

marantz®

Super Audio CD / Blu-Ray Disc player UD9004

User Guide



FRANÇAIS

ESPAÑOL

☐ SAFETY PRECAUTIONS





CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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



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

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY 14. Refer all servicing to qualified service personnel. RESULT IN HAZARDOUS RADIATION EXPOSURE.

THIS PRODUCT SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.

☐ Laser Class (IEC 60825-1:2001)

"CLASS 1 LASER PRODUCT"

IMPORTANT SAFETY **INSTRUCTIONS**

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

CAUTION:

- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains,
- . No naked flame sources, such as lighted candles, should be placed on the unit.
- Observe and follow local regulations regarding battery disposal.
- Do not expose the unit to dripping or splashing fluids.
- · Do not place objects filled with liquids, such as vases, on the

ATTENTION:

- La ventilation ne doit pas être gênée en recouvrant les ouvertures de la ventilation avec des objets tels que journaux, rideaux, tissus,
- · Aucune flamme nue, par exemple une bougie, ne doit être placée sur l'appareil
- Veillez à respecter les lois en vigueur lorsque vous jetez les piles usagées.
- L'appareil ne doit pas être exposé à l'eau ou à l'humidité.
- Ne pas poser d'objet contenant du liquide, par exemple un vase, sur l'appareil

PRECAUCIÓN:

- La ventilación no debe guedar obstruida por haberse cubierto las aperturas con obietos como periódicos, manteles, cortinas, etc.
- No debe colocarse sobre el aparato ninguna fuente inflamable sin protección, como velas encendidas.
- · A la hora de deshacerse de las pilas, respete la normativa para el cuidado del medio ambiente
- No exponer el aparato al goteo o salpicaduras cuando se utilice.
- No colocar sobre el aparato objetos llenos de líquido, como iarros

CAUTION:

To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet.

The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user.

PRECAUTION:

Pour déconnecter complètement ce produit du courant secteur, débranchez la prise de la prise murale.

La prise secteur est utilisée pour couper complètement l'alimentation de l'appareil et l'utilisateur doit pouvoir y accéder facilement.

PRECAUCIÓN:

Para desconectar completamente este producto de la alimentación eléctrica, desconecte el enchufe del enchufe de la pared.

El enchufe de la alimentación eléctrica se utiliza para interrumpir por completo el suministro de alimentación eléctrica a la unidad y debe de encontrarse en un lugar al que el usuario tenga fácil acceso.

FCC INFORMATION (For US customers)

1. COMPLIANCE INFORMATION

Product Name: Super Audio CD / Blu-Ray Disk Player Model Number: UD9004

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

2. IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modification not expressly approved by MARANTZ may void your authority, granted by the FCC, to use the

3. NOTE

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for

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

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

☐ Copyrights / Droits d'auteur

- It is prohibited by law to reproduce, broadcast, rent or play discs in public without the consent of the copyright holder.
- La reproduction, la diffusion, la location, le prêt ou la lecture publique de ces disques sont interdits sans le consentement du détenteur des droits d'auteur.

☐ NOTE ON USE / OBSERVATIONS RELATIVES A L'UTILISATION



Avoid high temperatures.

Allow for sufficient heat dispersion when

Tenir compte d'une dispersion de chaleur

suffisante lors de l'installation sur une

Eviter des températures élevées.

installed in a rack.





- Keep the unit free from moisture, water, and dust.
- Protéger l'appareil contre l'humidité, l'eau et la poussière
- Do not let foreign objects into the unit. Ne pas laisser des objets étrangers dans

l'appareil.







- Unplug the power cord when not using the unit for long periods of time.
- Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes.
- Do not let insecticides, benzene, and thinner come in contact with the unit. Ne pas mettre en contact des insecticides,
- du benzène et un diluant avec l'appareil.



Handle the power cord carefully.

cordon.

Hold the plug when unplugging the cord. Manipuler le cordon d'alimentation ave précaution.
Tenir la prise lors du débranchement du



- (For apparatuses with ventilation holes)
- Do not obstruct the ventilation holes Ne pas obstruer les trous d'aération.



- Never disassemble or modify the unit in any way.
- Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre.

ENGLISH

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Features

■ Universal Blu-ray Disc player that plays Super
■ HDMI control ready Audio CD and DVD-Audio formats

page 3, 4 "Playable Media"

- The unit incorporates design concepts of the MARANTZ Super Audio CD Player, and produces higher sound quality from analog audio output by the application of MARANTZ design know-how, such as HDAM-SA2, use of premium parts, etc.
- The decoder handles Dolby TrueHD and DTS-HD Master Audio, of course, as well as Dolby Pro Logic IIx and DTS Neo:6 decoding

Compatible with Linear PCM 192 kHz (one of the BD audio formats) and multi-channel output (6-ch).

page 18 "Connecting to a Device with an Analog Multichannel Audio Input Terminal"

■ 2-channel analog balanced transmission circuit

By combining with the AV8003/MM8003, balanced transmission is enabled from the player's D/A converter up to power amplifier.

page 20 "Connecting to a Device with Analog 2-channel Audio Input Terminal with Balanced Cable"

AV Pure Direct playback eliminates mutual interference of audio and video

Separate audio and video output from two HDMI terminals. Performs clear signal transmission with minimal interference between signals.

page 14 "3" AV Pure Direct" Connection"

■ GUI installed with excellent operability and visibility

page 24 "GUI Menu Operation"

page 49 "HDMI Control Function"

- Newly developed "Mechanism" with low center of gravity, vibration damping, quietness and high
- 3-block construction chassis thoroughly prevents mutual electrical and magnetic interference

Getting Started

Thank you for purchasing this MARANTZ product. To ensure proper operation, please read these owner's manual carefully before using

After reading them, be sure to keep them for future reference.

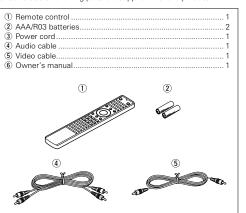
GUI Graphical User Interface

Use this manual in combination with the operating guide displayed on the GUI screen.

GUI Menu Operation (@ page 24)

Accessories

Check that the following parts are supplied with the product.



Cautions on Handling

• Before turning the power switch on

Check once again that all connections are correct and that there are no problems with the connection cables.

· Power is supplied to some of the circuitry even when the unit is set to the standby mode. When traveling or leaving home for long periods of time, be sure to unplug the power cord from the power

· Image persistence (image burn-in)

Do not leave the still images of the disc menu, UD9004 menu, etc., displayed on the TV screen for long periods. This can result in image Do not place the UD9004 on an amp or other piece of equipment that persistence (image burn-in) on the screen.

About Condensation

If the UD9004 unit is moved from a cold place to a warm place, or installed in a room subject to rapid temperature rise from a heater, etc., condensation (dew) may form on the internal parts of the unit (operating parts and lenses).

If used in this condition, the UD9004 will not operate correctly and damage may result. If condensation is formed on the unit, leave the UD9004 unit for1 to 2 hours with the power OFF before use.

· Cautions on using mobile phones

Using a mobile phone near this unit may result in noise. If so, move the mobile phone away from this unit when it is in use.

· Moving the unit

Be sure to remove a disc, turn off the power and unplug the power cord from the power outlet. Next, disconnect the connection cables to other system equipment before moving the unit.

About Care

- Wipe the cabinet and control panel clean with a soft cloth.
- Follow the instructions when using a chemical cleaner.
- · Benzene, paint thinner or other organic solvents as well as insecticide may cause material changes and discoloration if brought into contact with the unit, and should, therefore, not be used.

· Sufficiently ventilate the place of installation

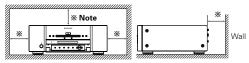
If the unit is left in a room full of the smoke from cigarettes, etc., for long periods of time, the surface of the optical pickup could get dirty, in which case it will not be able to read the signals properly.

• Note that the illustrations in these instructions may differ from the actual unit for explanation purposes.

Cautions on Installation

Note:

For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.



generates heat

Opening and closing the front panel door

When you want to use the controls behind the front panel door, open the door by gently pressing on the lower part of the panel. Keep the door closed when not using these controls.



• Be careful not to pinch your fingers between the door and the panel.

About Media

Playable Media

Discs

Playable Media		Playable formats/ modes	Playable region codes	Symbols Used in this Owner's Manual
BD Video *1,*2	Biu ray Disc		Include region	BD
DVD Audio *1	AUDIO			DVD-A
DVD Video *1,*2	DVD VIDEO		Include region	DVD-V
DVD R, DVD+R	DYD			
DVD RW, DVD+RW	DVD-Rewinsble DVD-R RW AVCHD	Video mode, AVCHD format		DVD
Super Audio CD	SUPER AUDIO CO			SA-CD
CD	DISTAL AUDIO			
CD R	HDCD			CD
CD RW	COMPACT CISC CIGHTAL AUGUS Re/Writable			

- *1: BD-Video/DVD-Audio/DVD-Video discs may not operate as described in this manual due to menu structure.
- *2: The BD player and BD-Video disc, and DVD player and DVD-Video disc each have their region codes (code assigned for each region). Playback is not possible if the codes do not match.

NOTE

- A disc may not be accessible or play back incorrectly due to audio and video interruptions, etc., depending on the recording conditions when recorded with a BD recorder or DVD recorder.
- Unfinalised DVD-R/-RW/+R/+RW, and CD-R/-RW discs may not play back. Finalise discs before playing.

The following discs will not play back on this unit.

BD-RE Ver1.0 (BD disc with cartridge)

- BD-ROM/BD-R/BD-RE discs containing recorded movie, still image, audio, etc., files
- BD-R/BD-RE in which BDMV/BDAV is recorded
- HD DVD
- DVD-RAM
- CDV (Only the audio part can be played)
- CD-G (Only the audio signals can be output)
- Non-standard CD (CD with copy protection, etc.)
- Unauthorised disc (Pirated disc)
- Disc with recording area less than 55 mm in diameter
- Video Single Disc (VSD) / CVD/ Video CD / Super Video CD / CompactDisc-Interactive (CD-I) / Photo CDs

SD Memory Cards

Playable cards	Symbols Used in this Owner's Manual	Playable files (Symbols Used in this Owner's Manual)
SD Memory Card (8 MB ~ 2 GB)		MP3 WMA AAC LPCM
SDHC Memory Card *1 (4 GB)	SD	• Data recorded for BD BONUS
miniSD Card *2 (8 MB ~ 2 GB)	อบ	VIEW use • See "Files" in "Playable Media" (☞ page 4) for more
microSD Card *2 (8 MB ~ 2 GB)		information on files

- *1: This unit supports SD Memory Card with FAT16 file system, and SDHC Memory Card with FAT32 file system.
- *2: For miniSD Card and microSD Card adapter is necessary.





- This unit does not support mini SDHC and micro SDHC Memory
- Insert or remove a SD Memory Card while the power is in standby. If you insert a SD Memory Card while the power is ON, the SD Memory Card may not be read.
- The SD card used for the Bonus View function must have a capacity of 1GB or greater. Also the SD card must be initialized on the UD9004 (12 page 32).

Files

Playable Media				
Playable files (Extension)	DVD-R/ -RW/ +R/+RW CD-R/-RW DVD CD	SD Memory Cards	File specification	Symbols Used in this Owner's Manual
MP3 (mp3)	0	0	Sampling frequency: 44 1 kHz, 48 kHz Bit rate: 64 kbps ~ 320 kbps (144 kbps non compatible) Audio type: MPEG 1 Audio Layer 3	МРЗ
WMA * (wma)	0	0	Sampling frequency: 44 1 kHz, 48 kHz Bit rate: 48 kbps ~ 192 kbps Audio type: WMA Version 9	WMA
AAC * (m4a)	0	0	Sampling frequency: 44 1 kHz, 48 kHz Bit rate: 64 kbps ~ 192 kbps (Variable Bit Rate non compatible) Audio type: AAC	AAC
LPCM (wav)	0	0	Sampling frequency: 44 1 kHz, 48 kHz Bit length: 16 bit Number of channels: 2 ch	LPCM
JPEG (jpg/jpeg)	0	0	Maximum resolution: 4,096 x 4,096 pixels Minimum resolution: 32 x 32 pixels Maximum file size: 12 MB	JPEG
DivX [®] (avi/ divx)	0	0	Compatible versions: Up to DivX® 6 Maximum size: 2 GB	DivX

* : This unit cannot play back files recorded under DRM (Digital Rights Management) other than DivX® files.



- The abovementioned file type may also fail to play back depending on conditions at the time of recording.
- If characters not supported on the menu screen are included in a file name, title, artist name or album title, those are not displayed
- JPEG format images stored in progressive format cannot be played back.

About DivX® Video-on-Demand (VOD)

• When you purchase or rent a DivX[®] file through the official site of DivX[®] Video-On-Demand (VOD) services, a UD9004 registration code is required. For details, see "DivX[®] Registration" ((3) page 31)

• A DivX® VOD file recorded with a different code from the UD9004 registration code cannot be played back.

• Some DivX® VOD files are restricted with limited playable times. If your DivX® VOD file has such a limit, the number of playable times is displayed on the DivX® VOD display screen.

Use ◀, ▶ buttons to select "Yes" if you want to play back the file, or to select "No" if you do not want to play it back. The press **ENTER** button to confirm the selection.



About Discs and Files

☐ BD-Video, DVD-Video

BD/DVD-Video discs are divided into several large sections (titles) and small sections (chapter). These sections are all allotted numbers, called the title numbers and chapter numbers.

[Example]



☐ Super Audio CD [Type of Super Audio CD]

Single layer disc



Single layer Super Audio CD with only an HD layer *.

• Dual layer disc



Super Audio CD with a double HD layer $^{f *}$, offering extended playing time and high sound quality.

• Hybrid disc

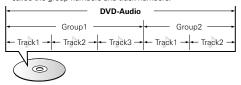


Two-layer Super Audio CD with an HD layer * and a CD layer.
The signals on the CD layer can be played on a regular CD player.

* : All Super Audio CDs contain an HD (High Density) layer with high density Super Audio CD signals. This layer can contain a stereo channel area, a multi-channel area, or both a stereo channel and multi-channel area.

□ DVD-Audio

DVD-Audio discs are divided into several large sections (groups) and small sections (tracks). These sections are all allotted numbers, called the group numbers and track numbers.



□ CD

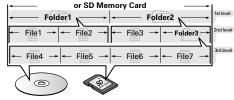
CDs are divided into several sections (tracks). These sections are all allotted numbers, called the track numbers.



☐ File

MP3/WMA/AAC/LPCM/JPEG/DivX[®] files recorded on DVD-R/-RW/+R/+RW, CD-R/-RW and SD Memory Card are divided into large segments (folders) and small segments (files). Files are stored in folders, and folders can be placed for storage in a hierarchy. The UD9004 can recognize up to 8 hierarchies of folder.

DVD-R/-RW/+R/+RW, CD-R/-RW





When writing MP3/WMA/AAC/JPEG/DivX[®] files on a CD-R/-RW disc, set the writing software's format to "ISO9660". The files may not play properly if they are recorded in other formats. For details, refer to the instructions of your writing software.

Cautions on Using Media

Inserting a Disc

- Set the disc with the labeled side facing up.
- Make sure the disc tray is fully open when inserting the disc.
- Place the disc horizontally in the tray, aligned with the tray guide.



If a disc that cannot be played is loaded or the disc is loaded up-sidedown, "NO DISC" is displayed on the player's display.

NOTE

- Only load one disc at a time. Loading two or more discs can damage the unit or scratch the discs.
- Do not use cracked or warped discs or discs that have been repaired with adhesive, etc.
- Do not use discs on which the sticky part of cellophane tape or labels is exposed or on which there are traces of where labels have been removed. Such discs can get caught inside the player and damage it.
- Do not use discs with special shapes, as they could damage the player.





Do not push the disc tray in by hand when the power is turned off.
 Doing so could damage the set.

Inserting an SD Memory Card

• Insert an SD Memory Card in the direction of the arrow into the SD CARD slot with the label facing up.



- Insert the card straight into SD CARD slot until it clicks.
- To remove the card, push it in the direction of insertion, and then release to eject.

About Handling of Media

- . Do not get fingerprints, oil or dirt on discs.
- Take special care not to scratch discs when removing them from their cases.
- · Do not bend or heat discs.
- Do not enlarge the hole at the center.
- Do not write on the labeled (printed) surface with ball-point pens, pencils, etc., or stick new labels on discs.
- Water droplets may form on discs if they are moved suddenly from a cold place (outdoors for example) to a warm place, but do not try to dry them off using a hairdryer, etc.
- Do not eject an SD Memory Card or turn off the UD9004's power while the card content is in playback. This may result in malfunction or loss of the card's data.
- Do not attempt to open or modify SD Memory Cards.
- SD Memory Cards and files can be damaged by static electricity.
 Do not touch the metal contacts of an SD Memory Card with your finners.
- Do not use warped SD Memory Cards.
- After use, be sure to remove any disc or SD Memory Card, and store it in its proper card case, to avoid dust, scratches and deformation.
- Do not store discs in the following places:
- 1.Places exposed to direct sunlight for long periods of time
- 2.Dusty or humid places
- 3. Places exposed to heat from heating appliances, etc.

Cleaning Discs

- If there are fingerprints or dirt on discs, wipe them off before using the disc.
- Use a commercially available disc cleaning set or a soft cloth to clean discs.





Gently wipe the disc from the inside towards the outside.

Do not wipe with a circular motion.

NOTE

Do not use record spray, antistatic agents, or benzene, thinner or other solvents.

About Copyright

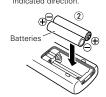
- Unauthorised copying, broadcasting, public performance and lending of discs are prohibited.
- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights.
- Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.
- Portions of this product are protected under copyright law and provided under license by ARIS/SOLANA/4C.

About the Remote Control Unit

Inserting the Batteries

(1) Remove the remote control (2) Set three AAA/R03 batteries in unit's rear cover. the battery compartment in the indicated direction.





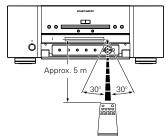
3 Put the rear cover back on.

NOTE

- Use AAA/R03 batteries in this remote control.
- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated close to the unit. (The supplied batteries are only for verifying operation.)
- following the "⊕" and "⊖" marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
 - Do not use a new battery together with an old one.
 - Do not use two different types of batteries.
 - Do not attempt to charge dry batteries.
 - Do not short-circuit, disassemble, heat or dispose of batteries in
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- Remove the batteries from the remote control unit if it will not be in use for long periods.
- Used batteries should be disposed of in accordance with the local regulations regarding battery disposal.

Operating Range of the Remote Control

Point the remote control unit at the remote sensor when operating



NOTE

The set may function improperly or the remote control unit may not • When inserting the batteries, be sure to do so in the proper direction, operate if the remote control sensor is exposed to direct sunlight, strong artificial light from an inverter type fluorescent lamp or infrared

Remote Control Settings (Remote Control Side)

Switches when the UD9004's remote control operates another MARANTZ BD players in the vicinity.

Set the remote control code simultaneously on the main unit, too. For how to set codes, see GUI menu: "Other Setup" - "Remote Control Setting" - "Remote ID" (Pr page 32).

[Remote control code setting]

- The supplied remote control has two remote control code settings: BD 1 and BD 2.
- The code is set to "BD 1" at the factory.
- To set the code to "BD 2", hold the Stop (■) button and the Number button [2] pressed for more than five seconds.
- To set (return) the code to "BD 1", hold the **Stop** (■) button and the Number button [1] pressed for more than five seconds.



