burmese	5971	Irish [GLE]	5347	Polish [POL]	6258	Turkish [TUR]	6664
Byelorussian	4851	Italian [ITA]	5566	Portuguese [POR]	6266	Turkmen	6657
C-E		Japanese [JPN]	5647	Quechua	6367	Twi	6669
Cambodian	5759	Javanese	5668	Rhaeto-Romance	6459	U-Z	
Catalan	4947	Kannada	5760	Romanian [RUM]	6461	Ukrainian	6757
Chinese [CHI]	7254	Kashmiri	5765	Russian [RUS]	6467	Urdu	6764
Corsican	4961	Kazakh	5757	S		Uzbek	6772
Croatian	5464	Kinyarwanda	6469	Samoan	6559	Vietnamese	6855
Czech [CZE]	4965	Kirghiz	5771	Sangho	6553	Volapuk	6861
Danish [DAN]	5047	Kirundi	6460	Sanskrit	6547	Welsh	4971
Dutch [DUT]	6058	Korean [KOR]	5761	Scots Gaelic	5350	Wolof	6961
English [ENG]	5160	Kurdish	5767	Serbian	6564	Xhosa	7054
Esperanto	5161	L-N		Serbo-Croatian	6554	Yiddish	7155
Estonian	5166	Laothian	5861	Sesotho	6566	Yoruba	7161
F-H		Latin	5847	Setswana	6660	Zulu	7267
Faroese	5261	Latvian;Lettish	5868	Shona	6560		
Fiji	5256	Lingala	5860	Sindhi	6550		
Finnish [FIN]	5255	Lithuanian	5866	Singhalese	6555		

⊜ Note

• If you choose a language that has a 3-letter-language code (written in bracket), the code will be displayed every time you change the Subtitle language setting on page 28 or audio language setting on page 29. If you choose any other languages, "---" will be displayed instead.

13. SPECIFICATIONS

General					
Signal system	NTSC Color				
Power requirements	120 V AC, 60 Hz				
Power consumption	15 W (standby: 0.5 W)				
Dimensions (width x height x depth)	11.1 x 1.7 x 7.9 inches (280.0 x 41.0 x 198.5 mm)				
Weight	2.2 lbs. (1.0 kg)				
Operating temperature	41°F (5°C) to 104°F (40°C)				
Operating humidity	Less than 80 % (no condensation)				

Terminals					
USB input					
TYPE A					
HDMI output	Digital Video: 480p, 720p, 1080i, 1080p, 1080p/24				
HDMI jack x 1	Digital Audio				

⊜ Note

• The specifications and design of this product are subject to change without notice.

14. MAINTENANCE

■ Servicing

- Please refer to relevant topics on "TROUBLESHOOTING" on page 41 before returning the product.
- If this unit becomes inoperative, do not try to correct the problem by yourself. There are no user-serviceable
 parts inside. Eject the disc (if possible), disconnect the USB Memory Stick (if connected to the unit), place
 the unit into Standby mode, unplug the AC power plug, and please contact: 1-866-212-0436 or visit:
 www.sanyo-av.com

■ Cleaning the Cabinet

- Wipe the front panel and other exterior surfaces of the unit with a soft cloth.
- Never use a solvent, thinner, benzene or alcohol to clean the unit. Do not spray insecticide liquid near the
 unit. Such chemicals may discolor the surface or damage the unit.

■ Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center to outside. Do not wipe in a circular motion.
- Do not use solvents such as benzine, thinner, commercially available cleaners, detergent, abrasive cleaning
 agents or antistatic spray intended for analog records.

■ Cleaning the Disc Lens

 If this unit still does not perform properly although you refer to the relevant sections and to "TROUBLESHOOTING" in this user manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit.

■ Disc Handling

- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.
- Always store the disc in its protective case when it is not used.
- Note that discs with special shapes (heart-shaped discs, octagonal discs, etc.) cannot be played back on this unit. Do not attempt to play such discs, as they may damage the unit.