• If the signal code of the remote control does not match the signal code of the unit, the remote control code set on the unit is shown

[Example]

If the code setting on the unit is "BD 1", and the setting on the remote control is "BD 2", "BD 1" is shown on the display.

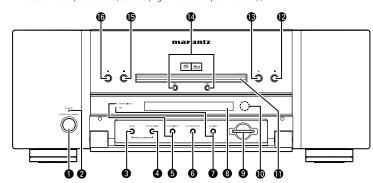
NOTE

Match the signal code of the remote control with the signal code of the unit. If the remote control code is different, you cannot operate the UD9004 with the remote control.

Part Names and Functions

Front Panel

For buttons not explained here, see the page indicated in parentheses ().



Power operation button (POWER ON/STANDBY) (22)

STAND BY indicator (22)

HDMI MODE button (13)

HDMI RESOLUTION button (39)

PURE DIRECT button, indicator (30)

SOUND MODE button (39)

Discount (39)

Discount (30)

Discount (30)

Sound (30)

Soun

the front panel, the indicator lights.

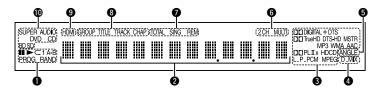
3 Display (8)
 SD CARD slot (6)
 Remote control sensor (7)

(6)
(9 Stop button (■) (43)
(8 Play button (►) (39)
(6 Revers-skip/Forward-skip buttons (I=4, ▶►) (43)
(9 Pause/Still button (II) (43, 45)
(9 Disc tray open/close button (△) (36)

•

When power is in standby mode, press (8) and (6) to turn the power on.

Display



Playback mode indicators

- ➤ : During Playback
- ■: During pause and step-by-step playback
- **PROG**: During program playback **RAND**: During random playback
- C1 A-B: During repeat playback

2 Information display

Displays various information or playback elapsed time and so on of the disc.

Playback format indicators

- Downmix indicator
- Displayed when playing back downmix permitted audio.

6 Angle information indicator

Displayed when a scene on the currently playing disc has been shot at various angles.

6 Audio channel indicators

Displays the number of audio signal channels during playback.

2CH : 2-channel playback
MULTI : Multi-channel playback

Time mode indicators

TOTAL : Total time of Super Audio CD and CD

SING: Elapsed time of title/chapter/track/file being played back

REM: Remaining time of title/chapter/track/file being played back

Group/Title/Track/Chapter indicators

HDMI output indicator

Display when HDMI video or audio signals are being output.



Does not display when the HDMI cable is not correctly connected and when the HDMI connection is not verified.

Media indicators

BD : BD

DVD: DVD-Video, DVD-R/+R/-RW/+RW

DVD AUDIO : DVD-Audio

SUPER AUDIO CD : Super Audio CD

CD : CD

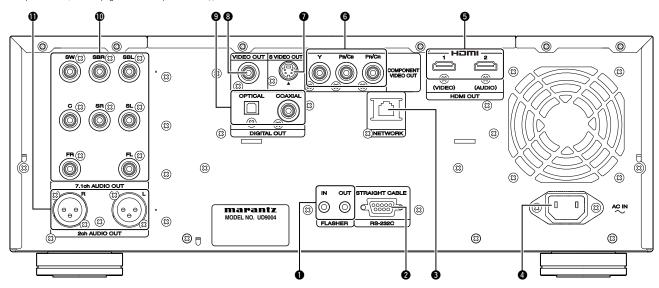
SD : SD Memory Card

Displays the inserted media.

Part Names and Functions

Rear Panel

For buttons not explained here, see the page indicated in parentheses ().



1 FLASHER IN/OUT jacks

Connect an external control device or other device for servicing. (Use a straight cable for the connection.)

2 RS-232C connector

Extension connector for future use.

- NETWORK connector
- AC inlet (AC IN) (22)

6 HDMI OUT connectors

(13, 14) Signals output from each terminal change depending on the HDMI mode setting.

6 COMPONENT VIDEO OUT connectors

- S-VIDEO OUT connector (19) **3** VIDEO OUT connector
- 9 DIGITAL OUT OPTICAL/COAXIAL connectors (17) 10 7.1ch AUDIO OUT connectors (18)
- 1 2ch XLR AUDIO OUT connectors (20)

For software recorded in multi-channel, analog signals that have been down-mixed into 2 channels are output.

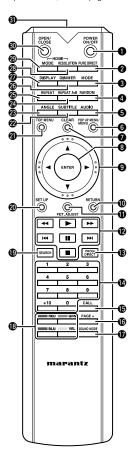
NOTE

(19)

- Do not touch the inner pins of the connectors on the rear panel. Electrostatic discharge may cause permanent damage to the unit.
- Do not put your finger or foreign object in the fan opening. Doing so could cause injury or unit failure.

Remote Control Unit

For buttons not explained here, see the page indicated in parentheses ().



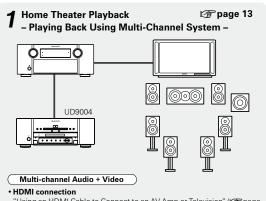
POWER ON/OFF buttons	
2 PURE DIRECT button	
MODE button	
RANDOM button	
AUDIO button	
6 POP UP MENU/MENU button	
CLEAR button	
3 ENTER button	
O Cursor buttons (▲, ▼, ◄, ►)	
RETURN button	
PICT. ADJUST button	
Past-reversing button (◄◄)	
(P) Fast-forwarding button (►►)	
® Revers-skip button (I◄◄)	
(P Forward-skip button (►►I)	
(P) Play button (►)	
Pause/Still button (Ⅱ)	
® Stop button (■)	
(B) PROG/DIRECT button (PROG/DIRECT)	
Mumber buttons (0 ~ 9, +10)	
(5) CALL button	
16 PAGE + button	

(22)	TO SOUND MODE button	(39)
(40)	RED/GRN/YEL/BLU buttons	
(33)	SEARCH button	(39)
(46)	SETUP button	(23)
(47)	10 TOP MENU button	(37)
(37)	SUBTITLE button	(48)
(35)	ANGLE button	(49)
(24)	REPEAT A-B button	(46)
(24)	REPEAT button	(46)
(24)	DIMMER button	(49)
(35)	DISPLAY button	(36)
(45)	HDMI RESOLUTION button	(15)
(45)	HDMI MODE button	(13)
(43)	OPEN/CLOSE button (♠)	(36)
(43)	Remote control signal transmitter	(7)
(39)		
43, 45)	ℰ	
(43)	 When power is in standby, press and (▶) t 	o turn the power
(47)	 You can use when operating the BD popup mer 	nu screen etc
(37)	roa can ase when operating the BD populp men	na sorcon, etc.
(47)		
(40)		

Part Names and Functions

Connections

Connect the UD9004 as follows before using. Make connections according to the equipment you are connecting. Some UD9004 settings may be necessary depending on the connection method. Check each connection item for more information.



"Using an HDMI Cable to Connect to an AV Amp or Television" (12) page

Multi-channel Audio

- Digital audio connection
- "Connection to an AV Amp with No HDMI Audio Input" (12 page 17)

Analog 7.1ch connection

"Connecting to a Device with an Analog Multi-channel Audio Input Terminal" (Ppage 18)



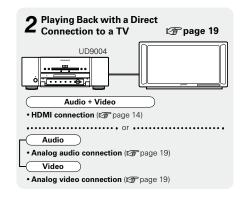
To output sound from a disc while maintaining the same sound quality as the disc sound, some settings of Audio Setup are disabled as default (rappage 25 27).

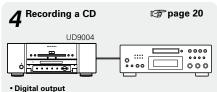
To enable the settings of Audio Setup, set Source Direct to "Off" (Pp page 26).

Video

Analog video connection

"Connection to an AV Amp with No HDMI Video Input" (@page 19)





"Connecting to a Digital Recording Device" (@page

- · Connecting the Power Cord
- Once Connections are Completed

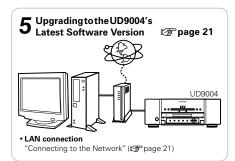
page 22



"Connecting to a Device with Analog 2-channel Audio Input Terminal with Balanced Cable" (@ page 20) or

• 2ch stereo pin plug cable (unbalanced) connection

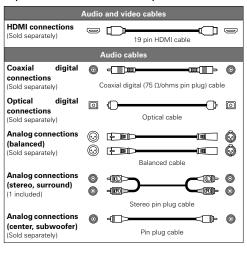
"Connecting to a Device with Analog 2-channel Audio Input Terminal with Stereo Pin Plug Cable" (@Ppage 20)

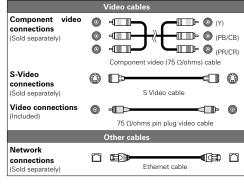


Preparation

Cables Used for Connections

Prepare the cables to match the devices you are to use.





NOTE

- Do not plug the power cord into the power outlet until all connections are completed.
- Be sure to read the owner's manuals for the connected devices.
- First check the connection channels, and then correctly connect the input and output channels.
- Do not bundle the power cord together with the connection cables. This can result in noise.



- Use only HDMI (High Definition Multimedia Interface) cable that bears the HDMI logo (genuine HDMI product). Using cable without the HDMI logo (non-genuine HDMI product) may result in abnormal playback.
- When outputting deep colour or 1080p, etc., we recommend you use High Speed HDMI cable for enhanced high-quality playback.

1. Home Theater Playback - Playing Back Using Multi-channel System -

Using an HDMI Cable to Connect to an AV Amp or Television

- There are 5 ways to connect (① ⑤) using HDMI cable (sold separately). Configure appropriate connection for HDMI mode first and then set HDMI mode using HDMI MODE button.
- When connecting with HDMI cable, perform the settings in "Required Settings for HDMI Connection" (@ page 15).
- UD9004 automatically detects audio/video signal supported by the connected HDMI device and outputs the signal. To change the setting, see "HDMI Setup" on the GUI menu (@page 25, 26).

HDMI	no do	Output signal fro	om each terminal
ADIVII I	node	HDMI OUT 1	HDMI OUT 2
① HDMI Auto (Dual) (HDMI Dual)	Used for multi-channel playback using 2 devices.	Video + Audio	Video + Audio
② HDMI Auto (Independent) (HDMI Inde.)	Used for multi-channel playback using one device and 2-channel playback using the other unit. (*1)	Video + Audio	Video + Audio
③ AV Pure Direct (AV P.Direct)	Used for the highest quality playback using different HDMI cables to connect video and audio separately.	Video	Audio
4 HDMI1	Used for connecting only	Video + Audio	Does not output
⑤ HDMI2	1 device.	Does not output	Video + Audio
6 HDMI Off	Used when HDMI connection is not used.	Does not output	Does not output

*1: If the number of channels supported by 2 devices is the same, multi-channel audio is output to both devices.

NOTE

To disable video or audio output from the HDMI terminal, set "Video Out" of "Pure Direct Setup", which outputs high quality analog audio to "Off". To enable the HDMI signal output, set the Pure Direct mode to one of the following setting:

- Pure Direct mode "Off" or "User Preset 1" or "User Preset 2" (X)
- ("Playing Back High-Quality Audio (Pure Direct Function)" page 40)
- * Do this after setting "Pure Direct Setup" "User Preset 1" or "User Preset 2" "Video Out" on GUI menu to "On" (@ page 30).

Default settings are underlined.

Video and Audio Output Signal when Outputting to 2 HDMI Devices (HDMI Auto (Dual) Mode and HDMI Auto (Independent) Mode)

□ About Video Signal

When "About HDMI Video Resolution Setting" (*** page 15) is set to "Auto", of the resolution supported by both of the 2 connected devices, the UD9004 outputs the highest resolution video signal to both devices.

□ About Audio Signal

- (1) Check audio signals that can be input by the device to be connected.
- Audio format Bit stream (Dolby Digital, DTS etc.), Linear PCM, etc.
- Number of channels

(2) About number of output channels of multi-channel audio

When outputting bitstream signals to two HDMI devices, the signals are output to both HDMI devices if they both support bitstream signals. Of only one device support bit stream, LPCM is output to the device, which does not support bit stream.

When outputting LPCM signals to two HDMI devices, it is not possible to output multi-channel audio signals with different numbers of channels to the two HDMI devices.

When the number of channels of multi-channel audio supported by the connected 2 HDMI devices are different, the audio signal output to each mode becomes as follows:

• HDMI Auto (Dual) :

Outputs multi-channel audio of less number of channels to both devices.

If the supported number of channels is 7.1 channel and 5.1 channel, respectively, 5.1 channel audio is output. If the supported number of channels is multi-channel and 2-channel (or 2.1-channel), multi-channel and 2-channel are output.

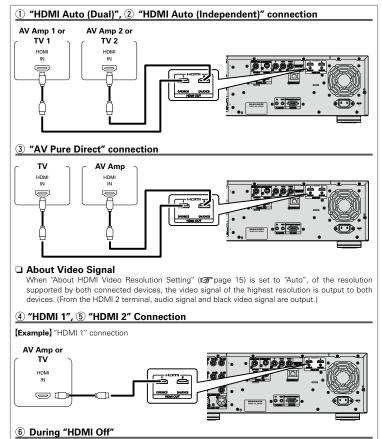
• HDMI Auto (Independent) :

Multi-channel audio is output as is to the device, which supports more number of channels. LPCM audio of 2-channel is output to the other device.

We recommend you use this mode when outputting to both an AV Amp and TV.

□ About Audio Format to be Output

Audio format supported by 2 connected HDMI devices is output. When multi-channel audio is output, the output channel is as described above (2).



1. Home Theater Playback – Playing Back Using Multi-channel System –

☐ Connection to a device with a DVI-D terminal

If you use a HDMI/DVI-D conversion cable (sold separately), HDMI video signals are converted to DVI-D signals, enabling connection to a device with a DVI-D terminal.

NOTE

- In this case, the audio signal is not output. Make the appropriate audio connections for your devices. (27 page 15 21).
- The video signal will be in RGB format.
- You cannot output to a DVI-D device that does not support HDCP (high-bandwidth digital content copyright protection system).
- Video may not be output depending on the combination of devices.

Audio/video is not output from the HDMI terminal.

Required Settings for HDMI Connection

Setting HDMI Video Output

☐ Make HDMI Output Signal and HDMI Control Function Settings "HDMI Setup" (☞ page 25, 26)

☐ Make the Video Output Signal Setting for the Connected Television "Video Setup" (☐ page 26)

☐ About HDMI Video Resolution Setting

 Change the HDMI video resolution by pressing HDMI RESOLUTION button. Switch the output mode as follows. Default settings are underlined.

Auto —	- Bron direct —	— → 480/576i —	→ 480/576P —
(Auto)	(Source Direct)	(480/576 interlaced)	(480/576 progressive)
1080P24 +	1080P -	1080i -	720P ←
(1080 progressive, 24 frame)	(1080 progressive)	(1080 interlaced)	(720 progressive)

- If the HDMI resolution is not set to "Auto", set it to correspond with the resolution of your television.
 Images will not be projected normally if the television resolution and UD9004's output resolution do not match.
- Audio and video will be temporarily interrupted if the power of the connected device currently playing back is turned off, or input is switched.
- When you change the HDMI video resolution of the UD9004, it takes from a few seconds up to about 10 seconds for validation between the UD9004 and the connected device. Audio/video is not output during this period.
- When outputting deep colour or 1080p, etc., we recommend you use High Speed HDMI cable for enhanced high-quality playback.

NOTE

When the HDMI video resolution is set to "1080P24", HDMI video signals are output from the UD9004 with a resolution of 1080P and a frame rate of 24 frames per second, regardless of the video signals on the disc being played. Because of this, when playing discs containing video signals recorded with a frame rate of something other than 24 frames per second, the movement of the picture may be unnatural. If this happens, set the HDMI video resolution to something other than "1080P24".

Setting HDMI Audio Output

• When you press **SET UP** button and set "HDMI Setup" – "Audio Setup" to "Auto" (@ page 25) on the GUI menu, audio mode is set according to the connected device.

1. Home Theater Playback – Playing Back Using Multi-channel System –

- When you want to set the HDMI audio output separately, change according to the following table.
- Refer to the owner's manual of the connected device regarding HDMI audio input specifications compatible with the connected device.

Device to be connected	Setting items	About output signal and speaker settings
Device with the following built-in decoder Dolby TrueHD Dolby Digital Plus Dolby Digital DTS-HD DTS	<u>Auto</u>	UD9004 outputs a bitstream signal that is decoded by the connected device. ** In this case, you cannot make a speaker setting for HDMI audio with the UD9004. Make the setting with the connected device. ** When outputting the Dolby TrueHD or DTS-HD audio, press MODE button and set "BD Audio Mode" to "HD Audio Output" (@ page 33).
Device compatible with multi-channel HDMI audio input, but not capable of speaker setting for each channel	Multi LPCM BM On	Outputs multi-channel Linear PCM audio signals with speaker setting by the UD9004. *For speaker setting, on the GUI menu, "Audio Setup" – "7.1ch Audio Out" – "Multi Channel" – "Speaker Configuration" (**page 27). ** To output sound from a disc while maintaining the same sound quality as the disc sound, some settings of Audio Setup are disabled as default (**page 25 27). To enable the settings of Audio Setup, set Source Direct to "Off" (**page 26). **BM : Bass Management (means multi-channel speaker setting)
Device compatible with multi-channel HDMI audio input, and capable of speaker setting for each channel	Multi LPCM BM Off	Output of multi-channel Linear PCM audio signals from the UD9004. Perform the speaker setting with the connected device. **BM : Bass Management (means multi-channel speaker setting)
Device compatible with 2- channel HDMI audio input	2ch	Downmixed 2-channel Linear PCM audio signals are output from the UD9004. Perform the speaker setting with the connected device.
Device not compatible with HDMI audio signal input	Mute	Audio signal are not output from the UD9004's HDMI terminal. Only video signals are output from the HDMI terminal. * Make the audio connection.

☐ Audio signal from the HDMI output terminal

You can change the audio format and playback number of channels according to the specifications of the device to which the UD9004's HDMI audio output signals are input. Make settings while checking the specifications of the audio device to be connected as well as the audio format/number of channels stored in media and files for playback.

Media/Files	Setting "HDMI Setu		– "Audio Setup" (☞ page 25) on ne GUI menu		
Media/Tites	Addio format	Auto	Multi LPCM BM On/Off	2ch	
	Dolby Digital	Dolby Digital * 1			
	Dolby Digital Plus	Dolby Digital Plus * 1			
BD	Dolby TrueHD	Dolby TrueHD * 1	Multi I PCM	2 ch Downmix	
В	DTS	DTS * 1	IVIUILI LECIVI	LPCM	
	DTS-HD	DTS-HD * 1			
	LPCM	Multi LPCM			
AVCHD	Dolby Digital	Dolby Digital			
AVCHD	LPCM	Multi LPCM	Multi I PCM	2 ch Downmix LPCM	
	Dolby Digital	Dolby Digital	IVIUILI LPCIVI		
DVD-Video	DTS	DTS			
	LPCM, MPEG	2 ch LPCM			
DVD-Audio	LPCM, PPCM	2 ch Downm		2 ch Downmix	
	Multi area	Multi LPCM		LPCM	
Super audio CD * 2	Stereo area	2 ch I PCM			
	CD layer	2 ch LPCIVI			
DivX®	Dolby Digital	Dolby Digital	Multi LPCM	2 ch Downmix LPCM	
	MP3, MP2	2 ch I PCM			
CD, MP3, WMA, AAC, LPCM		Z CII LFCIVI			
DTS-CD		DTS	Multi LPCM	2 ch Downmix LPCM	

- *1: Multi LPCM signals are output when "BD Audio Mode" is set to "Mix Audio Output" (@ page 33). Multi LPCM signals are output when outputting HDMI video signals with resolutions of 480i/576i or
- *2 : Super Audio CD audio signals are output at 44.1 kHz 16-bit.

1. Home Theater Playback – Playing Back Using Multi-channel System –



Even if "HDMI Setup" - "Audio Setup" on the GUI menu is set to "Auto" (1287 page 25), multilinear PCM or downmixed 2-channel linear PCM signals are output if a device that does not support bitstreams is connected.

Copyright protection system

In order to play back digital video and audio such as BD-Video or DVD-Video via HDMI connection, both the player and TV or the AV Amp need to support the copyright protection system known as HDCP (High-bandwidth Digital Content Protection System). HDCP is copyright protection technology comprised of data encryption and authentication of the connected AV device. The UD9004 supports

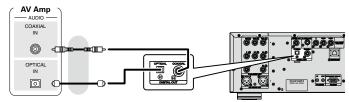
NOTE

- If a device that does not support HDCP is connected, video and audio are not output correctly. Read the owner's manual of your television or AV Amp for more information.
- The audio signal from the HDMI output terminal (sampling frequency, number of channels, etc.) may be limited by the HDMI audio specifications of the connected device regarding permissible inputs. For example, if the HDMI audio specification of the connected device is 5.1 channels, 5.1-channel audio will be automatically output even when playing back 7.1 channels by the UD9004. In this case, analog audio output will also be 5.1-channel.
- · Audio signal input may not be supported depending on the HDMI compatible monitor (projector, etc.) being used.
- When the UD9004 is connected to this kind of device, audio signals are not output from the HDMI terminal.

1. Home Theater Playback – Playing Back Using Multi-channel System –

Connection to an AV Amp with No HDMI Audio Input

When playing back Dolby Digital Plus/Dolby TrueHD/DTS-HD audio recorded on a BD disc, the UD9004 outputs Dolby Digital or DTS bitstream from its digital audio output terminal.



NOTE

• Dolby TrueHD/Dolby Digital Plus/DTS-HD audio signals are not output with

When outputting Dolby TrueHD/Dolby Digital Plus/DTS-HD audio signals, do so with an HDMI connection (@page 13, "Using an HDMI Cable to Connect to an AV Amp or Television").



- Super Audio CD's DSD signal cannot be output. Also, during CD layer playback, 44.1 kHz/16-bit Linear PCM is output.
- Do not output DTS audio signals to an AV Amp that does not support DTS. Playing back a BD/DVD disc with recorded DTS content can generate noise and even damage your speakers.
- When connecting with an optical transmission cable (sold separately), make sure the plug shape aligns with the socket, and insert fully.

Audio Signal from the Digital Audio Output (Optical/Coaxial) Terminal

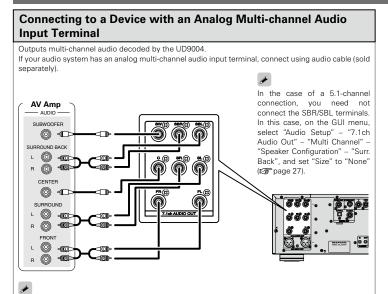
The UD9004 can convert and output digital audio signal format recorded on media. Convert the digital audio signal in accordance with the specifications of the device that is to input digital audio output signals from the UD9004.

Media/Files	Audio format		Pigital Out″ (ເ∕ே page 29) on Il menu	
iviedia/Files	Audio format	Bitstream	PCM/PCM Down Sampling	
	Dolby Digital			
	Dolby Digital Plus	Dolby Digital * 1		
BD	Dolby TrueHD			
BD	DTS	DTC # 4		
	DTS-HD	DTS * 1		
	LPCM	2 ch Downmix LPCM * 1	2 ch Downmix I PCM	
A) (CLID	Dolby Digital	Dolby Digital	2 ch Downmix LPCM	
AVCHD	LPCM	2 ch Downmix LPCM		
	Dolby Digital	Dolby Digital		
DVD-Video	DTS	DTS		
	LPCM, MPEG	0 1 0 1 10014		
DVD-Audio	LPCM, PPCM	2 ch Downmix LPCM		
	Multi area	i		
Super Audio CD	Stereo area	Audio is not output		
	CD layer 2 ch LPCM			
DivX®	Dolby Digital	Dolby Digital	2 ch Downmix LPCM	
DIVA	MP3, MP2			
CD		2 ch LPCM		
MP3, WMA, AAC, LPCM				
DTS-CD		DTS	2 ch Downmix LPCM (DTS * 2)	

- *1: Bitstream signals are output in accordance with the BD re-encode setting when "BD Audio Mode" is set to "Mix Audio Output" (@page 33).
- *2 :When "HDMI Setup" "Audio Setup" is set to "Auto" on the GUI menu and bit stream is output from HDMI , the DTS bit stream is output from the digital audio output (optical/coaxial) as well.



For content with copyright protection, audio signal is down sampled to 48kHz 16bit and is output.



To output sound from a disc while maintaining the same sound quality as the disc sound, some

settings of Audio Setup are disabled as default (@page 25 27).

To enable the settings of Audio Setup, set Source Direct to "Off" (@page 26).

Connection to an AV Amp with No HDMI Video Input

Check the video terminals and make the connection to one of them.

AV Amp

VIDEO IN

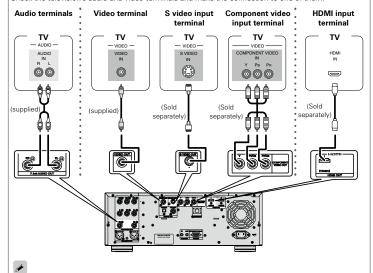
SVIDEO IN

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1. Home Theater Playback – Playing Back Using Multi-channel System –

2. Playing Back with a Direct Connection to a TV

Check the television's audio and video terminals and make the connection to one of them.



When outputting the UD9004's analog 2-channel audio to the television's 2-channel (stereo) audio input terminal, on the GUI menu, select "Audio Setup" – "7.1ch Audio Out", and set it to "2 Channel" (repage 27).

NOTE

Do not connect the UD9004's video output via a VCR (Video Cassette Recorder). Some media contain copy prohibit signals, which will disturb the screen image.

When playing NTSC disc, UD9004's video output becomes NTSC signal format.

When playing PAL disc, UD9004's video output becomes PAL signal format.

☐ When connected to the television's component video input terminal

• The UD9004's component video output supports 480i/576i/480p/576p/720p/1080i output. Match the output to the corresponding resolution of the connected television by setting, on the GUI menu: "Video Setup" – "Component Resolution" ((2) page 26). Images will not be projected normally if the television resolution and UD9004's output resolution do not match. Copyright protected DVD is output in 480i/576i or 480p/576p.

☐ When connected to the HDMI input terminal

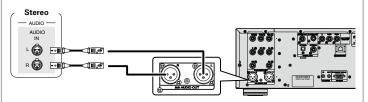
Outputting both digital video and digital audio signals.

See "Required Settings for HDMI Connection" (@page 15) for HDMI video output and audio output settings.

3. Playing Back 2-Channel Audio

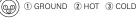
Connecting to a Device with Analog 2-channel Audio Input **Terminal with Balanced Cable**

Select "Audio Setup" - "XLR" (@page 30) from the GUI menu beforehand to match the device to be connected.



NOTE

- Do not short circuit between each terminals. When making connections, check the input terminal layout of the device to be connected with the owner's manual.
- The default UD9004 balance model XLR input connectors pin alignment is as shown.

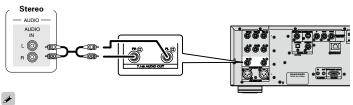




For software recorded in multi-channel, analog signals that have been down-mixed into 2 channels are output.

Connecting to a Device with Analog 2-channel Audio Input **Terminal with Stereo Pin Plug Cable**

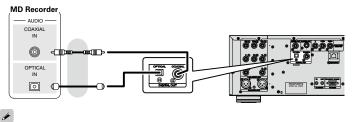
On the GUI menu, select "Audio Setup" - "7.1ch Audio Out", and set it to "2 channel" (12 page 27).



For software recorded in multi-channel, analog signals that have been down-mixed into 2 channels are output.

4. Recording a CD

Connecting to a Digital Recording Device

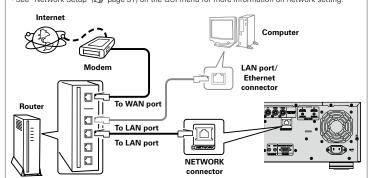


When converting multi-channel audio to 2-channel for output, on the GUI menu, select "Audio Setup" - "Digital Out", and set it to "PCM Down Sampling" (@ page 29). If you play back DVD or other media with incorrect configuration, deafening noise occurs that may damage the speaker.

5. Updating to the UD9004's Latest Software Version

Connecting to the Network

- You can update by downloading the latest firmware from the Internet.
- For more information, on the GUI menu, select "Other Setup" "Firmware Update" (FF page 33). • See "Network Setup" (@ page 31) on the GUI menu for more information on network setting.



System Requirement

☐ Internet Connection by Broadband Circuit

Device that connects to the broadband circuit and conducts communications on the Internet. A type that is integrated with a router is also available.

□ Router

When using the UD9004, we recommend a router with the following features.

- Built-in DHCP (Dynamic Host Configuration Protocol) server. Function that automatically assigns an IP address on the LAN.
- Built-in 100BASE-TX switch (built-in switching hub compatible with speeds upwards of 100 Mbps)

☐ Ethernet cable (CAT-5 or greater recommended)

- An Ethernet cable is not included with the UD9004.
- For Ethernet cable, we recommend you use shielded straight cable (normal type). If you use the flat type or a non-shielded cable, the noise may adversely affect other devices.



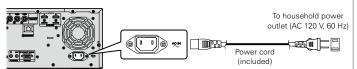
For Internet connection, use an ISP (Internet Service Provider). Ask your local dealer for details.

NOTE

- It is necessary to subscribe to an ISP in order to connect to the Internet. If you already have a broadband connection, there is no need to subscribe anew.
- The router you can use varies with the ISP. For more information, contact your ISP or PC dealer.
- · MARANTZ assumes no responsibility whatsoever for any communication errors or troubles resulting from customer's network environment or connected devices.

Others

- The UD9004 can use the DHCP function to automatically set the network.
- With the type of circuit in which network setting is performed manually, when subscribed to a provider, conduct the setting in accordance with "Network Setup" on the GUI menu (@page 31).
- If you connect the UD9004 to a network without a DHCP function, conduct IP address and other settings according to "Network Setup" on the GUI menu (@page 31).
- The UD9004 does not support PPPoE. If you subscribe to a circuit that is set with PPPoE, a PPPoEcompatible router is required.
- . When setting manually, check the setting contents with the network administrator.



NOTE

• Be sure to insert the power plug firmly. Incomplete connection results in noise generation.

Once Connections are Completed

Turning the Power On

Press the unit's POWER ON/STANDBY button or the remote control's POWER ON/OFF button.

"LOADING" appears on the display, and disc information is read.

* The "NO DISC" message is displayed when a disc is not loaded.



(UD9004)



On the GUI menu, when "Other Setup" - "Auto Power Mode" - "On" (@page 32), the following states are maintained for about 30 minutes, and then the power is turned automatically to standby.

- Disc not loaded
- Playback has stopped
- Stopped due to resume function

☐ When power is switched to standby

Either press POWER ON/STANDBY button on the unit, or press POWER ON/OFF button on the remote control.

The power indicator lights red.

NOTE

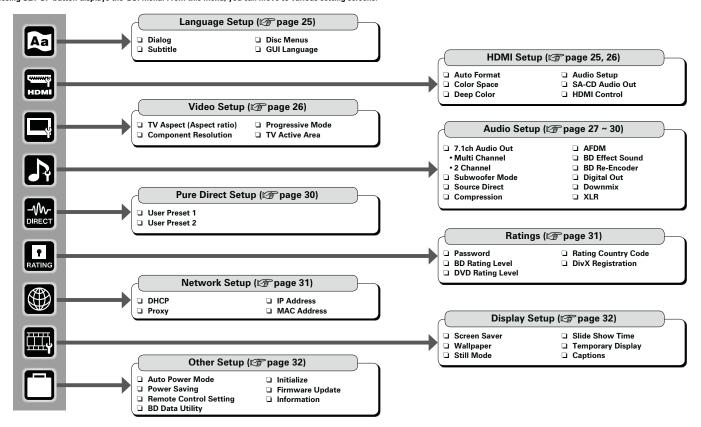
During power standby, a slight amount of power is consumed. To totally cut off the power, remove the power cord from the power outlet.



GUI Menu Setup

Menu Map

Pressing SET UP button displays the GUI menu. From this menu, you can move to various setting screens.



GUI Menu Operation

1 Press SET UP button.The GUI menu is displayed on the TV screen.

? Press **△**, **▼**, **►** buttons to select the menu to be set or operated.

※ To return to the previous item, press

✓ or RETURN button.

3 Press ENTER button to enter the setting.



☐ Exiting the GUI Menu

Press SET UP button while the GUI menu is displayed.

• The GUI menu display disappears.

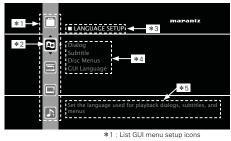
NOTE

You must use the GUI menu to make settings or operate while a disc or SD Memory Card is not inserted. In cases in which the resume function is activated, you may not make correct settings.

Examples of GUI Menu Screen Displays

Typical examples are described below.

[Example 1] Menu selection screen (Top menu)



*2 : Currently selected setup icon *3 : Currently selected setup item

Press ▼ button to select ' m and then press ► (Or press ENTER button.)

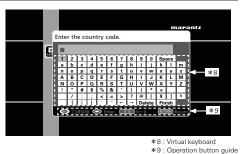
*4 : List of currently selected setup items *5 : Guide text for the currently selected



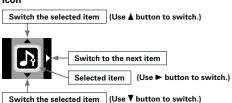


- *6: Selected setup icon
- *7: Options of the selected setup item

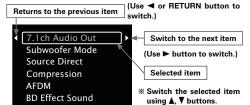
[Example 2] Rating Country Code input screen (with virtual keyboard)



☐ Icon



☐ List



Text colors of selected items of the GUI menu are as follows:

- · White: These items can be selected.
- · Gray: These items cannot be selected.

Language Setup Default settings are underlined

Languag	Je Setup Default settings are underlined.	
Set the language used for playback dialogs, subtitles, and menus.		
Setting items	Setting contents	
Dialog Set the dialog used to play BDs or DVDs.	Original: Plays the dialog selected at the top in the language ment stored in the disc. English/French/Spanish/German/Japanese/Italian/Swedish/Dutch, Russian/Chinese/Korean/Danish/Finnish/Norwegian/Icelandic, Hungarian/Romanian/Turkish/Greek/Irish/Portuguese/Polish/Czech, Stowak/Bulgarian Others: Enter the language code.	
Subtitle Set the subtitle language used to play BDs or DVDs.	Off: Do not display subtitles. English/French/Spanish/German/Japanese/Italian/Swedish/Dutch. Russian/Chinese/Korean/Danish/Finnish/Norwegian/Icelandic. Hungarian/Romanian/Turkish/Greek/Irish/Portuguese/Polish/Czech. Slovak/Bulgarian Others: Enter the language code.	
Disc Menus Set the language used for BD or DVD menus.	English/French/Spanish/German/Japanese/Italian/Swedish/Dutch Russian/Chinese/Korean/Danish/Finnish/Norwegian/Icelandic Hungarian/Romanian/Turkish/Greek/Irish/Portuguese/Polish/Czech Slovak/Bulgarian Others: Enter the language code.	
GUI Language Set the GUI language.	English/Français/Español/Deutsch/Italiano/Svenska/Nederlands 日本語	

NOTE

The setting may not be active depending on the disc.



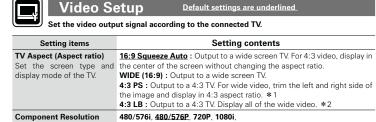
If "Other" is selected for "Dialog", "Subtitle" or "Disc Menus", refer to "Language Code List" (1287 page 51), use number buttons **0 9** button to input the language code, then press **ENTER** button to set.



HDMI Setup

Set the HDMI outp	ut signal or HDMI control function.
Setting items	Setting contents
video output resolution	Max. Res.: Output data using the maximum resolution that can be handled by the connected TV. When a TV is connected to both HDMI 1 and 2, maximum resolution corresponding with both is output. Panel Res.: Output data using the maximum resolution of the panel of the connected TV. When a TV is connected to both HDMI 1 and 2, resolution corresponding with both and that of the larger panel is output.
Color Space Set the video signal system to be output from HDMI.	[HDMI 1] or [HDMI 2]: Set the video signal system to be output from HDMI1 or HDMI2. • YCbCr: Output by YCbCr video format. • RGB Normal: Output using the RGB video system (16 (black) to 235 (white)). • RGB Enhanced: Output using the RGB video system (0 (black) to 255 (white)).
HDMI video signal, enabling	[HDMI 1] or [HDMI 2]: Set the HDMI1 or HDMI2 terminal to output Deep Color. • Auto: Deep Color is automatically output when the connected HDM device supports Deep Color. • Off: Do not output Deep Color.
Audio Setup Set the audio signal system to be output from HDMI.	Multi LPCM BM On]: Decoded Linear PCM multi-channel signal is output by the UD9004. Speaker setting is enabled. (BM: Bass Management) For setting, on the GUI menu, refer to, "Audio Setup" − "7.1ch Audio Out (page 27, 28). Speaker Configuration: Set the speaker configuration used for playback. Automatically sets channel components and characteristic according to setting. Channel Level: Set the volume of the test tone to be the same when it is output from each speaker. Distance: Set the distance between the listening position and each speaker. To output sound from a disc while maintaining the same sound quality as the disc sound, some settings of Audio Setup are disabled as defaul (page 25 27). To enable the settings of Audio Setup, set Source Direct to "Off (page 26).
	[Multi LPCM BM Off]: Decoded Linear PCM multi-channel signal is output by the UD9004. This setting is not made in speaker setting. (BM Bass Management)
	[2ch]: Output the downmixsed 2-channel LPCM signal.

	HDIMI Setup
Setting items	Setting contents
SA-CD Audio Out	On: Super Audio CD audio is output.
Set to output stereo/multi	Off: Super Audio CD audio is not output.
area audio of Super Audio	
CD to the HDMI terminal.	The Super Audio CD audio signal is a 44.1 kHz/16-bit Linear PCM output.
HDMI Control	[Control]
Can operate the unit in	
	HDMI1 On: Link with the device connected to HDMI1.
control support device.	HDMI2 On: Link with the device connected to HDMI2.
	[Power Off Control]
	• On: Turns the UD9004's power to standby through linkage to the TV.
	• Off: Does not turn the UD9004's power to standby through linkage to
	the TV.
	F 11 11DM1 1 11 11 11 11 11 11 11 11 11 11 11 11
	 For the HDMI control function to operate, it is necessary for the UD9004 or HDMI-compatible TV connected to the UD9004 to have an HDMI
	connection.
	• Refer to "HDMI Control Function" (@page 49) for more information
	about the HDMI control function.
	• After the "HDMI Control" setting has been changed, always turn off the
	power to the connected equipment and then turn it back on.