■ IR Signal Check

If the remote control does not work properly, you can test IR signal using a digital camera (including a cellphone with a built-in camera) to see if the remote control sends out the infrared signal.

- 1. Turn On the digital camera.
- 2. Direct a digital camera to the remote control, then press and hold any button on the remote control.
- If infrared light appears on the digital camera display, the remote control is working.



15. TRADEMARK INFORMATION



"Blu-ray Disc™", "Blu-ray" and "Blu-ray Disc™" logo are trademarks of the Blu-ray Disc Association.

BONUS *VIEW* ™

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16. GLOSSARY

AACS

Advanced Access Content System (AACS) is the content protection scheme used with Blu-ray discs.

Analog Audio

An electrical signal that directly represents sound. Compare this to digital audio which can be an electrical signal, but is an indirect representation of sound. See also "Digital Audio".

Aspect Ratio

The width of aTV screen relative to its height. Conventional TVs are 4:3 (in other words, the TV screen is almost square); widescreen models are 16:9 (the TV screen is almost twice as wide as its height).

AVCHD

AVCHD is a new format for high definition video camcorders which can record and play high-resolution HD images.

Blu-ray Disc™

Blu-ray Disc™ is a next generation optical video disc which is capable of storing much more data than a conventional DVD. The large capacity makes it possible to benefit from the features such as high-definition videos, multi-channel surround sounds, interactive menus and so on.

Chapter

Just as a book is split up into several chapters, a Title on a BD-video or DVD-video is usually divided into chapters. See also "Title".

Cinavia™

Cinavia Notice

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

More information about Cinavia technology is provided at the Cinavia Online Consumer Information Center at

http://www.cinavia.com

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

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Digital Audio

An indirect representation of sound by numbers. During recording, the sound is measured at discrete intervals (44,100 times a second for CD audio) by an analog-to-digital converter, generating a stream of numbers. On playback, a digital-to-analog converter generates an analog signal based on these numbers. See also "Sampling Frequency" and "Analog Audio".

Dolby Digital

The system to compress digital sound developed by Dolby Laboratories. It offers you sound of stereo (2ch) or multi-channel audio.

Dolby Digital Plus

Dolby Digital Plus is the next generation digital audio compression technology developed as an extension to Dolby Digital. Blu-ray Disc™ supports 7.1 multichannel surround sound output.

Dolby TrueHD

Dolby TrueHD is a lossless coding technology developed for next generation optical discs. Blu-ray Disc™ supports 7.1 multi-channel surround sound output.

DTS® (Digital Theater System)

DTS® is a multi channel surround sound system. You can enjoy movie dynamic and realistic sound like movie theater. DTS surround sound technologies were developed by DTS, Inc.

DTS-HD®

DTS-HD® is a multi-channel technology developed as an extension of the original DTS Coherent Acoustics format. Blu-ray Disc™ supports 7.1 multi-channel surround sound output.

HDMI (High-Definition Multimedia Interface)

A digital interface between an audio and video Source. It can transmit component video, audio, and control signal with one cable connection.

JPEG (Joint Photographic Experts Group)

JPEG is a method of compressing still picture files. You can copy JPEG files on BD-RE/-R, DVD-RW/-R, CD-RW/-R, or USB Memory Stick from a computer and play back the files on this unit.

Local Storage

A storage area of sub contents for playing virtual packages on BD-video.

PCM (Pulse Code Modulation)

The most common system of encoding digital audio, found on CD and DAT. Excellent quality, but requires a lot of data compared to formats such as Dolby Digital and MPEG audio. For compatibility with digital audio recorders (CD, MD and DAT) and AV amplifiers with digital Inputs, this unit can convert Dolby Digital, DTS, and MPEG audio to PCM. See also "Digital Audio".

Region Code

Regions associate discs and players with particular areas of the world. This unit will only play back discs that have compatible region codes. You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).

Sampling Frequency

The rate which sound is measured by a specified interval to turn into digital audio data. The numbers of sampling in one second defines as sampling frequency. The higher the rate, the better the sound quality.

Title

A collection of chapters on BD-video or DVD-video. See also "Chapter".

Track

Audio CD uses Tracks to divide up the content of a disc. The BD-video or DVD-video equivalent is called a Chapter.

See also "Chapter".

x.v.Color

"x.v.Color" is a promotion name given to the products that have the capability to realize a wide color space based on the xvYCC specifications and is a trademark of Sony Corporation.

LIMITED WARRANTY NINETY (90) DAY LABOR / ONE (1) YEAR PARTS

WARRANTY COVERAGE:

This warranty obligation is limited to the terms as set forth below.

WHO IS COVERED:

This product warranty is issued to the original purchaser or the person receiving the product as a gift against defects in materials and workmanship as based on the date of original purchase ("Warranty Period") from an Authorized Dealer. The original sales receipt showing the product name and the purchase date from an authorized retailer is considered such proof.

WHAT IS COVERED:

This warranty covers new products if a defect in material or workmanship occurs and a valid claim is received within the Warranty Period. At its option, the company will either (1) repair the product at no charge, using new or refurbished replacement parts, or (2) exchange the product with a product that is new or which has been manufactured from new, or serviceable used parts and is at least functionally equivalent or most comparable to the original product in current inventory, or (3) refund the original purchase price of the product.

Replacement products or parts provided under this warranty are covered against defects in materials and workmanship from the date of the replacement or repair for ninety (90) days or for the remaining portion of the original product's warranty, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes company property. When a refund is given, your product becomes company property.

Note: Any product sold and identified as refurbished or renewed carries a ninety (90) day limited warranty.

Replacement product can only be sent if all warranty requirements are met. Failure to follow all requirements can result in delay.

WHAT IS NOT COVERED - EXCLUSIONS AND LIMITATIONS: This Limited Warranty applies only to new company manufactured products that can be identified by the trademark, trade name, or logo affixed to it. This Limited Warranty does not apply to any hardware product or any software, even if packaged or sold with the product, as manufacturers, suppliers, or publishers may provide a separate warranty for their own products packaged with the bundled product.

The company is not liable for any damage to or loss of any programs, data, or other information stored on any media contained within the product, or other additional product or part not covered by this warranty. Recovery or reinstallation of programs, data or other information is not covered under this Limited Warranty.

This warranty does not apply (a) to damage caused by accident, abuse, misuse, neglect, misapplication, or non-supplied product, (b) to damage caused by service performed by anyone other than company approved Authorized Service Location, (c) to a product

or a part that has been modified without written company permission, or (d) if any serial number has been removed or defaced, or (e) product, accessories or consumables sold "AS IS" without warranty of any kind by including refurbished product sold "AS IS" by some retailers.

This Limited Warranty does not cover:

- Shipping charges to return defective product.
- Labor charges for installation or setup of the product, adjustment
 of customer controls on the product, and installation or repair of
 antenna/signal source systems outside of the product.
- Product repair and/or part replacement because of improper installation or maintenance, connections to improper voltage supply, power line surge, lightning damage, retained images or screen markings resulting from viewing fixed stationary content for extended periods, product cosmetic appearance items due to normal wear and tear, unauthorized repair or other cause not within the control of the company.
- Damage or claims for products not being available for use, or for lost data or lost software.
- Damage from mishandled shipments or transit accidents when returning product.
- A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- A product used for commercial or institutional purposes (including but not limited to rental purposes).
- Product lost in shipment and no signature verification receipt can be provided.
- Failure to operate per Owner's Manual.

TO OBTAIN ASSISTANCE...

Contact the Customer Care Center at:

www.sanyo-av.com

1 866 212 0436

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY FOR THE CONSUMER, WITH THE ISSUING COMPANY NOT LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

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

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

17. ESPAÑOL

17.1. Mando a Distancia



 La unidad también se puede encender pulsando estos botones.