Set the component output	Source Direct: Output video using its source resolution. Convert th
resolution.	1080p video source to 1080i.
Progressive Mode	Auto: Detect the type of video material and automatically switch th
Set an appropriate progressive	mode. Normally, this setting is used.

conversion mode for the Video1: Suitable for playing video material discs. Video2: Suitable for playing video material discs or 30-frame film material source video material. TV Active Area Full: Set when a home-use monitor is connected.

Sets the horizontal display Normal: This setting is used when video synchronization is disturbed on range when the analog a professional-use monitor. video output resolution is

This is not available for HDMI output.

- *1 : Depending on the video content, even though you set the 4:3 PS (Pan Scan), the content may be output in 4:3 LB (Letter Box).
- *2: Only valid for content recorded in 480i/576i.

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Audio Setup

as default (Papage 25 27). To enable the settings of Audio Setup, set Source Direct to "Off" (Papage

Set the speaker or audio to be output.

Setting related to each channel setting and other audio in the case of outputting analog audio signals decoded by the UD9004

Setting items	Setting contents
7.1ch Audio Out	Multi Channel
Makes the audio setting for output of analog 7.1-channel audio to a multi-channel	Set the speaker configuration, channel level and distance for multi-channel playback.
amplifier.	NOTE
NOTE • You cannot select "None" or "No" for "HDMI Setup" – Audio Setup" – "Multi	When outputting multi-channel audio set to surround sound by the UD9004, to the analog input of an AV Amp, set so that the AV Amp outputs audio without modification. If the AV Amp conducts further surround processing, the appropriate audio will not be output.
LPCM BM On" - "Speaker	2 Channel
Configuration" (** page 25) on the GUI menu. • To output sound from a disc while maintaining the same sound quality as the	Outputs multi-channel downmixed audio from the front speaker output terminals (FL/FR) of the 7.1-channel audio output terminals. Make this setting when outputting to a TV and 2-channel amplifier. NOTE
disc sound, some settings	The 7.1-channel audio output terminals output only FL/FR when you
of Audio Setup are disabled	make this setting.

make this setting.
□ Speaker Configuration : Set the speaker configuration.
 [Front]: Set the front speaker size. Large: Use of a large speaker that can adequately play back low frequencies. Small: Use of a small speaker that has inadequate playback capacity for low frequencies.
[Center]: Set the presence and size of the center speaker. • Large: Use of a large speaker that can adequately play back low frequencies. • Small: Use of a small speaker that has inadequate playback capacity for low frequencies. • None: Select when a center speaker is not connected.
Subwoofer: Set the presence of a subwoofer. Yes: Use a subwoofer. No: Select when a subwooofer is not connected.

Setting items	Setting contents
7.1ch Audio Out	[Surround]: Set the presence and size of the Surround speakers. • Large: Use of a large speaker that can adequately play back low frequencies. • Small: Use of a small speaker that has inadequate playback capacity for low frequencies. • None: Select when the surround speakers are not connected.
	[Surr. Back]: Set the presence, size and number of surround back speakers. • Size: Set the surround back speaker size. Large: Use of a large speaker that can adequately play back low frequencies. Small: Use of a small speaker that has inadequate playback capacity for low frequencies. None: Select when the surround back speakers are not connected. • Number: Set the number of surround back speakers. 1 spkr: Use only one surround back speaker. Surround back audio is output from the surround back L terminal. 2 spkrs: Use two surround back speakers.

Default settings are underlined

Setting items	Setting contents	Setting items	Setting contents
7.1ch Audio Out	[Crossover Freq.] : Set the upper limit of the low frequency signals output from the subwoofer.	7.1ch Audio Out	☐ Channel Level : Set the volume of the test tone to be the same when it is output from each speaker.
	 40Hz/60Hz/80Hz/90Hz/100Hz/110Hz/120Hz/150Hz/200Hz/250Hz Outputs at below set frequency, each speaker's bass signal output from the subwoofer. Set this according to the low frequency reproduction capabilities of the speakers you are using. 		[Mode] : Select a test tone output method. • Auto : Automatically switch the test tone output speaker. • Manual : Manually switch the test tone output speaker.
	Advanced: Set the low frequency signals to be output from the signals of the respective speakers to the subwoofer. Front, Center, Surround, Surr. Back		[Start]: Begin outputting the test tone. Front L / Center / Front R / Surround R / Surr. Back R / Surr. Back L / Surround L / Subwoofer
	40Hz/60Hz/ <u>80Hz</u> /90Hz/100Hz/110Hz/120Hz/150Hz/200Hz/250Hz LFE / LFE+Main		When the test tone output stops, press RETURN button.
	80Hz/90Hz/100Hz/110Hz/120Hz/150Hz/200Hz/250Hz When, on the GUI menu, "Audio Setup" – "7.1ch Audio Out" – "Multi		[SW +10dB]: Increase the subwoofer output level by 10 dB. * • Off: Do not change the subwoofer output level. • On: Increase the subwoofer output level by +10 dB.
	Channel" – "Speaker Configuration" – "Subwoofer" is set to "Yes" (@page 27), you can select "LFE" or "LFE+Main".		[Default]: Reset all channel level settings to factory default. • No: Do not Reset. • Yes: Reset.
	Select "Large" or "Small" not according to the physical size of the speaker but according to the low frequency reproduction capabilities		$\hfill \square$ Distance : Set the distance between the listening position and each speaker.
	based on the frequency set at "Crossover Freq.".		[Feet] or [Meters]: Set the unit of distance.
	 On the GUI menu, if the "Audio Setup" – "7.1ch Audio Out" – "Multi Channel" – "Speaker Configuration" item setting is changed, other settings are automatically changed as well. 		[Step]: Set the minimum variable width of the distance. 1ft, 0.1ft, 0.1m, 0.01m
	[Example]		[Default]: Reset all distance settings to factory default.
	If you set "Front" to "Small", "Subwoofer" is set to "Yes" and "Large" cannot be selected for "Center", "Surround" and "Surr. Back". • Audio signal (sampling frequency, number of channels) from the HDMI output terminal may be restricted by the specification of the HDMI audio that can be input by the device at the other side. [Example]		Front L / Front R / Center / Subwoofer / Surround L / Surround R / Surr. Back L / Surr. Back R : Select the speaker you want to set, and set the distance. Set the value that is closest to the measured distance. 0~60ft or 0~18m
	If the HDMI audio specification of the device at the other side is the		
	5.1 channel, even when UD9004 plays back by the 7.1 channel, the 5.1 channel audio is automatically output. In that case, the analog audio output becomes the 5.1 channel output as well.		Default settings: Front/Center/Subwoofer: 3.6 meters (12 feet) Surround/Sur. Back: 3.0 meters (10 feet) Set the difference in the distance betweem the speakers to less than 6.0 meters (20 feet).
		Subwoofer Mode	LFE: Add the low frequency signal of the channel for which the speaker
			size is set to "small" to the subwoofer signal and output it. LFE+Main : Add the low frequency signal of all channels to the subwoofer
		subwoofer.	signal and output it.

			Addio Setup
Setting items	Setting contents	Setting items	Setting contents
subwoofer settings and	Off: Enable the speaker and subwoofer settings. On: 50kHz: Output the disc contents as is. When playing Super Audio CD, output up to 50 kHz audio signals. On: 100kHz: Output the disc contents as is. When playing Super Audio	BD Effect Sound Sets for a click sound and other outputs during BD popup menu operations.	On: Outputs BD effect sound. Off: Does not output BD effect sound.
NOTE Set to within the playback frequency band of the amplifier you are to use: "On" at "50 kHz" or "100 kHz". Setting outside the frequency band can result in damage to your amplifier and even fire.	Setting "On: 50 kHz" or "On: 100 kHz" enables full-range playback on all channels recommended for DTS. (Note that this results in a 5 dB increase in subwoofer volume, and a 15 dB increase with Super Audio CD). This also allows you to play back the 6-channel source of DVD-Audio recorded on all channels with the full frequency range. In this case, make an analog connection according to disc operating manual. When set to "On: 50 kHz" or "On: 100 kHz", all speaker sizes are set to "Large" and "Yes" is set for the subwoofer. Even when set to "On: 50 kHz" or "On: 100 kHz", "Channel Level" and		Auto: Outputs primary audio (main audio) in the same type of audio format. Dolby Digital/Dolby Digital Plus/Dolby TrueHD are output as Dolby Digital, DTS/DTS-HD are output as DTS and Linear PCM is output as Linear PCM. Dolby Digital: Outputs to the digital audio output terminal (optical/coaxial) with Dolby Digital. DTS: Outputs to the digital audio output terminal (optical/coaxial) with DTS. Valid when "BD Audio Mode" is set to "Mix Audio Output" (***) page 33).
range of Dolby TrueHD/ Dolby Digital/Dolby Digital Plus audio. At night or other times when you cannot play	Off: Dynamic Range compression is not applied. Low: Set minimum dynamic range compression. Middle: Set middle dynamic range compression. High: Set maximum dynamic range compression.	audio output. For more information on each	PCM: Output the downmixed audio signal to 2ch LPCM. PCM Down Sampling: Convert sampling frequency audio greater than 48 kHz to a 48 kHz 2ch LPCM audio output signal.
AFDM Automatically set the surround mode by detecting	On: Automatically set surround mode when the ID signal is included. Off: Do not set surround mode even when the ID signal is included. MTRX: Create a surround audio signal by matrix processing, regardless of the presence of an ID signal. An EX flag may not be included for Dolby Digital EX sources. Even with "AFDM" set to "On", set to "MTRX" in case the playback mode does not automatically switch. NOTE • This setting is valid when "Audio Setup" – "7.1ch Audio Out" on the GUI menu is set to (12) page 32) and when "HDMI Setup" – "Audio Setup" on the GUI menu is set to "Multi LPCM BM On" (12) page 25).	convert a multi-channel	Lt/Rt: Signals are converted to Dolby Surround compatible 2-channel audio signals for output. This setting is valid for DTS-HD, DTS Digital Surround, Dolby Digital Plus and Dolby Digital audio signals. (If the connected AV Amp is Dolby Pro Logic compatible, AV Amp plays back using surround audio.) Stereo: Outputs by converting to the 2ch (stereo) audio. NOTE In order to enable the "Lt/Rt" setting when playing back BD, set "BD Audio Mode" to "HD Audio Output" (@page 33).

This setting is invalid when "Audio Setup" – "Source Direct" on the GUI menu is set to "On" (12 page 29).

This function is invalid for the DTS-CD source.

	Audio Setup
Setting items	Setting contents
XLR Set the signal to be output from the XLR terminal.	[Terminal Polarity] : Set the polarity of the XLR terminal. • Normal : Normal polarity. • Inversion : Reverse the polarity.
	[Gain Up]: Can increase output gain when the input sensitivity of a device connected via XLR is low. • Off: Outputs at standard gain from the XLR terminal. • On: Increase the output gain of the XLR terminal. Set when the input sensitity of the connected device is low.
	The default UD9004 balance model XLR audio connectors pin alignment is as shown. ① GROUND ② HOT ③ COLD



Pure Direct Setup

Default settings are underlined

Makes settings regarding digital audio and video output modes during Pure Direct mode, as well as display messages. Two types of setting can be registered.

Setting items	Setting contents
User Preset 1/	[Digital Out]: Set whether to output signals to the digital audio output
User Preset 2	terminal.
This sets the operating	• On : Enable digital audio output.
mode for "User Preset 1" or	Off: Disable digital audio output.
"User Preset 2" selected by	[Video Out]: Set option of video output.
PURE DIRECT button.	• On : Enable video output.
Setting each of these items	• Off: Disable video output. This setting also disables audio output from
to "Off" enables output of	the HDMI terminal.
high quality analog signals	[Display]: Set option for front panel display.
free of interference from the	• On: Turn on display.
associated circuits.	Off: Turn off display.
	For more information, see "Playing Back High-quality Audio (Pure Direct
	Function)" (F page 40).



MAC Address

Network Setup

Default settings are underlined

Set to connect to the Internet.

To obtain update support for your UD9004, you can download the latest firmware from our website.

Setting items	Setting contents	our website. d Make a network connect beforehand according to "Connecting to the Network" (1267 page 21).	
Password Sets the password for changing the parental control level and	Change: Change the password.Use 0 9 button to enter a password and then press ENTER button to finalize it.		
parental control country code		Setting items	Setting contents
playing BD. DVD Rating Level	Level 0 ~ 254 : Set the age allowed to play back media. Restricts playback or of discs with relevant parental control. No Limit : Do not restrict playing of BDs. Level 1 ~ 8 : Set the parental level for playing DVD. Lock All : Restrict playing of all DVDs. No Limit : Do not restrict playing of DVDs. Argentina / Australia / Austria / Belgium / Brazil / Canada / Chile / China/ Denmark / Finland / France / Germany / Hong Kong / India / Indonesia / Italy / Japan / Korea, Republic of / Malaysia / Mexico of / Netherlands /New Zealand / Norway / Pakistan / Philippines / Portugal / Russian Federation / Singapore / Spain / Switzerland / Sweden / Taiwan / Thailand / United Kingdom / United States / Colombia / Greece / Ireland / Luxembourg / Poland Others : Inputs the country code. Refer to "Country Code List" (☐ page 52) and, with the virtual keyboard, use ▲, ▼, ◄, ▶ and ENTER buttons to input the country code.	DHCP Set how to perform network configuration, automatically or manually. Since the factory default setting is "On", you do not	function, manually configure the following network settings. For the details of the settings, confirm with the provider or network administrator. Use 0 9 button to enter a value and then press ENTER button to finalize it. **IP Address: Manually set the IP address of the LID9004.
parental control.		need to set items such as the IP address if the DHCP server of the broadband router is set to "Enable". Configure a proxy server if necessary. Proxy Set to connect to the Internet via a proxy server.	connected to the UD9004, enter the subnet mask notified by the provider usually in a document. Usually, "255.255.255.0" is set. • Default Gateway: If the device is connected to a gateway (router), enter its IP address. • Primary DNS: Enter the primary DNS. • Secondary DNS: Enter the secondary DNS. [Off] Do not use a proxy server. [On (Address)] Set to connect to the Internet via a proxy server. Use the address to specify the proxy server. Use 0 9 button to enter the address
DivX Registration Display the DivX [®] registration code.	Show Code: Display the DivX® registration code		and then press ENTER button to finalize it. •Port: Use 0 9 button to enter a port number and then press ENTER button to finalize it. [On (Name)] Set to connect to the Internet via a proxy server. Specify the proxy server using the domain name. Input the domain name with the virtual keyboard, using ▲, ▼, ◄, ▶ and ENTER buttons. •Port: Use 0 9 button to enter a port number and then press ENTER button to finalize it.
		IP Address	UD9004's IP address is displayed. If the IP address cannot be obtained or is not set, " " is displayed. In that case, check that the connection and

Ratings

Set BD or DVD parental lock or display DivX® registration codes.

SET UP

Default settings are underlined

network configuration is correct.

Displays the MAC address of the UD9004.



Display Setup

Default settings are underlined

Set display-related items.

Setting items	Setting contents
Screen Saver Set the screensaver.	Off: Do not use the screensaver. On: The screensaver function activates when stop or pause status continues for about three minutes.
Wallpaper Set to display the background while playback is stopping.	Picture: Displays the MARANTZ logo. Black: Set the background to black. Gray: Set the background to gray. Blue: Set the background to blue.
Still Mode Set image quality during pause.	Automatic: Display automatically using "Field" or "Frame" per the still image information. Field: Set when there is a blurred image when "Automatic" image display is set. Frame: Set to display non moving images in high resolution.
Slide Show Time Sets the display time of JPEG files.	$\bf 3 \sim \bf 5 \sim 100 sec$: This sets the display time per frame of a JPEG file during slideshow playback.
Temporary Display When the display is set to "Off" by the Dimmer Control (\$\mathbb{T}\$ page 49) or Pure Direct Function (\$\mathbb{T}\$ page 40), this sets it to temporarily display operations received.	$ \begin{array}{l} \textbf{Off:} \ \text{Do not temporarily display operations.} \\ \textbf{\Omegan:} \ \text{Temporarily display operations.} \end{array} $
Captions This setting output a subtitles signal to a closed caption decoder (sold separately).	Off: Do not output the closed caption (subtitle) signal. On: Output the closed caption (subtitle) signal.



Other Setup

Setting items	Setting contents
Auto Power Mode This setting automatically sets the power to standby.	Off: Do not use auto power mode. On: This setting automatically sets the power to standby if any of the following states continues for approximately 30 minutes. • Disc not loaded • Playback has stopped • Stopped due to resume function
Power Saving Set power saving mode during standby.	Power Saving Standby: This is the lowest power consumption mode During standby, operations are not accepted via HDMI control or RS-232C. Normal Standby: This is the low power consumption mode. During standby, operations are accepted via RS-232C but not accepted by HDM control. HDMI Control Mode: Setting for turning the power on using an externa device's HDMI control function or by operation via RS-232C. Slightly higher power consumption. Quick Start Mode: Start up time is faster but power consumption during standby is higher.
Remote Control Setting (Main unit side) Set the remote control.	[Remote ID] Switches the UD9004's remote control ID code when other MARANTZ BD Players are in the vicinity. • BD_1: Set the code setting on the remote control to "1" (**) page 7" remote Control Setting (Remote Control Side)"). • BD 2: Set the code setting on the remote control to "2" (**) page 7" Remote Control Setting (Remote Control Side)").
BD Data Utility Erases data on SD Memory Card, and initializes cards.	BD Data Erase: Erases both internal memory and SD Memory Card storage. Initialize SD Card: Initialize the SD card to be used for the Bonus View function. NOTE Insert or remove a SD Memory Card while the power is in standby. If you insert a SD Memory Card while the power is ON, the SD Memory Card may not be read. The SD card used for the Bonus View function must have a capacity of

Default settings are underlined

1GB or greater. Also the SD card must be initialized on the UD9004. This operation will delete all the data. Do not perform this operation when an SD card containing MP3 or JPEG data is inserted.

	Other Setup
Setting items	Setting contents
Initialize All settings including audio mode and picture quality are default settings.	Cancel: Do not initialize. OK: Execute initialization.
Firmware Update Update the firmware of the unit via the Internet.	Check for Update: Check if the latest firmware exists. You can also check approximately how long it will take to complete an update. Start: Starts firmware update. When updating starts, the power indicator lights red and the GUI screen is shut down. During update, a rough remaining time is indicated on the display. When updating is complete the power indicator lights green and normal status is resumed.
Information Displays the license for the IPA font used by this product.	[Font License] Japanese (Original): Displays in Japanese. The font used in this product's GUI menu screen conforms to IPA font specifications. See the following URL for the IPA font license agreement. http://ipafont.ipa.go.jp/enduser_license.html

Cautions on "Firmware Update"

- In order to use these functions, you must have the correct system requirements and settings for a broadband Internet connection (@page 21, 31).
- Do not turn off the power until updating is completed.
- Information regarding the "Firmware Update" function will be announced on the MARANTZ web site each time related plans are defined.
- Even with a broadband connection to the Internet, approximately 1 hour is required for the updating procedure to be completed.