1. Botón (ENCENDIDO)

 Pulse el botón para encender la unidad, o para pasar la unidad al modo de espera. (Para apagar completamente la unidad, debe desconectar el cable de alimentación de CA.)

2. Botón DISC MENU

 Durante la reproducción (Blu-ray Disc™ o DVD), púlselo seleccionar el menú (menú superior o menú emergente/menú).

3. Botones de **▲** / ▼ / **◄** / ▶

Púlselos para seleccionar elementos o configuraciones.

4. Botón SEARCH

 Púlselo para mostrar el menú de selección de número o el menú de buscar.

5. Botón ◀◀ (REVERSO)

 Durante la reproducción, púlselo para invertir rápido la reproducción.

6. Botón ► (REPRODUCIR)*

• Púlselo para iniciar o reanudar la reproducción.

7. Botón (SALTAR)

- Durante la reproducción, púlselo una vez para volver al comienzo del título, capítulo, pista o archivo actual.
- Durante la reproducción, pulse dos veces sobre la tecla para volver al título, capítulo, pista o archivo anterior.
- Durante la reproducción de archivos JPEG, púlselo para volver al archivo anterior.

8. Botón **■** (DETENER)

• Púlselo para detener la reproducción.

9. Botón DISPLAY

 Púlselo para visualizar el menú desplegable en pantalla.

10. Botón REPEAT

• Presione para seleccionar el modo de repetición.

11. Botones de ROJO / VERDE / AZUL / AMARILLO

 Púlselos para activar las teclas de atajo en algunas funciones de BD-vídeo. Cuando se despliega la lista de archivos, presione para cambiar las páginas.

Púlselo para cerrar o abrir la bandeja para discos

13. Botón HOME

• Púlselo para mostrar el menú de inicio.

14. Botón MODE

 Durante la reproducción, púlselo para visualizar el menú de reproducción.

15. Botón OK

 Púlselo para confirmar o seleccionar elementos de menú.

16. Botón RETURN

 Púlselo para volver a la pantalla de funciones o menú mostrado anteriormente.

17. Botón ▶▶ (ADELANTAR)

- Durante la reproducción, púlselo para avanzar rápido la reproducción.
- Cuando la reproducción esté en pausa, púlselo para avanzar lentamente la reproducción.

18. Botón ▶►I (SALTAR)

- Durante la reproducción, púlselo para saltar al siguiente capítulo, pista o archivo.
- Cuando la reproducción esté en modo de pausa, púlselo para avanzar la reproducción imagen a imagen.

19. Botón II (PAUSAR)

• Púlselo para pausar la reproducción.

20. Botón AUDIO

 Púlselo para seleccionar el canal de sonido (como idiomas de sonido) de un disco.

21. Botón SUBTITLE

Púlselo para seleccionar los subtítulos de un disco.

Nota

- El indicador Encendido en el panel frontal se atenúa y parpadea cuando se recibe la señal IR del control remoto.
- Use el control remoto suministrado. No se garantiza la operación de control remoto en cualquier otro control remoto, tal como un control remoto universal.

17.2. Encontrar el Canal de Video en su Televisor

Revise los siguientes pasos despues de haber completado todas las conexiones a suTV.

- 1. Presione [& (ENCENDIDO)] para Encender la unidad.
- 2. Encienda su televisor.
- 3. Busque el boton Source / Input / AUX / Video en el control remoto del televisor. El boton puede variar en funcion de la marca y el modelo del televisor. Una vez localizado el boton presione hasta ver "Please Wait..." en la pantalla.



Esta es la visualización correcta de la entrada de la fuente de video.

• Si la TV está conectada por medio de un cable HDMI, puede tomar algunos minutos para que aparezca la imagen de abertura.

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17.3. Instalacion Inicial

Por favor, siga las instrucciones que se exponen a continuacion para completar la configuracion inicial.

Aparece la pantalla de configuracion del idioma. Utilice [▲ / ▼] para seleccionar su idioma y pulse luego [OK].



Aparecerá la pantalla de configuración de Guía por Voz. Use [▲ / ▼] para seleccionar "On" u "Off", y
después presione [OK].



Esta pantalla no aparecerá cuando se seleccione "Français" en el ajuste de "Idioma".

■ Cómo restablecer el Idioma OSD

Puede restablecer el idioma OSD si seleccionó el ajuste de idioma equivocado.

- 1. Presione [HOME] para desplegar el Menú de Inicio.
- 2. Utilice [◀ / ▶] para seleccionar " , despés presione [OK].
 - Esta partida es "Settings" (inglés) / "Configuraciones" (español) / "Paramètres" (francés).
 - A partir de aquí, por favor seleccione una de las siguientes partidas que puede encontrar en la pantalla:
- Utilice [▲ / ▼] para seleccionar "Playback" (inglés) / "Reproducción" (español) / "Lecture" (francés), y después presione [OK].
- Utilice [▲ / ▼] para seleccionar "Language" (inglés) / "Idioma" (español) / "Langue" (francés), y después presione [OK].
- 5. Utilice [▲ / ▼] para seleccionar el idioma que desee, después presione [OK].
- 6. Si las partidas de ajuste se despliegan en el idioma que seleccionó, presione [HOME] para salir.

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GARANTÍA LIMITADA NOVENTA (90) DÍAS EN MANO DE OBRA / UNA (1) AÑO EN PARTES

COBERTURA DE GARANTÍA:

La obligación de ésta garantía se limita a los términos establecidos a continuación.

QUIÉNES ESTÁN CUBIERTOS:

La compañía le garantiza el producto al comprador original o a la persona que lo recibe como regalo contra defectos en los materiales y en la mano de obra, a partir de la fecha de la compra original ("período de garantía") en el distribuidor autorizado. El recibo de ventas, donde aparecen el nombre del producto y la fecha de la compra en un distribuidor autorizado, se considerará comprobante de esta fecha.

LO QUE ESTÁ CUBIERTO:

Esta garantía cubre productos nuevos si se produce algún defecto en el material o la mano de obra y la compañía recibe un reclamo válido dentro del período de garantía. A su propia discreción, ésta (1) reparará el producto sin costo, usando piezas de repuesto nuevas o reacondicionadas; (2) intercambiar el producto con uno nuevo o que se haya fabricado a partir de partes nuevas o usadas a las que se pueda dar servicio y con por lo menos la funcionalidad equivalente o más comparable con el producto original en el inventario actual, o (3) reembolsar el precio de compra original del producto.

La compañía garantiza productos o piezas de repuesto proporcionados bajo esta garantía contra defectos en los materiales y en la mano de obra durante noventa (90) días o por el resto de la garantía del producto original, lo que le proporcione más cobertura. Cuando se cambia un producto o una pieza, el artículo que usted recibe pasa a ser de su propiedad y el que le entrega a la compañía pasa a ser propiedad de ésta última. Cuando se proporcione un reembolso, su producto pasa a ser propiedad de la compañía.

Nota: Cualquier producto que se venda y que esté identificado como reacondicionado o renovado tiene una garantía limitada de noventa (90) días.

El producto de reemplazo sólo se puede enviar si se cumplen todos los requisitos de la garantía. El incumplimiento de tales requisitos puede ocasionar un retardo.

LO QUE NO SE CUBRE: EXCLUSIONES Y LIMITACIONES:
La garantía limitada aplica sólo a los productos nuevos fabricados por o para la compañía que se pueden identificar por la marca registrada, el nombre comercial o por tener el logotipo correspondiente. Esta garantía limitada no se aplica a ningún producto de hardware ni de software que no sea de la compañía, incluso si viene empacado con el producto o si se vende junto con éste. Los fabricantes, proveedores o editores que no sean de la compañía pueden proporcionar una garantía por separado para sus propios productos empacados con el producto.