Once updating starts, normal operations on the UD9004 cannot be performed until updating is completed. Also, setting items of the GUI menu of UD9004 or setting items of the image adjustment may be initialized.

Various Settings

You can set the audio mode and change playback files.

You can set various modes during playback. The setting menu is displayed at the top of the screen.

1 Press MODE button.Displays the currently settable menu.

Mix Audio Output

* The display content changes depending on the media being played back.

2 Select the setting item using **A**, **V** buttons, and then press **ENTER** or **►** button.

3 Use ▲, ▼ buttons to select a setting and use ENTER button to change the setting.



Setting the A	udio Mode Default settings are underlined.		
Setting items	Setting contents		
BD Audio Mode Switch BD audio playback mode.	HD Audio Output: Can view by outputting high quality signals such as Dolby TrueHD, Dolby Digital Plus, or DTS-HD as its high sound quality bitstream. Cannot listen to interactive or secondary audio. Mix Audio Output: Outputs a mix of primary audio/interactive audio/secondary audio. In the case of Dolby TrueHD, Dolby Digital Plus and DTS-HD audio playback, set to "HD Audio Output".		
	When "Mix Audio Output" is set and DTS-HD audio signals are played, only the DTS digital surround stream of the DTS-HD audio stream is decoded and output.		
Surround Mode Converts a 2-channel source, etc. to output multi-channel surround audio.	Direct: Do not apply surround processing and output audio as is. DOLBY PLIIx (or PLII): Apply DOLBY PLIIx (or PLII) surround processing and output the signal. DTS NEO:6: Apply DTS NEO:6 surround processing and output the signal.		
	• This setting is valid when "Audio Setup" – "7.1ch Audio Out" on the GUI menu is set to "Multi Channel" and when "HDMI Setup" – "Audio Setup" on the GUI menu is set to "Multi LPCM BM On" (@page 25).		

menu is set to "On" (@ page 29).

• This setting is invalid when "Audio Setup" - "Source Direct" on the GUI

Setting items	Setting contents
Surround Parameters	[PLIIx Mode]: Sets to Dolby Pro Logic IIx mode. [PLII Mode]: Sets to Dolby Pro Logic II mode. • Cinema: Appropriate setting for movie sources.
	 Pro Logie: Pro Logic playback mode. [DTS NEO:6 Mode]: Sets to DTS NEO: 6 mode. Cinema: Appropriate setting for movie sources. Music: Appropriate setting for music sources. Center Image (Setting value: 0 ~ Q3 ~ 1.0): Shift the center channe audio left or right to widen the forward acoustic field image.
heaviness of bass and	Off: The "Restorer" is not used. Mode1 (Restorer64): Corrects the treble for compressed audio sources with extreme lack of treble. Mode2 (Restorer96): Optimally corrects treble and bass for compressed audio sources.
	NOTE • Effective for compressed audio source of MP3, WMA, AAC, Dolby Digital, DTS, and MPEG. • This setting is invalid when "Audio Setup" − "Source Direct" on the GU menu is set to "On" (**) page 29).

Changing the Playback File Display underlined.			
Setting items Setting contents			
File filter Selects the file format you	All: Plays back MP3/WMA/AAC/LPCM/JPEG/DivX [®] files. Audio: Plays back MP3/WMA/AAC/LPCM files.		
	Picture : Plays back JPEG files. Video : Plays back DivX® files.		
disc.	Audio & Picture: Plays back MP3/WMA/AAC/LPCM/JPEG files.		
	This operation is effective only when playback is stopped.		

Making Other	Settings Default settings are underlined		
Setting items	Setting contents		
Secondary Video (PIP)	O (PIP) Off: Does not display Secondary Video(Picture-In-picture). 1/X * : Displays the first Secondary Video. 2/X * : Displays the second Secondary Video. X/X * : Displays the X th Secondary Video. * : "X" is the number of Secondary Videos recorded and differed depending on the disc ("Playing Bonus View" @ page 38)		
Audio/Video Sync Correct displaced video- audio playback timing.	HDMI: Synchronizes audio output to HDMI output video. Analog Video Out: Synchronizes audio output to analog video output.		
Audio Delay Adjust While viewing video, manually adjust the time to delay audio output.	$\underline{0} \sim 200 msec$: Use this to adjust the audio output delay time manually.		
· ·	Off: Displays the source video signal without modification. This should normally be set to "Off". On: Set when viewing cinemascope size video with a combination of projector and anamorphic lens. Extends the image in the vertical direction so that the top and bottom black portions disappear.		

Adjusting the Picture Quality (Picture Control)

You can adjust the picture quality to your liking.
You can store up to a maximum of 5 values in memory.

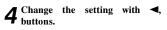
1 Press PICT. ADJUST button.
The currently set status is displayed.

2 Select the memory number you want ("Memory 1" ~ "Memory 5") with **△**, **V** buttons, and then press ENTER button.



3 Select the item you want to change with **A**, **V** buttons.





- ※ Refer to the table on the right regarding contents of items which can be set.
- □ When Finishing Picture Adjustment
 Press PICT. ADJUST button during picture
 adjustment.
 □ When Outputting Standard Bicture
- ☐ When Outputting Standard Picture Quality without Using Picture Adjustment

Press **RETURN** and **▲**, **▼** buttons to select "Standard" and then press **ENTER** button.



The picture adjustment set values are retained in memory even after the power is turned off.



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SEARCH PROGET

Enhancer Strengthens the contours of the picture.	0 ~ +11	0
Gamma Correction Adjust video brightness in detail.	G0 ~ 9	G0 = 24 / G1 = 32 G2 = 48 / G3 = 64 G4 = 80 / G5 = 96 G6 = 128 / G7 = 160 G8 = 192 / G9 = 224
Sharpness (medium range) * 1 Adjust picture sharpness for the medium frequency range.	-6 ~ +6	0
Sharpness (high range) Adjust picture sharpness for the higher frequency range.	-6 ~ +6	0
Hue (color tone) Adjust the green and red color balance.	-6 ~ +6	0
White Level Adjust the white level.	-5 ~ +5	0
Black Level Adjust the black level.	-5 ~ +5	0
Chroma Level Adjust the color density.	-6 ~ +6	0
Setup Level * 2 Adjust the black areas of the image.	0 IRE 7.5 IRE	7.5 IRE
H.Position Adjust the left/right position.	-7 ~ +7	0
V.Position Adjust the top/bottom position.	-7 ~ +7	0

Setting

contents

0 ~ +3

-6 ~ +6

0 ~ +12

Default

0

0

0

Setting items

Reduce noise in the entire

Adjust picture contrast.

Adjust picture brightness.

DNR

picture.

Contrast

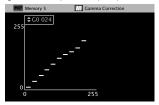
Brightness

- *1: This is not available for HDMI output
- *2 : Effective only for the 480i video signal from the video output terminal, S video output terminal, and component video output terminal

About Gamma Correction

When you select "Gamma Correction", and then press **ENTER** button, you can change the setting with \blacktriangle , \blacktriangledown , \blacktriangleleft , \blacktriangleright buttons.

In the example of the graph below, the horizontal axis shows the brightness level of the pictured recorded on the disc. The vertical axis shows the brightness of the picture output by the UD9004.



 On adjusting the brightness on the output side of bright parts on the disc side, the normally hard to see bright parts become clearly discernible images.



- On adjusting the brightness on the output side of dark parts on the disc side, the normally hard to see dark parts become clearly discernible images.
- ☐ Resuming Initial Values after Gamma Correction
 Press CLEAR button while a graph is displayed.

ress **CLEAR** button while a graph is displayed.



Playback

Disc playback

- ☐ Playing BD and DVD-Video (@ page 37, 38)
- ☐ Playing Back Super Audio CD (@page 39)
- ☐ CD Playback (© page 39)
- □ DVD-Audio Playback (@ page 39, 40)
- ☐ Playing Back High-Quality Audio (☐ page 40)

File playback

☐ File Playback (@ page 40 ~ 42)

Operations Enabled During Playback (@page 43)

NOTE

- The "O" (prohibited mark) may appear on the top right of the TV screen during an operation. This means that the operation being conducted is prohibited.
- Depending on the disc, certain operations may not be as described in this manual. Check each disc owner's manual for more information.
- During playback of a 2-layered disc, pictures may stop momentarily. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction.

Introduction

Before Playing a Disc

Turn on the power of the amplifier and TV. Set the TV and amplifier function to UD9004 input.

7 Turn the UD9004 power on.

- *When playing back a bonus view, before turning on the power of the UD9004, insert a SD Memory Card that has at least 1GB and has been initialized by UD9004.
- **3** Press the SD/DISC button on the main unit to set the playback media mode to "DISC MODE".



- Press OPEN/CLOSE button to open/close the disc tray.
- Insert the disc with the side you want to play facing down.



Before Playing a SD Memory Card

Turn on the power of the amplifier and TV.Set the TV and amplifier function to UD9004 input.

1 Insert a SD Memory Card.

Open the door at the right side of the unit and insert the SD Memory Card in the direction indicated by the arrow with the label side up (12) page 6, 8).

 $\mathbf{7}$ Turn the UD9004 power on.

4 Press the SD/DISC button on the main unit to set the playback media mode to "SD CARD MODE".

The SD indicator on the front panel lights.



The playback media mode setting remains in the memory, even when the power is set to standby.

About Playback Information

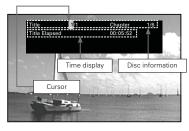
Displayed playback information changes between the information bar and media player screen each time DISPLAY button is pressed.

To erase display, press DISPLAY button until it goes away.



** Displayed content differs depending on the media being played back.
Also, the information displayed during playback and stop differs.





* Displayed inside the frame at the top of the screen. (See the next page.)

□ Disc Information Display

Title being played/total number of titles Chapter Chapter being played/total number of chapters

• Group Group being played/total number of groups

• Track Track being played/total number of tracks

□ Time Display

- Title Elapsed
- Title Remain
- Chapter Elapsed
- · Chapter Remain
- Group Elapsed Group Remain
- Track Elapsed
- Track Remain

☐ HDMI Output Signal Display

HDMI1/HDMI2

 Video Info Video output signal format/resolution

 Audio Info Audio format being output Max Channel

Number of audio channels that the connected device can receive

Search Using Information Bar

In the orange color cursor area, when you enter the number that you wish to search, that location is searched. There are 4 search modes, "Title search", "Chapter search", "Group search" and "Track search".

1 Use **△**, **V**, **⋖**, **▶** buttons to move the cursor to the item that you wish to seem! item that you wish to search.

2 Use 0 ~ 9 and +10 buttons to enter a value.

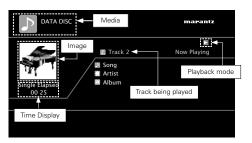
3 Press ENTER button. Search is executed and playback begins.

* If the input number information is not on the disc, the current playback display reappears.

∆, **∀**, **⊲**, **⊳** Select ENTER Decision 0 9, +10 Number entry



Media Player Display SA-CD CD MP3 WMA AAC LPCM



☐ Disc Information Display

SA-CD MP3 WMA AAC

- D Title
- Artist name
- Album title



About the time display and HDMI output signal display, see "Information Bar Display" (@page 36).

Playback preparation ("Before Playing a Disc" **page 36).**

Playing BD and DVD-Video

 Make the various settings for playback on the disc menu.

∆, **∀**, **⊲**, **⊳ ENTER** Playback



. You can make the following settings on the disc menu. (Settable items vary depending on the

Subtitle language Audio language Audio format etc.

 During DVD-Video playback, press TOP MENU or POP UP MENU/ MENU button to display the menu.

If the menu continues, press **△**, **▼**, **⊸** buttons to get to the next

Select the playback title or chapter from the top menu for playback.

∆ , ∀ , ⊲ , ►	Select
ENTER	Playback
0 9, +10	Playback

Disc Menus

Subtite

Audio Setup

Angle

Sub Story

Top Menu

[Example] Disc menu



[Example] Top menu



With BD, depending on the disc, you can select title and chapter from the popup menu.

[Example] Popup menu

☐ Playing BD-Video Compatible with Bonus View

- With a disc that is compatible with bonus view (picture-in-picture), besides the main video (primary video) stored on the disc, you can play back the video director's commentary and simultaneously ongoing sub-story, as well as sub-video such as alternative camera angle (secondary video).
- Some BD discs use SD cards as the recording memory for Bonus View playback. While the UD9004 is in standby, mount the SD Memory Card beforehand.
- The playback method, etc., is determined by the disc, and varies depending on the disc. Refer to the operation guide of the relevant disc.

☐ Playing Bonus View

Press **MODE** button to select the secondary video display you wish to playback.

Playing BD and DVD-Video



[Selectable item]

- Off : Does not display Secondary Video.
- 1/X * : Displays the first Secondary Video .
- 2/X * : Displays the second Secondary Video.
- X/X * : Displays the X th Secondary Video.
- X/X *: Displays the X th Secondary video.
- *: "X" is the number of Secondary Videos recorded and differs depending on the disc.



[Example] Bonus view



- Insert or remove a SD Memory Card while the power is in standby.
 If you insert a SD Memory Card while the power is ON, the SD Memory Card may not be read.
- The SD card used for the Bonus View function must have a capacity of 1GB or greater. Also the SD card must be initialized on the UD9004 (*** page 32).

Playing Back Super Audio CD_

1 Playback preparation ("Before Playing a Disc" **に** page 36).

2 Select the playback area and layer with SOUND MODE button.

Multi : Plays back the multi-channel area of the HD layer.

Stereo : Plays back the 2-channel area of the HD layer.

CD : Plays back the CD layer.

※ Pressing ► button plays back the selected area/ layer.

☐ When You View the Text or Playback Time Display

See "Media Player Display" (P page 37).



- When playing back disc whose selected area or layer does not exist, select the playback area or layer in the order "Multi", "Stereo", "CD"
- The area/layer selected at **SOUND MODE** button remains in the memory even when the power is turned off.

CD Playback

Playback preparation ("Before Playing a Disc"

2 Press ► button. Playback begins.

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SEARCH PROOF SHIELD

□ When You Look at the Playback Time Display See "Media Player Display" (② page 37).

DVD-Audio Playback

1 Playback preparation ("Before Playing a Disc" © page 36).

2 Select the part for playback with SOUND MODE button.

Audio : Plays back the audio part.

Video : Plays back the video part.

3 If a top menu is available, select the playback group and track from the top menu, and then play back.

A. V. ⊲. ► Select

ENTER Decision or playback

0 9, +10 Playback

☐ When You View the Text or Playback Time Display

See "Information Bar Display" (@page 36).

Change Group/Track

1 During stop or during playback, select search mode with SEARCH button.

Search mode is displayed in the top right of the screen.

 $\ensuremath{\mbox{\ensuremath{\%}}}$ The search mode changes each time you press $\ensuremath{\mbox{\mbox{\ensuremath{\mbox{\sc peak}}}}$ button.

Group search mode **←** Track search mode

2 Select the playback group and track from the top menu, and then play back.

0 9, +10, ENTER

Plays back the group or track of the pressed number

** See "Looking for Specific Sections Using the Search Modes" (127 page 44) for instructions on inputting numbers.





CD

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DVD-A

The search mode selected with this operation is memorized until the standby or the disc tray is opened.

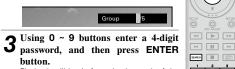
DVD-Audio Playback

Bonus Group playback

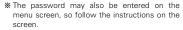
DVD-Audio may have a bonus group that can be played back on entry of a password.

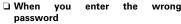
◄ During stop, select "Group" with SEARCH button.

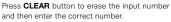
2 Enter the bonus group number with 0 ~ 9, +10 buttons.



Playback will begin from the 1st track of the selected group.









Select Still Images

With DVD-Audio with still images, you can select images displayed during playback.

Press PAGE+ button during playback.

The next still image is displayed.



Playing Back High-Quality Audio (Pure Direct Function)



This enables you to play back high quality audio by stopping the video signal, etc., output, and outputting the analog audio signal only.

Press PURE DIRECT button during stop, and then select pure direct mode.



Off

Inis turns off the pure direct function.

This turns off the digital signal output, video signal output and display on the display screen.

User Preset 1

User Preset 2

("Pure Direct Setup" page 30)



- You cannot use PURE DIRECT button while the GUI menu is displayed.
- The pure direct setting returns to "Off" when the UD9004 is put in standby mode.

File Playback

☐ About the File Display

· Number of folder directory levels

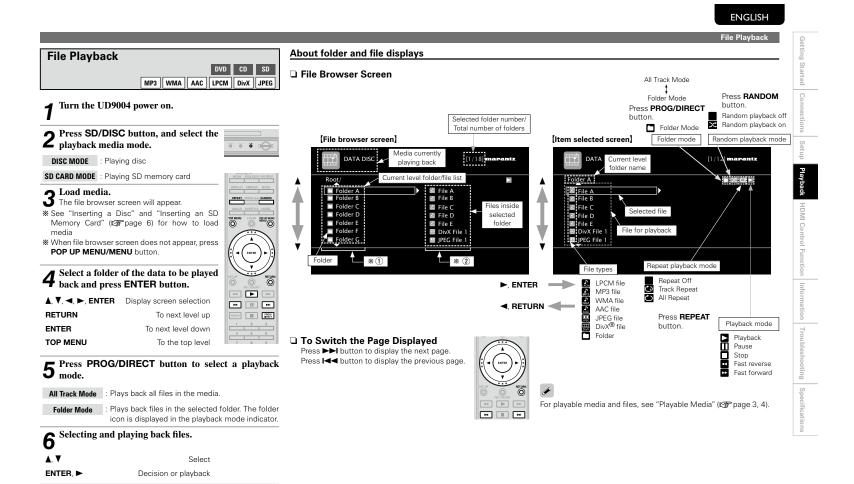
The limits on the number of folders and files that can be displayed by the UD9004 are as follows.

8 levels

(The limited number includes the root folder.)

Number of folders	999
 Number of files 	9999
 Number of text display characters 	
File name, Folder name	32
Artist name, title, etc.	60

- * Text more than one line is scroll displayed.
- * If characters not supported on the menu screen are included in a file name, title, artist name or album title, those are not displayed correctly.



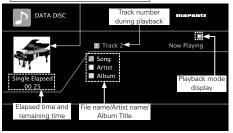
Operation during playback differs depending on the file being played

back. See "Operation During Playback" (Pp page 42).

About Screen Display During Playback

Display during Playback of Audio Files

Displays the JPEG image data for cover art, etc , recorded on the file being played



NOTE

The display of JPEG image data for cover art, etc., recorded on the file being played is valid when playing MP3 and AAC audio files.

Display of DivX® Files and JPEG Files

Displays video being played



Displays still image being played



Operation During Playback

Audio file and DivX® file operation MP3 WMA AAC LPCM DivX

☐ Playback in Any Order (Random Playback)

Press RANDOM button during stop, and then press ENTER or ▶ button.

☐ Playing Back Repeatedly (Repeat Playback) Press REPEAT button to select the repeat

playback mode.



• Set the image display time on the GUI menu with: "Display Setup" - "Slide Show Time" (P page 32)

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• With a large image file, the display time may be longer than the set

☐ Changing the Still Image being Played Back Press I◀◀, ▶▶I buttons.

• Before playback, or display of next image.