La compañía no es responsable por ningún daño o pérdida de programas, datos u otra información almacenados en algún medio contenido en el producto, ni por ningún otro producto o pieza que no esté cubierta por esta garantía. La recuperación o la reinstalación de programas, datos u otra información no está cubierta por esta garantía limitada.

Esta garantía no aplica (a) a daños causados por accidente, abuso, mal uso, negligencia, mala aplicación o por productos no provistos por la compañía; (b) a daño provocado por servicio realizado por cualquier persona ó establecimiento de servicio no autorizado por la compañía; (c) a productos o piezas que se hayan modificado sin la autorización por escrito de la compañía; (d) si se ha retirado o desfigurado el número de serie; y tampoco se aplica la garantía a (e) productos, accesorios o insumos vendidos TAL COMO ESTÁN sin garantía de ningún tipo, lo que incluye productos vendidos TAL COMO ESTÁN por algunos distribuidores.

Esta garantía limitada no cubre:

- Cargos de envío para regresar el producto defectuoso.
- Los costos de mano de obra por la instalación o configuración del producto, el ajuste de controles del cliente en el producto y la instalación o reparación de sistemas de antena o fuente de señal externos al producto.
- La reparación del producto o el reemplazo de piezas debido a instalación o mantenimiento inadecuada, a conexiones hechas a un suministro de voltaje inadecuado, sobrevoltaje de la línea de alimentación, daño causado por relámpagos, imágenes retenidas o marcas en la pantalla producto de la visualización de contenido fijo durante períodos prolongados, reparaciones cosméticas debido al desgaste normal, reparaciones no autorizadas u otras causas que no se encuentren bajo el control de la compañía.
- Daños o reclamos por productos que no están disponibles para su uso, por datos perdidos o por pérdida de software.
- Daños debido a mala manipuración en el transporte o accidentes de envío al devolver el producto.
- Un producto que requiera modificación o adaptación para permitir su funcionamiento en algún país que no sea el país para el que se diseñó, fabricó, aprobó y/o autorizó o la reparación de productos dañados por estas modificaciones.
- Un producto que se use para propósitos comerciales o
- institucionales (lo que incluye, entre otros, los de alquiler).
 La pérdida del producto en el envío y cuando no se pueda proporcionar una firma que verifique el recibo.
- No operar según el Manual del propietario.

PARA OBTENER AYUDA...

Comuníquese con el Centro de Atención al Cliente al:

www.sanyo-av.com

1 866 212 0436

LA REPARACIÓN O EL REEMPLAZO, SEGÚN LO DISPONE ESTA GARANTÍA, ES LA SOLUCIÓN EXCLUSIVA PARA EL CLIENTE. LA COMPAÑÍANO SERÁ RESPONSABLE DE LOS DAÑOS INCIDENTALES O INDIRECTOS QUE INFRINJAN ALGUNA GARANTÍA EXPRESA O IMPLÍCITA SOBRE ESTE PRODUCTO. CON EXCEPCIÓN DE LO QUE PROHÍBA LA LEY VIGENTE, TODA GARANTÍA IMPLÍCITA DE COMERCIABILIDAD Y ADECUACIÓN PARA UN PROPÓSITO PARTICULAR EN ESTE PRODUCTO ESTÁ LIMITADA EN DURACIÓN A LO QUE ESPECIFIQUE ESTA GARANTÍA.

Algunos estados no permiten las exclusiones ni la limitación de los daños incidentales o indirectos, ni permiten limitaciones sobre la duración de la garantía implícita, de modo que las limitaciones o exclusiones anteriores pueden no aplicarse a usted.

Esta garantía le otorga derechos legales específicos. Usted puede tener otros derechos que varían entre los diferentes estados y provincias.

FUNAI CORPORATION, Inc. 19900 Van Ness Avenue, Torrance, CA 90501