□ Pausing the Display

Press II button.

To cancel pause, press ➤ button.

☐ Changing the Still Image Orientation Press **▲**, **▼**, **◄**, **▶** buttons.

180° rotation Rotate 90° left

Rotate 90° right

Playing Back JPEG File (Still Image)

JPEG

| |

Slide show playback of JPEG format still image files stored on CD-R/-RW, DVD-R/-RW/+R/+RW disc and SD Memory Card.

1 Press POP OF WILLIAM browser screen is displayed. Press POP UP MENU/MENU button while the file

The thumbnail screen will appear.

* Pressing POP UP MENU/MENU button while the thumbnail screen is displayed returns you to the file browser screen.



2 Use **△**, **▼**, **⋖**, **▶** buttons to select still images.

3 Press ENTER button.
Display selected image on full screen.



☐ Returning to Thumbnail Display Screen Press POP UP MENU/MENU button.

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PROCEST HORAGE

Operations Enabled During Playback

Operations Enabled During Playback

- ☐ Pause Playback (@ page 43)
- ☐ Stop Playback (Resume Function) (@ page 43)
- ☐ Skipping to the Chapter/Track/File You Want to Playback (@page 43)
- ☐ Looking for Specific Sections Using the Search Modes (@page 44)
- ☐ Memorizing Locations You Want to Replay (Marker Function) (@page 45)
- ☐ Fast Forward/Fast Reverse (@ page 45)
- ☐ Step-by-Step Playback (@ page 45)
- ☐ Slow Forward/Slow Reverse Playback (@page
- ☐ Playback in Any Order (Random Playback) (@ page 46)
- ☐ Playing Back Repeatedly (Repeat Playback) (@ page 46)
- ☐ Repeat Playback between Specified Points (A-B Repeat) (@page 46)
- ☐ Playing back in your preferred order (Program Playback) (@ page 47)
- ☐ Switching Audio (@ page 47, 48)
- ☐ Changing the Subtitles and Subtitle Style (இ page
- ☐ Switching the Angle (page 49)
- ☐ Changing the Brightness of the Display (Dimmer Control) (r page 49)

If the video is blurred during pause, stop playback and press SET UP button, then, on the GUI menu. change "Display Setup" - "Still Mode" - "Field" (reproper 32).



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Skipping to the Chapter/Track/File You Want to Playback

BD DVD-A DVD-V DVD SA-CD CD SD MP3 WMA AAC LPCM DivX

I◄ button Playback begins from the start of the chapter/track/file being played.

▶► button Playback begins from the start of the next chapter/track/file.

* Continue pressing and skip to the chapter/track/file with just the number of times pressed.



Skipping to the start of a title or group may be prohibited depending

Stop Playback (Resume Function)

BD DVD-A DVD-V DVD SA-CD CD SD MP3 WMA AAC LPCM DivX

Press ■ button during playback.

Playback stops.

□ About Resume Function



When playback is stopped, the stop position is memorized The "►" indicator flashes on the display. When

playing back data from the stop position, press button while stop by the resume function.

☐ To Cancel the Resume Function

Perform one of the following operations.

- Press button during stop.
- · Open the disc tray.
- · Change the playback media mode with SD/ DISC button.
- Remove the SD Memory Card.

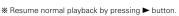
- The resume function does not work with menu playback or BD-J (Blu-ray Disc Java) compatible disc.
- The resume function remains valid even when the standby mode is set. For DivX® files, however, the resume function is cancelled even when the standby mode is set.
- The resume function is cancelled when the power is turned off by unplugging the power cord.

Pause Playback

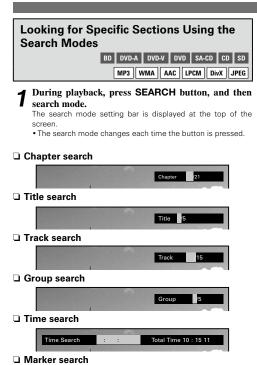


Press II button during playback.

The "II" indicator will light on the display.







Marker 1 2 3 4 5 6 7 8 AC

*** About Marker Search**

Marker search *

Track search

Group search

Plays back from your selected marker number.



- When the entry mode for chapter/title/track/ group search continues for about 5 seconds with no operation, it is cancelled.
- When the power is set to standby or the disc is removed, the set marker is deleted.

2 Conducting search condition entry or setting on the search mode setting bar.

Search specified location on completion of entry.



• Entering numbers

Entering 3 3, ENTER*
Entering 26 2, 6, ENTER* or +10, +10, 6
Entering 138 1, 3, 8, ENTER*

*: Depending on number of recorded songs or chapters, you don't need to use "ENTER" button.

Operations Enabled During Playback

- Search mode does not operate during program or random playback. Use I◄◄, ▶►I buttons to cue.
- Time search corresponds with title and track playback time. It is not compatible chapter playback time.
- · Search mode may not operate depending on the disc.



Memorizing Locations You Want to Replay (Marker Function) BD DVD-V DVD-A DVD SD DivX

You can attach a marker to a location you want to view or hear again, so that playback begins at that location.

During playback, press SEARCH button, and then select "Marker".

The search mode setting bar is displayed at the top of the



2 Use ◀, ▶ buttons to select the number.



* Numbers you have already set will be displayed as " 🗸 "

3 Press ENTER button at the location you want to memorize.

The location is registered for the selected marker number.

* The elapsed playing time at the set location is



☐ To Play Back Memorized Locations

Use ◀, ▶ buttons to select the marker number, then press ENTER button.

□ To erase markers

Select the number you want to erase, and then press CLEAR button.

☐ To erase all markers

Select "AC" and press ENTER button.



- · Subtitles may not appear depending on the locations you have
- The markers you have set will be erased if you turn the power to standby or eject the disc.
- The marker function does not operate across titles and groups.
- Marker search can only be performed during playback.



During playback, press ◀◀ or ▶▶ button. • The fast forward/fast reverse speed changes

- each time the button is pressed.
- · Speed varies with the disc and file.
- ※ Resume normal playback by pressing ▶ button.





SEA9CH PROOF

- · You cannot fast forward/fast reverse across files or tracks during program or random playback.
- Fast forward/fast reverse may be disabled with some DivX® files.
- · Audio is not output during fast forward/fast reverse of a BD or DVD

Step-by-Step Playback

BD DVD-V DivX Press II button during pause.

The disc advances frame by frame each time the ※ Resume normal playback by pressing ▶ button.



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button is pressed.

- · Step-by-step reverse playback is not available with the UD9004.
- · If the video is shaky during step-by-step playback, stop playback, press SET UP button, then on the GUI menu, change "Display Setup" - "Still Mode" - "Field" (€ page 32).



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II H

Slow Forward/Slow Reverse Playback

Press ◀◀, ▶▶ buttons during pause.

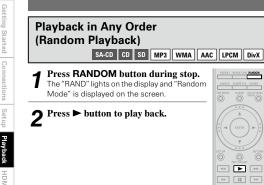
The speed changes each time the button is

* The speed of the slow reverse playback is not

※ Resume normal playback by pressing ▶ button.



- Audio is not output during slow forward/slow reverse playback.
- · If the video is blurred during slow forward/slow reverse playback, stop playback and press SET UP button, then on the GUI menu, change "Display Setup" - "Still Mode" - "Field" (@page 32).



☐ Resuming Normal Playback Press RANDOM button during stop.



Random playback may not be enabled depending on the disc.





◀ Press REPEAT button during playback.

The repeat mode icon is displayed at the top of the screen. • The repeat mode changes each time the button is pressed.



• Press REPEAT button to select the repeat mode.

 \divideontimes To resume normal playback, press **REPEAT** button, and select "Repeat Off".



Points (A-B Repeat)

Repeat Playback Between Specified

BD DVD-A DVD-V DVD SA-CD CD SD DivX

Operations Enabled During Playback

During playback, press REPEAT A-B button at the desired starting point (A). The "A-" indicator will light on the display.

* To cancel starting point (A), press CLEAR button.

2 Press the REPEAT A-B button again at the desired ending point (P)

The "B" indicator will light on the display, and A-B repeat playback will commence.

* To resume normal playback, press REPEAT A-B button, and select "Repeat Off".

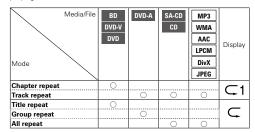




- You cannot skip title/file with A-B repeat.
- If you perform a search operation during A-B repeat playback, A-B repeat playback is cancelled.
- A-B repeat playback may not be enabled depending on the scene.
- · A-B repeat playback of MP3/WMA/AAC/JPEG/LPCM files is not available.
- · A-B repeat playback is not available during repeat playback.
- A-B repeat playback may not be enabled depending on the DivX®

About Repeat Mode

Settable repeat modes vary depending on the disc or file you are playing back.





- Some repeat modes may not be accessible depending on the disc.
- Depending on the disc, even when set to repeat playback, the disc may not return to the start of title or chapter, and may advance to the next scene.
- Repeat playback is not available during A-B repeat playback.

Playing Back in Your Preferred Order (Program Playback)

SA-CD CD

You can program up to a maximum of 20 tracks.

↑ Press PROG/DIRECT button during stop.

The "PROG" indicator lights on the display, and the program setting screen appears.



2 Enter the track numbers you want to program on the program setting screen.

0 9, +10 Entry ENTER Decision entry

3 Press ► button. Playback begins in the programmed order.

☐ Checking the Program Contents

Press ■ button setting playback.

The program setting screen will appear.



You can also check the contents of the program, which appears on the unit's display. Press **CALL** button during stop.

▶

PROG/ CRECT ☐ Erasing Programmed Tracks One by One Press CLEAR button during stop.

☐ Erasing All Programmed Contents
Press PROG/DIRECT button.

commentary audio, etc., with "Secondary".

With discs and files that have multiple audio track recording, you can change the audio during playback.

With BD, you can set sub-track audio such as interactive audio and

Switching a BD's Primary Audio/Secondary Audio

1 During playback of an Primary Audio/Secondary Audio title, press AUDIO button.

The audio number currently being played is displayed.



Press ▲, ▼ buttons, select "Primary" or "Secondary", and then press ENTER button.



- * If multiple audio items are recorded, "the current audio number/number of recorded audio items" is displayed
- *When "BD Audio Mode" is set to "HD Audio Output" (** page 33), "Secondary" audio is not output.

3 Select your desired audio language with \blacktriangle , \blacktriangledown buttons.



Operations Enabled During Playback

4 Press AUDIO button.
The setup screen disappears.



- Depending on the disc, audio switching may be restricted to operation of the disc menu. In this case, switch the audio on the disc menu.
- Be sure to set "BD Audio Mode" to "Mix Audio Output" (** page 33) for playing back secondary audio.
- Depending on the BD, even if picture-in-picture playback is set to "Off", Secondary Audio only may be output.

Audio Switching (Media Other than BD)

1 Press AUDIO button during playback.The audio number currently being played is displayed.

[Example] DVD

: Dolby Digital 3/2.1 English

2 Use ▲, ▼ buttons to select audio



3 Press AUDIO button. The setup screen disappears.



• With DVD-R/-RW with bilingual soundtrack recording, you can switch between "Main" (main audio) and "Sub" (secondary audio) or "Main/Sub" (main audio + secondary audio).

4 ▶ >>

- In CD audio mode, you can switch "Stereo", "L-ch" (left channel) or "R-ch" (right channel).
- With a DivX® file, "MP3" or "Dolby Digital" audio formats and the number of recorded audio modes are displayed. "---" appears for audio other than these.
- With DTS-CD (5.1 music disc), you cannot switch audio modes.

Changing the Subtitles and Subtitle Style

During playback of a disc or file with recorded subtitles, you can switch subtitle on/off as well as subtitle language. With BD, you can change the style of displayed subtitles.

Switching a BD's Primary Subtitle/Secondary Subtitle and Subtitle Style

Press SUBTITLE button during playback.

The subtitle number currently being played is displayed.



2 With **△**, **V** buttons, select "Primary", "Secondary" and "Style", and then press ENTER button.



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SEARCH PROGRESS

BD DVD-V SD DivX

3 Use **A**, **V** buttons to select your desired subtitle language and subtitle style.



4 Press SUBTITLE button.

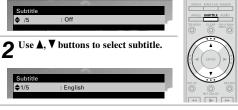
• If a disc does not include subtitles and subtitle style, "Not Available"

Operations Enabled During Playback

• Depending on the disc, subtitle switching may be restricted to operation of the disc menu. In this case, switch the subtitles on

Selecting DVD-Video and DivX® file Subtitle

The subtitle number currently being played is displayed.





With a DivX® file, the currently playing subtitle number and number of recorded subtitles are displayed, the language option is not displayed.

Switching the Angle

BD DVD-V

During playback of a BD or DVD-Video recorded with several camera angles, you can change the angle.

◀ Press ANGLE button during playback.

The angle number currently being played is displayed.



Use \blacktriangle , \blacktriangledown buttons to select angle.



3 Press ANGLE button.
The setup screen disappear The setup screen disappears.



Angle changing may be restricted, depending on the disc.

Changing the Brightness of the **Display (Dimmer Control)**

Press DIMMER button.

The display brightness each time the button is pressed.







Even when "Off" is selected, the status of operations that are performed appears momentarily on the display if "Display Setup" - "Temporary Display" on the GUI menu is set to "On" (@page 32).

HDMI Control Function

When you make an HDMI connection with a TV or AV Amp compatible with UD9004 and HDMI control functions, you can perform the following operations by setting the HDMI control function of each

- ☐ TV or AV Amp power is turned on by operating the UD9004, and functions change with UD9004
- ☐ Turning off the TV's power turns the UD9004's power to standby.
- ☐ Operating the UD9004 via the TV's remote

(When the TV's remote control has player operation buttons)

NOTE

- The HDMI control function controls operations of a TV that is compatible with the HDMI control function. Make sure that the TV and HDMI are connected when you perform HDMI control.
- Some functions may not operate depending on the connected TV or AV Amp. Check the owner's manual of each device for details beforehand.
- When "Other Setup" "Power Saving" on the GUI menu is set to "Power Saving Standby" or "Normal Standby" (@page 32), the player's power cannot be turned on using the HDMI control
- When "HDMI Setup" "HDMI Control" "Power Off Control" on the GUI menu is set to "Off" (@page 26), the UD9004 is not set to standby even if the connected device is in the standby mode.

Set the HDMI output terminal corresponding with the HDMI control function.

On the GUI menu, set "HDMI Setup" - "HDMI Control" (@page

- * The HDMI control function will work only on one of the 2 HDMI output terminals on the UD9004.
- **1** Turn the power on for all the equipment connected by
- **3** Set the HDMI control function for all equipment connected by HDMI cable.

On the GUI menu, set the UD9004 with "HDMI Setup" - "HDMI Control" (Tp page 26).

- * Please refer to the owner's manual as regards setting of connected
- * Carry out Steps 2 and 3 should any of the equipment be
- **4** To ensure that the UD9004's HDMI video output is projected on the TV screen, change the input function of the TV and AV Amp.
- **■** When you turn the TV's power to standby, check that The power of the UD9004 and AV Amp also goes on standby.



If the HDMI control function does not operate properly, check the following points

- Is the TV or AV Amp compatible with the HDMI control function?
- Is the setting of the UD9004's HDMI output terminal correct? (Step
- Are the HDMI control function settings of all equipment correct? (Step 3)
- · After setting, did you add another HDMI device connection or make any changes in the connections? In this case, perform setting

Other Information

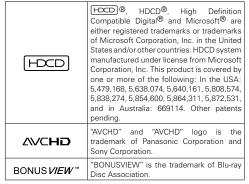
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Language Code List

	Language	Code
A	Abkhazian	4748
	Afar	4747
	Afrikaans	4752
	Albanian	6563
	Amharic	4759
	Arabic	4764
	Armenian	5471
	Assamese	4765
	Aymara	4771
	Azerbaijani	4772
В	Bashkir	4847
	Basque	5167
	Bengali;Bangla	4860
	Bhutani	5072
	Bihari	4854
	Bislama	4855
	Breton	4864
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	Burmese	5971
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	Chinese	7254
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	Croatian	5464
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	Estonian	5166
F	Faroese	5261
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	Finnish	5255
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	Frisian	5271
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	Hindi	5455
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	Inupiak	5557
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J	Japanese	5647
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	Twi	6669
U	Ukrainian	6757
	Urdu	6764
	Uzbek	6772
٧	Vietnamese	6855
	Volapuk	6861
W	Welsh	4971
	Wolof	6961
	Xhosa	7054
Υ	Yiddish	5655
	Yoruba	7161
Z	Zulu	7267

Country Code List

	Country	Code
Δ.	AFGHANISTAN	AF
4	ÅI AND ISI ANDS	AX
	ALAND ISLANDS ALBANIA	AL
		DZ
	ALGERIA	AS
	AMERICAN SAMOA	AD AD
	ANDORRA	AO
	ANGOLA	AU
	ANGUILLA	AO
	ANTARCTICA ANTIGUA AND BARBUDA	AG
		AM
	ARMENIA	AW
	ARUBA	AVV
_	AZERBAIJAN	BS
В	BAHAMAS	
	BAHRAIN	BH BD
	BANGLADESH	
	BARBADOS	BB
	BELARUS	BY
	BELIZE	BZ
	BENIN	BJ
	BERMUDA	BM
	BHUTAN	BT
	BOLIVIA	BO BA
	BOSNIA AND HERZEGOVINA	
	BOTSWANA	BW
	BOUVET ISLAND BRITISH INDIAN OCEAN	BV
	TERRITORY	IO
	BRUNEI DARUSSALAM	BN
	BUI GARIA	BG
	BURKINA FASO	BF
	BURUNDI	BI
2	CAMBODIA	KH
	CAMEROON	CM
	CAPE VERDE	CV
	CAYMAN ISLANDS	KY
	CENTRAL AFRICAN	
	REPUBLIC	CF
	CHAD	TD
	CHRISTMAS ISLAND	CX
	COCOS (KEELING) ISLANDS	CC
	COMOROS	KM
	CONGO	CG
	CONGO, THE DEMOCRATIC	CD
	REPUBLIC OF THE	
	COOK ISLANDS	CK
	COSTA RICA	CR
	CÔTE D'IVOIRE	CI
	CROATIA	HR

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	Country	Code
	CUBA	CU
	CYPRUS	CY
	CZECH REPUBLIC	CZ
D	DJIBOUTI	DJ
	DOMINICA	DM
	DOMINICAN REPUBLIC	DO
Ε	ECUADOR	EC
	EGYPT	EG
	EL SALVADOR	SV
	EQUATORIAL GUINEA	GQ
	ERITREA	ER
	ESTONIA	EE
	FTHIOPIA	ET
F	FALKLAND ISLANDS	FIZ
•	(MALVINAS)	FK
	FAROE ISLANDS	FO
	FIJI	FJ
	FRENCH GUIANA	GF
	FRENCH POLYNESIA	PF
	FRENCH SOUTHERN	TF
	TERRITORIES	
G	GABON	GA
	GAMBIA	GM
	GEORGIA	GE
	GHANA	GH
	GIBRALTAR	GI
	GREENLAND	GL
	GRENADA	GD
	GUADELOUPE	GP
	GUAM	GU
	GUATEMALA	GT
	GUERNSEY	GG
	GUINEA	GN
	GUINEA BISSAU	GW
	GUYANA	GY
Н	HAITI	HT
	HEARD ISLAND AND	НМ
	MCDONALD ISLANDS	11141
	HOLY SEE (VATICAN CITY	VA
	STATE)	HN
	HONDURAS HUNGARY	HU
		IS
ı	ICELAND IRAN, ISLAMIC REPUBLIC	15
	OF	IR
	IRAO	IO
	ISLE OF MAN	IM
	ISRAFI	II
J	JAMAICA	JM
J	JERSEY	JE
	JEHJET	JL

	Country	Code
	JORDAN	JO
Κ	KAZAKHSTAN	KZ
	KENYA	KE
	KIRIBATI	KI
	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF	KP
	KUWAIT	KW
	KYRGYZSTAN	KG
L	LAO PEOPLE'S	ΙA
	DEMOCRATIC REPUBLIC	
	LATVIA	LV
	LEBANON	LB
	LESOTHO	LS
	LIBERIA	LR
	LIBYAN ARAB JAMAHIRIYA	LY
	LIECHTENSTEIN	LI
	LITHUANIA	LT
M	MACAO	MO
	MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF	MK
	MADAGASCAR	MG
	MALAWI	MW
	MALDIVES	MV
	MALI	ML
	MALTA	MT
	MARSHALL ISLANDS	MH
	MARTINIQUE	MQ
	MAURITANIA	MR
	MAURITIUS	MU
	MAYOTTE	YT
	MICRONESIA, FEDERATED STATES OF	FM
	MOLDOVA	MD
	MONACO	MC
	MONGOLIA	MN
	MONTENEGRO	ME
	MONTSERRAT	MS
	MOROCCO	MA
	MOZAMBIQUE	MZ
	MYANMAR	MM
N	NAMIBIA	NA
	NAURU	NR
	NEPAL	NP
	NETHERLANDS ANTILLES	AN
	NEW CALEDONIA	NC
	NICARAGUA	NI
	NIGER	NE
	NIGERIA	NG
	NIUE	NU

	Country	Code
	NORFOLK ISLAND	NF
	NORTHERN MARIANA	MP
	ISLANDS	
0	OMAN	OM
Ρ	PALAU	PW
	PALESTINIAN TERRITORY, OCCUPIED	PS
	PANAMA	PA
	PAPUA NEW GUINEA	PG
	PARAGUAY	PY
	PERU	PF
	PITCAIRN	PN
	PUERTO RICO	PR
Q	QATAR	QA
R	RÉUNION	RE
•••	ROMANIA	RO
	RWANDA	RW
s	SAINT BARTHÉLEMY	BL
٠	SAINT HEI ENA	SH
	SAINT KITTS AND NEVIS	KN
	SAINT LUCIA	LC
	SAINT MARTIN	MF
	SAINT PIERRE AND	PM
	MIQUELON	PIVI
	SAINT VINCENT AND THE GRENADINES	VC
	SAMOA	WS
	SAN MARINO	SM
	SAO TOME AND PRINCIPE	ST
	SAUDI ARABIA	SA
	SENEGAL	SN
	SERBIA	RS
	SEYCHELLES	SC
	SIERRA LEONE	SL
	SLOVAKIA	SK
	SLOVENIA	SI
	SOLOMON ISLANDS	SB
	SOMALIA	SO
	SOUTH AFRICA SOUTH GEORGIA AND	ZA
	THE SOUTH SANDWICH ISLANDS	GS
	SRI LANKA	LK
	SUDAN	SD
	SURINAME	SR
	SVALBARD AND JAN MAYEN	SJ
	SWAZILAND	SZ
	SYRIAN ARAB REPUBLIC	SY

	Country	Code
Г	TAJIKISTAN	TJ
	TANZANIA, UNITED	T7
	REPUBLIC OF	
	TIMOR LESTE	TL
	TOGO	TG
	TOKELAU	TK
	TONGA	TO
	TRINIDAD AND TOBAGO	TT
	TUNISIA	TN
	TURKEY	TR
	TURKMENISTAN	TM
	TURKS AND CAICOS ISLANDS	TC
	TUVALU	TV
ı	UGANDA	UG
•	UKRAINE	UA
	UNITED ARAB EMIRATES	AF
	UNITED STATES MINOR	
	OUTLYING ISLANDS	UM
	URUGUAY	UY
	UZBEKISTAN	UZ
′	VANUATU	VU
	VATICAN CITY STATE	VA
	VENEZUELA	VE
	VIET NAM	VN
	VIRGIN ISLANDS, BRITISH	VG
	VIRGIN ISLANDS, US	VI
٧	WALLIS AND FUTUNA	WF
	WESTERN SAHARA	EH
1	YEMEN	YE
Z	ZAMBIA	ZM
	ZIMBABWE	ZW

Explanation of Terms

Numerics

4:3 letterbox

When a wide (16:9) disc is played back by connecting a 4:3 TV and the UD9004, this function plays back the image with black area at the top and bottom.

4:3 pan-and-scan

When a wide (16:9) disc is played back by connecting a 4:3 TV and the UD9004, this function cuts left and right of the played back image to the 4:3 size according to the disc's control information.

Anamorphic lens

This lens enlarges the 16 : 9 image to 2.35 : 1 image when projecting the image using a projector.

Aspect ratio

This is the length and width ratio of the TV screen. The conventional TV's screen ratio is 4:3 and the wide screen TV's screen ratio is

BD-J (Java)

With BD-Videos, there are fun software with more interactive functions (games) using Java applications.

This expresses the read amount per 1 second of video/audio data recorded in a disc.

Blu-ray disc

This is one-side 1 layer disc having 25GB capacity and can record high vision video movie and games.

Bonus View

Special images for BD-Videos. It includes comment of the movie director, simultaneously developing sub-story, and images from different angles

Chapter

This is a break intended by a producer who organizes the title of BD or DVD-Video. The chapter search function searches the beginning of this break

Deep Color

This technology allows expression of more number of colors than the conventional 8 bits and can reproduce colors close to natural ones without color streak

DHCP (Dynamic Host Configuration Protocol)

This mechanism automatically perform network configuration such as IP address for network devices including UD9004, PC, and broadband router.

Dolby Digital (5.1ch Surround)

This is a stereophonic effect developed by Dolby Laboratories. This is maximum 5.1 channels of independent multi-channel audio system. **Dolby Digital Plus**

This is an extension version of Dolby Digital and is a high sound quality digital audio technology adopted as an optional audio for Blu-

Dolby TrueHD

This lossless coding technology is adopted as optional audio for Bluray disc and supports 7.1 channels.

Downmix

This function converts the number of channels of surround audio to less number of channels and plays back.

This is an abbreviation of Digital Theater System, which is a digital audio system developed by DTS. When playing back audio by connecting this system with a device such as DTS amplifier, accurate sound field position and realistic sound effect as if you are in a movie theater can be obtained.

DTS-HD

This audio technology provides higher sound quality and enhanced functionality than the conventional DTS and is adopted as an optional audio for Blu-ray disc. This technology supports multi-channel, high data transfer speed, high sampling frequency, and lossless audio playback. Maximum 7.1 channels are supported in Blu-ray disc.

Dynamic range

The difference between the maximum undistorted sound level and the minimum sound level that is discernible above the noise emitted by the device

Finalise

This is processing that enables playing back of disc of BD/DVD/CD, which was recorded using a recorder, by other players.

When transmitting digital signals between devices, this copyright protection technology encrypts the signals to prevent content from being copied without authorization.

This is an abbreviation of High-Definition Multimedia Interface, which is an AV digital interface that can be connected to a TV or amplifier. Video signal and audio signal can be connected using 1 cable.

Interlacing (interlaced scanning)

н

This conventional method used to project images on a TV displays 1 frame of image in half and half, respectively as 2 fields.

Interactive audio

Audio such as click sound that is generated during operation and is recorded in the title of BD-Videos.

This is an abbreviation of Low Frequency Effect, which is an output channel that emphasizes low frequency effect sound. Surround audio is intensified by outputting 20Hz to 120Hz deep bass.

This signal is uncompressed PCM (Pulse Code Modulation) signal. This is the same system as the CD audio but this uses 192kHz, 96kHz, and 48kHz sampling frequencies in BD or DVD and provides higher sound quality than CD.

This is an abbreviation of Moving Picture Experts Group, which is an international standard of the moving picture audio compression method. Images of BD and DVD are recorded using this method.

Picture-in-picture

This BD-Video function allows you to view making or commentary scenes in the secondary video while viewing the main story in the primary video.

Popup menu

This menu recorded in BD software. While playing back a BD, this menu can be displayed on the front of the screen and can be operated.

Primary audio

This audio signal is recorded in the main story in BD-Video.

Progressive (sequential scanning)

This is a scanning system of video signal that displays 1 frame of video as one image. Compared to the interlace system, this system provides images with less flickering and bleeding.

Depending on the age of the viewer, this function restricts playing back of BD-Video or DVD-Video. UD9004 can be set to restrict viewing. in 0 to 254 level for BD-Video, and 1 to 8 level for DVD-Video.

Region code

Rating

This code indicates country or region where the BD or DVD-Video can be played back.

Secondary audio

This is audio signals of comment of movie director and other data recorded in the bonus view of BD-Video

This is the unit of content that consists of chapters of BD or DVD -Video. Some BD or DVD-Video may include multiple titles.

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Troubleshooting

If a problem should arise, first check the following:

- 1. Are the connections correct?
- 2. Is the set being operated as described in the owner's manual?
- 3. Are the other components operating properly?

If this unit does not operate properly, check the items listed in the table below. Should the problem persist, there may be a malfunction.

In this case, disconnect the power immediately and contact your store of purchase.

Symptom	Cause / Countermeasure	Page
Power does not turn on.		22 - - 3, 9
Unable to play back bonus view.	Does the SD Memory Card has more than 1GB of available space? Has the SD Memory Card been initialized by the UD9004? Was the SD Memory Card inserted while the power of the unit is on. (Insert the SD Memory Card while the UD9004 is in the standby status.)	4, 38 32 4, 38
Picture does not appear.	Switch the TV's input setting to the external input connected to the player. Is the Pure Direct function set to "On"? Set to "Off". Also, is "Pure Direct Setup" – "Video Out" on the GUI menu set to "Off" at the "User Preset 1" or "User Preset 2" setting? Set it to "On". Check the connection of the video/S-Video/component video cable. Does the "Video Setup" – "Component Resolution" setting on the GUI menu match the connected device's resolution? Set it so that it matches.	- 30, 40 19 26
Video and audio are not output with HDMI connection.	Is the "HDMI" indicator of the display of the UD9004 lighting? Is the Pure Direct function set to "On"? Set to "Off". Also, is "Pure Direct Setup" – "Video Out" on the GUI menu set to "Off" at the "User Preset 1" or "User Preset 2" setting? Set it to "On". Check whether the connected display device or other device supports HDCP. This unit will not output a video signal unless the other device supports HDCP. See the owner's manual of your TV,	13, 14 8 30, 40
	AV Amp, etc. Check that the setting of the HDMI video resolution supports the resolution of the connected device. When set to "Auto", UD9004 makes the setting automatically. Check that the HDMI mode setting matches the connected content. The connection method of each HDMI mode is different.	15 13, 14

Symptom	Cause / Countermeasure	Page
HD audio is not output.	Set "BD Audio Mode" to "HD Audio Output".	33
Picture is not displayed or is	The picture may be slightly disturbed directly after fast-forwarding or reversing. This is not a malfunction.	-
disturbed. Picture of a BD-Video or DVD-Video disc is in black and white.	 Connect the UD904's video/S-Video/component video output either directly to the TV or to the TV via the AV Amp. Do not connect via a VCR (video cassette recorder). Some discs include copy prohibit signals, and when such discs are played via a VCR the copy guard system may cause the picture to be disturbed. Is a disc that is not compatible with the player or a disc with a different region number loaded? (This player supports region code "B" for BD-Video discs." "2" or "ALL" for DVD-Video discs.) 	19
No sound is heard or	• Check the devices whose audio is connected and the speaker	11 22
the sound is hard to hear.	connections. Is the power of devices whose audio is connected turned on? Is the input selection set to the input to which the UD9004 is connected?	-
	Is the audio output properly selected?	13 21
Picture freezes momentarily during playback.	When the disc is scratched or contaminated with fingerprints, the disc may not be played back correctly. Clean the disc or replace with a non-scratched disc.	6
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	There may be a problem with the data recorded on the disc.	-
Playback does not start even when ▶ is	1 to 2 hours with the power off.)	3
pressed, or starts but stops immediately.	When the disc is scratched or contaminated with fingerprints, the disc may not be played back correctly. Clean the disc or replace with a non-scratched disc.	6
	Is the disc loaded upside-down? Load the disc properly, with the side containing the signals to be played facing down.	6
0.1.33	• Is an unplayable disc loaded?	3, 4
Subtitles are not displayed.	files that do not contain subtitles.	48
	• Is the subtitle setting "Off"? Use a disc menu or to set the SUBTITLE button displayed subtitle.	25
SD Memory Card	The format of the card does not match to this unit or the card is not compatible.	32
Samot be read.	Is the playback media mode set to "SD CARD MODE"? Select "SD CARD MODE" at SD/DISC button.	36

Symptom	Cause / Countermeasure	Page
No return to start-up screen when disc is removed.	when disc is awhile, then turn the power back on.	
The set cannot be operated with the	Aim the remote control directly at infrared sensor window on the front of the unit.	7
remote control unit.	Operate within a distance of 7 meters from the remote control sensor.	7
	Remove the obstacle.	_
	Replace the batteries with new ones.	7
	• Insert the batteries in the proper direction, checking the \oplus and \ominus marks.	7
	Make the signal code of the remote control match to the signal code of the unit.	7
Buttons do not work		-
or the unit stops responding.	The safety protection device may be activated. Unplug the power cord once, and wait for 5-10 seconds and then plug it in again. Refer to the instructions of the disc.	_
	• Herer to the instructions of the disc.	_
Playable disc is not read.	 The pickup lens may be dirty. Before requesting servicing, try cleaning the laser pickup with a commercially available lens cleaner. (Do not use a cleaner with brush because it may damage the lens.) 	-
Angle does not I • If a BD-Video or DVD-Video does not record multiple angles, angle cannot be switched. Also, multiple angles may be recorded for specific scenes.		49
Playback does not start when the title is selected. • Playback may be prohibited by the viewing restriction setting. Check the "Ratings" setting on the GUI menu.		31
The password for rating level has been forgotten.	On the GUI menu, perform the "Other Setup" – "Initialize" procedure.	33

- Some function may not be used in some operation status and this is not failure of the unit. Read the description in this Owner's Manual for details on correct operations.
- The volume may differ from disc to disc. This is due to the differences in how the signals are recorded on the disc, and is not a malfunction.
- During programmed playback, it is not possible to perform random playback or to start playback from the desired track or file.
- Some functions are prohibited on some discs.

Specifications

□ Audio performance

Video output :

Signal format :

Applicable discs /memory cards: (1) BD-Video discs:

12 cm 1 side 1 layer, 12 cm 1 side 2 layers

(2) DVD-Video / DVD-Audio discs :

12 cm 1 side 1 layer, 12 cm 1 side 2 layers / 12 cm 2 sides 2 layers (1 side 1 layer) 8 cm 1 side 1 layer, 8 cm 1 side 2 layers / 8 cm 2 sides 2 layers (1 side 1 layer)

(3) Super Audio CDs:

12 cm 1 layer / 12 cm 2 layer / 12 cm Hybrid

(4) Compact Discs (CD-DA): 12 cm / 8 cm discs (5) Memory cards:

SD Memory Card / SDHC Memory Card / miniSD Card /

microSD Card

S-Video output : Y output level: 1Vp-p (75 Ω/ohms)

C output level: 0.286 Vp-p Output terminal: S-Video, 1 set Output level: 1Vp-p (75 Ω/ohms)

Output terminal : Pin-iack, 1 set Component video output : Y output level: 1Vp-p (75 Ω/ohms)

Pb/Cb output level / Pr/Cr output level : 0.648 Vp-p (75 Ω/ohms)

Output terminal: Pin-jack, 1 set

HDMI output : Output terminal: 19-pin HDMI terminals, 2 sets HDMI ver. 1.3a

(Deep Colour, Dolby Digital Plus, Dolby TrueHD, DTS-HD) Analog audio output :

Output level: 2 Vrms (10 kΩ/kohms)

2 channels output terminal: XLR terminal, 1 set 7.1 channels output terminal : Pin-jack, 1 set

Audio output characteristics : (1) Frequency response

① BD (Multi linear PCM) : 2Hz 22kHz (48kHz sampling)

: 2Hz 44kHz (96kHz sampling) : 2Hz 88kHz (192kHz sampling)

② DVD (Multi linear PCM): 2Hz 22kHz (48kHz sampling) : 2Hz 44kHz (96kHz sampling)

: 2Hz 88kHz (192kHz sampling)

: 2Hz 100kHz 3 Super Audio CD (4) CD : 2Hz 20kHz

(2) S/N ratio: 125dB

(3) Total harmonic distortion: 1kHz 0.0008%

(4) Dynamic range: 112dB

Digital audio output : Optical digital output: Optical connector, 1 set

Coaxial digital output: Pin jack, 1 set

□ General Power supply:

AC 120 V, 60 Hz Power consumption: 88 W

(Power Saving") • When in Power Saving Standby: 0.3 W

• When in Normal Standby: 0.8 W • When in HDMI Control Mode :

4 15 W (Changes according to connection status, etc.)

• When in Quick Start Mode :

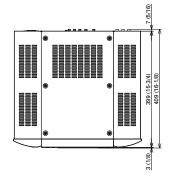
15 30 W (Changes according to connection status, etc.)

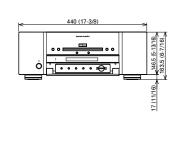
☐ Remote control unit

Infrared pulse Remote control type:

Batteries : AAA/R03 Type (three batteries)

☐ Dimensions (Unit: mm (inch))





☐ Weight: 19.2kg

* For purposes of improvement, specifications and design are subject to change without notice.

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The former contains code derived from the library. whereas the latter must be combined with the library in order to run

2

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code for the work may be a derivative work of the

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□ Exhibit-C

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☐ Exhibit-E

The Independent JPEG Group's JPEG software README for release 6b of 27 Mar 1998

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Serious users of this software (particularly those incorporating it into larger programs) should contact UG at jpeg info@uunet uu net to be added to our electronic mailing list Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane. Philip Gladstone Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips Davide Rossi Guido Vollheding Ge Weijers and other members of the Independent JPEG Group

IJG is not affiliated with the official ISO JPEG standards committee

DOCUMENTATION ROADMAP

This file contains the following sections: OVERVIEW

General description of JPEG and the IJG software

LEGAL ISSUES Copyright, lack of warranty, terms of distribution REFERENCES Where to learn more about

JPFG

ARCHIVE LOCATIONS Where to find newer versions of this software

RELATED SOFTWARE Other stuff you should get FILE FORMAT WARS Software *not* to get Plans for future IJG releases TO DO

Other documentation files in the distribution are: User documentation

install doc How to configure and install the IJG software usage doc Usage instructions for cipeg,

djpeg, jpegtran, rdjpgcom, and wrjpgcom

Unix style man pages for programs (same info as usage doc)

wizard doc Advanced usage instructions for PEG wizards only change log Version to version change highlights

Programmer and internal documentation:

* 1

libjpeg doc How to use the JPEG library in

your own programs
example c Sample code for calling the JPEG library

structure doc Overview of the JPEG library's internal structure

filelist doc Road map of IJG files
coderules doc Coding style rules please read

coderules doc Coding style rules please reac if you contribute code Please read at least the files install doc and usage doc

Useful information can also be found in the JPEC FAQ (Frequently Asked Questions) article See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code

This package contains C software to implement JPEG image compression and decompression method for full color and gray scale images JPEG is intended for compressing real world's scenes; line drawings, cartoons and other non realistic images are not its strong suit JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended sequential, and progressive

compression processes Provision is made for supporting all variants of these

processes, although some uncommon parameter settings aren't implemented yet

For legal reasons, we are not distributing code for the arithmetic coding

variants of JPEG, see LEGAL ISSUES We have made no provision for supporting

provision for supporting the hierarchical or lossless processes defined in the standard

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file f

The library is intended to be reused in other applications In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "dipgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in IFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful in particular, the software is not intended to be read as a tutorial on JPEG (See the REFERENCES section for introductory material) Rather, it is intended to be reliable, portable, industrial strength code We do not claim to have achieved that goal in every aspect of the software, but we strive for 1

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The Unix configuration script "configure" was produced with GNU Autoconf

It is copyright by the Free Software Foundation but is freely distributable

The same holds for its supporting scripts (config guess, config sub, Itconfig, Itmain sh) Another support script, install sh, is copyright by MIT but is also freely distributable

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software

(Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it)

So far as we are aware, there are no patent restrictions on

the remaining code
The JJG distribution formerly included code to read and

The IJG distribution formerly included code to read and write GIF files
To avoid entanglement with the Unisys LZW patent, GIF

reading support has been removed altogether, and the GIF writer has been simplified to produce 'uncompressed GIFs' This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated GIF(sm) is a Service Mark property of CompuServe Incorporated "REFERENCES

We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software

The best short technical introduction to the JPEG compression algorithm is

Wallace, Gregory K "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol 34 no 4), pp 30 44

(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp uu net/graphics//peg/wallace ps gz The file (actually a preprint for an article that appeared in IEEE Trans Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean loup Gailly, published by M&T Books (New York), 2nd ed 1996, ISBN 158851 434 1 This book provides good explanations and example C code for a multitude of compression methods including JPEG It is an excellent source if you are comfortable reading C code but don't know much about data compression in general The book's JPEG sample code is far from industrial strength, but when you are ready to look at a full implementation, vou've out one here

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B Pennebaker and Joan L Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0 442 01272 1 Price US\$59.95 638 pn

The book includes the complete text of the ISO JPEG standards (DIS 10918 1 and draft DIS 10918 2)

This is by far the most complete exposition of JPEG in existence, and we highly recommend it

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material)

In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642 4900, or from Global Engineering Documents at (800) 854 7179 (ANSI doesn't take credit card orders, but Global does) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods Part 1 is titled "Digital Compression and Coding of Continuous tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918 1, ITUT T81 Part 2 is titled "Digital Compression and Coding of Continuous tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918 2. ITUT T83

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918 3 and ITUT T84 IJG currently does not support any Part 3 extensions

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1 02. A copy of the JEIF spec is available from:

Literature Department C Cube Microsystems, Inc 1778 McCarthy Blvd Milpitas, CA 95035 phone (408) 944 6300, fax (408) 944 6314 A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt gz, but it is missing the figures

The TIFF 6 0 file format specification can be obtained by FTP from ftp://ftp sgi com/graphics/tiff/TIFF6 ps gz The JPEG incorporation scheme found in the TIFF 6 0 spec of 3 June 92 has a number of serious problems

IJG does not recommend use of the TIFF 6 0 design (TIFF Compression tag 6)

Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7) Copies of this Note can be obtained from ftp sqi com or from ftp:// ftp.uu.net/graphics/ipeg/ It is expected that the next revision of the TIFF spec will replace the 6 0 JPEG design with the Note's design

Although IJG's own code does not support TIFF/JPEG. the free libtiff library uses our library to implement TIFF/ JPEG per the Note libtiff is available from ftp://ftp.sqi com/graphics/tiff/

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp uu net (Internet address 192 48 96 9) The most recent released version can always be found there in directory graphics/ ipeq. This particular version will be archived as ftp://ftp uu net/graphics/ipeg/ipegsrc v6b tar gz

If you don't have direct Internet access, UUNET's archives. are also available via UUCP: contact help@uunet.uu.net for information on retrieving files that way

Numerous Internet sites maintain copies of the UUNET files. However only ftp up net is guaranteed to have the latest official version

You can also obtain this software in DOS compatible "zip" archive format from the SimTel archives (ftp://ftp simtel net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools" Again, these versions may sometimes lag behind the ftp uu net release

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution The FAQ is posted every two weeks to Usenet newsgroups comp graphics misc, news answers. and other groups

It is available on the World Wide Web at http://www.faqs org/fags/ipeg fag/ and other news answers archive sites. including the official news answers archive at rtfm mit ftp://rtfm mit edu/pub/usenet/news answers/jpeg

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM format image files In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive wustl edu/graphics/graphics/ packages/NetPBM/

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non Unix machine

A different free JPEG implementation, written by the PVRG group at Stanford.

is available from ftp://havefun stanford edu/pub/jpeg/ This program is designed for research and experimentation rather than production use: it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify Also, the PVRG code supports lossless JPEG, which we do not (On the other hand, it doesn't do progressive JPEG)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library

The root of the problem is that the ISO JPEG committee failed to specify a concrete file format Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files)

The file format we have adopted is called JFIF (see REFERENCES) This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard JFIF is a minimal or "low end" representation

We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image TIFF/JPEG is fairly new and not yet widely supported, unfortunately

The upcoming JPEG Part 3 standard defines a file format called SPIFF

SPIFF is interoperable with JFIF, in the sense that most JEIF decoders should be able to read the most common variant of SPIFF SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de facto standard IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not

(In any case, our decoder will remain canable of reading JEIE indefinitely)

Various proprietary file formats incorporating JPEG compression also exist

We have little or no sympathy for the existence of these formats. Indeed one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files Don't use a proprietary file format!

The major thrust for v7 will probably be improvement of visual quality

The current method for scaling the quantization tables is known not to be very good at low Q values We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality vs file size performance without sacrificing compatibility

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions principally, variable quantization and the SPIFF file format

As always, speeding things up is of great interest Please send bug reports, offers of help, etc to jpeg info@ uunet uu net

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glennrp@users sourceforge net August 15, 2004

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4 Contacts

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· freetype@freetype org

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devel@freetype org

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc

http://www.freetvpe.org

Holds the current FreeType web page, which will allow you to download our latest development version and read online documentation

You can also contact us individually at:

David Turner <david turner@freetype org>
Robert Wilhelm <robert wilhelm@freetype org>
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Appreciation Time!!!! There are far too many people to try to thank them all; many people have contributed to the development of Kerberos V5 This is only a partial listina

Thanks to Kevin Coffman and the CITI group at the University of Michigan for providing patches for implementing RPCSEC_GSS authentication in the RPC lihrary

Thanks to Derrick Schommer for reporting multiple memory leaks

Thanks to Quanah Gibson Mount of Stanford University for helping exercise the thread support code

Thanks to Michael Tautschnig for reporting the heap buffer overflow in the password history mechanism [MITKRB5] SA 2004 0041

Thanks to Wyllys Ingersoll for finding a buffer size problem in theRPCSEC_GSS implementation

Thanks to the members of the Kerberos V5 development team at MIT, both past and present: Danilo Almeida, Jeffrey Altman, Jay Berkenbilt, Richard Basch, Mitch Berger, John Carr Don Davis Alexandra Ellwood Nancy Gilman Matt Hancher, Sam Hartman, Paul Hill, Marc Horowitz, Eva Jacobus, Miroslav Jurisic, Barry Jaspan, Geoffrey King, John Kohl, Peter Litwack, Scott McGuire, Kevin Mitchell, Cliff Neuman, Paul Park, Ezra Peisach, Chris Provenzano, Ken Raeburn, Jon Rochlis, Jeff Schiller, Jen Selby, Brad Thompson, Harry Tsai, Ted Ts'o, Marshall Vale, Tom Yu Very special thanks go to Marshall Vale, our departing

Over the past few years. Marshall has been extremely valuable to us as mentor, advisor, manager, and friend Marshall's devotion as a champion of Kerberos has helped our team immensely through many trials and hardships We will miss him tremendously, and we wish him the best in his future endeavors

team leader

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Printed in Japan 07/2009 541110297028M mzh-d

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Super Audio CD / Blu-Ray Disc Player UD9004

ENGLISH

BD-LIVE (BD ROM Profile 2.0) compatibility

We greatly appreciate your purchase of this Marantz product.

The UD9004 supports the BONUS VIEW function, as well as BD-LIVE (BD ROM Profile 2.0).

(The functions that can be used with BD-LIVE differ from disc to disc.)

The UD9004 can be connected to the Internet to enjoy a number of features, including additional contents such as special videos or subtitles, network games, etc.



"BD-LIVE" logo is trademark of Blu-ray Disc Association.

→ Enjoying BD-LIVE features

- The functions that can be used with BD-LIVE differ from disc to disc. For details on the functions and how to operate them, see the individual disc's on-screen displays and explanations.
- An SD card must be loaded in the UD9004 in order to save downloaded contents to use BD-LIVE functions. Use an SD card with a capacity of 1 GB or greater. Also, the SD card must be formatted on the UD9004 (See page 32 of the Owner's Manual).
- Do not remove the SD card from the UD9004 while playing a BD-LIVE compatible disc.

NOTE

- To use BD-LIVE functions, connect the UD9004 to the Internet and make the settings described below, as necessary:
- Depending on your network environment, in some cases time may be required to connect to the network or connection may not be possible.
- Insert and eject SD cards with the power in the standby mode. If the SD card inserted when the power is on, it may
 not be read.

ERANCAIS

Compatibilité BD-LIVE (BD ROM Profile 2.0)

Nous vous remercions vivement d'avoir fait l'acquisition de ce produit Marantz. Le UD9004 prend en charge la fonction BONUS VIEW, ainsi que BD-LIVE (BD ROM Profile 2.0). (Les fonctions utilisables avec BD-LIVE diffèrent d'un disque à l'autre.)

→ BD-LIVE

Vous pourrez connecter le UD9004 à l'Internet pour profiter d'un certain nombre d'options, notamment des contenus additionnels tels que des vidéos spéciales ou des sous-titres, jeux en réseau, etc.



Le logo "BD-LIVE" est une marque commerciale de Blu-ray Disc Association.

→ Profiter des options de BD-LIVE

- Les fonctions utilisables avec BD-LIVE diffèrent d'un disque à l'autre. Pour en savoir plus sur ces fonctions et sur la manière de les utiliser, consultez les indications et explications qui s'affichent à l'écran pour chaque disque.
- Vous devez charger une carte SD dans le UD9004 pour pouvoir sauvegarder les contenus téléchargés et exploiter les fonctions BD-LIVE. Utilisez une carte SD d'une capacité de 1 Go ou plus. Par ailleurs, la carte SD doit être formatée sur le UD9004 (voir page 32 de la manuel de l'utilisateur).
- Ne retirez pas la carte SD du lecteur UD9004 pendant la lecture d'un disque compatible BD-LIVE.

REMARQUE

- Pour utiliser les fonctions BD-LIVE, connectez le UD9004 à l'Internet et effectuez les réglages nécessaires décrits ci-dessous:
- Connexions "Connexion au réseau" (voir page 21 de la manuel de l'utilisateur)
- Réglages-----"Configuration réseau" (voir page 31 de la manuel de l'utilisateur)
- Selon votre environnement réseau, la connexion au réseau peut dans certains cas prendre du temps voire s'avérer impossible.
- Insérez et éjectez les cartes SD lorsque l'appareil est en veille. Si vous insérez la carte SD tandis que le lecteur est sous tension, elle peut ne pas être lue.

ESPAÑOL

Compatibilidad con BD-LIVE (BD ROM Profile 2.0)

Agradecemos que haya adquirido este producto Marantz.

La unidad UD9004 es compatible con la función BONUS VIEW y con BD-LIVE (BD ROM Profile 2.0).

Las funciones que se pueden utilizar con BD-LIVE pueden diferir de un disco a otro.

→ BD-LIVE

El UD9004 se puede conectar a internet para disfrutar de una serie de funciones, como los contenidos adicionales (vídeos especiales, subtítulos, juegos en red, etc.).



El logotipo "BD-LIVE" es una marca registrada de la Blu-ray Disc Association.

→ Cómo disfrutar de las funciones de BD-LIVE

- Las funciones que se pueden utilizar con BD-LIVE difieren de un disco a otro. Para más información sobre las funciones y cómo utilizarlas, consulte los mensajes y explicaciones en pantalla de cada disco.
- Cargue una tarjeta SD en el UD9004 si desea guardar el contenido que se haya descargado para utilizar las funciones de BD-LIVE. Utilice una tarjeta SD con capacidad de 1 GB como mínimo. Además, la tarjeta SD se tiene que haber formateado en la propia unidad UD9004 (consulte la página 32 del manual del usuario).
- No retire la tarjeta SD del UD9004 mientras se reproduce un disco compatible con BD-LIVE.

NOTA

- Para utilizar las funciones de BD-LIVE, conecte el UD9004 a internet y configure los parámetros que se detallan a continuación, según sea necesario:
- Conexiones "Conexión a la red" (consulte la página 21 del manual del usuario)
- Ajustes-----"Config. de red" (consulte la página 31 del manual del usuario)
- En función de su entorno de red, es posible que tarde más tiempo en establecer una conexión a la red, e incluso que no pueda establecer ninguna conexión.
- Introduzca y extraiga las tarjetas SD con la alimentación en modo Standby. Si la tarjeta SD se introduce con la alimentación encendida, quizás el sistema no la pueda leer.

DEUTSCH

Kompatibilität von BD-LIVE (BD ROM Profile 2.0)

Wir freuen uns, dass Sie dieses Produkt aus dem Hause Marantz gekauft haben.

Mir freuen uns, dass Sie dieses Produkt aus dem Hause Marantz gekauft haben.

Mir freuen uns, dass Sie dieses Produkt aus dem Jahren sie dem BD-LIVE (BD ROM Profile 2.0).

Die Funktionen. die mit BD-LIVE genutzt werden können. sind von Diss zu Diss unterschiedlich.)

→ BD-LIVE

Das Modell UD9004 kann mit dem Internet verbunden werden, um eine Reihe weiterer Angebote zu nutzen, z. B. spezielle Videos oder Untertitel, Netzwerkspiele usw.



"BD-LIVE" ist eine Marke der Blu-ray Disc Association

□ BD-LIVE Funktionen nutzen

- Die Funktionen, die mit BD-LIVE genutzt werden k\u00f6nnen, sind von Disc zu Disc unterschiedlich. Einzelheiten zu den Funktionen und zu deren Bedienung finden Sie in den OSD-Displaymeldungen und in den Erl\u00e4uterungen der einzelnen Disc.
- Um die heruntergeladenen Inhalte für die BD-LIVE Funktionen nutzen zu können, muss sich im UD9004 eine SD-Karte befinden. Verwenden Sie eine SD-Karte mit 1 GB kapazität oder mehr. Darüber hinaus muss die SD-Karte vom UD9004 formatiert werden (Bedienungsanleitung finden Sie auf Seite 32).
- Während der Wiedergabe einer BD-LIVE kompatiblen Disc darf die SD-Karte nicht aus dem UD9004 entfernt werden.

HINWEIS

- Zur Nutzung der BD-LIVE Funktionen verbinden Sie den UD9004 mit dem Internet und nehmen die unten erläuterten Einstellungen vor, soweit erforderlich:
- Anschlüsse "Verbindung mit dem Netzwerk" (Bedienungsanleitung finden Sie auf Seite 21) Einstellungen "Netzwerkeinstellungen" (Bedienungsanleitung finden Sie auf Seite 31)
- Je nach Netzwerkumgebung dauert die Verbindung zum Netzwerk etwas länger. Andernfalls ist eine Verbindung eventuell nicht möglich
- Zum Einlegen und Auswerfen von SD-Karten muss das Gerät auf Standby-Modus umgeschaltet werden. Falls die SD-Karte bei eingeschaltetem Gerät eingeführt wird, wird sie nicht ausgelesen.

NEDERLANDS

BD-LIVE (BD ROM Profile 2.0) compatibiliteit

We zijn bijzonder blij met uw aanschaf van dit Marantz-product.

De UD9004 ondersteunt de BONUS VIEW functie, en het BD-LIVE (BD ROM Profile 2.0).

(De functies die kunnen worden gebruikt met de BD-LIVE verschillen van disk tot disk.)

→ BD-LIVE

De UD9004 kan worden aangesloten op het internet om te genieten van een aantal functies, waaronder aanvullende content zoals speciale video's of ondertitels, netwerkgames etc.



Het "BD-LIVE" logo is een handelsmerk van Blu-ray Disc Association.

□ Geniet van BD-LIVE-functies

- De functies die bij de BD-LIVE kunnen worden gebruikt, verschillen van disk tot disk. Voor meer informatie over de functies en hoe u deze moet bedienen, kijkt u bij de uitleg en weergaven op het scherm van de desbetreffende disk.
- Er dient een SD-kaart te zijn geladen in de UD9004 om de gedownloade content op te slaan om de BD-LIVE-functies te gebruiken. SD-kaart van 1 GB of meer. De SD-kaart moet ook zijn geformatteerd op de UD9004 (zie blz. 32 van de gebruiksaanwijzing).
- Haal de SD-kaart niet uit de UD9004 bij het afspelen van een BD-LIVE geschikte disk.

OPMARKING

• Om BD-LIVE-functies te gebruiken dient u de UD9004 aan te sluiten op het internet en de instellingen die hieronder staan beschreven, zoals nodig te maken:

Aansluitingen····· "Verbinding maken met een netwerk" (zie blz. 21 van de gebruiksaanwijzing)

- Instellingen -------"Instelling Netwerk" (zie blz. 31 van de gebruiksaanwijzing)

 Afhankelijk van uw netwerkomgeving, kan tijd nodig zijn voor verbinding met het netwerk, anders is verbinding niet mogelijk.
- Plaats en verwijder SD-kaarten als de stand-by-modus aan staat. Als de SD-kaart wordt ingvoerd als het toestel aan staat, kan de kaart mogelijk niet worden gelezen.

ITALIANO

Compatibilità con BD-LIVE (BD ROM Profile 2.0)

Apprezziamo molto che lei abbia scelto di acquistare questo prodotto Marantz.

L'unità UD9004 supporta la funzione BONUS VIEW ed è compatibile con BD-LIVE (BD ROM Profile 2.0) (Le funzionalità utilizzabili con BD-LIVE cambiano da disco a disco).

L'unità UD9004 può essere collegata a Internet, con la possibilità di utilizzare numerose funzionalità, tra cui svariati contenuti aggiuntivi, come video, sottotitoli, giochi in rete, ecc.



Il logo "BD-LIVE" è un marchio di fabbrica di Blu-ray Disc Association.

- Le funzioni utilizzabili con BD-LIVE cambiano a seconda del disco utilizzato. Per ulteriori dettagli sulle varie funzionalità e sulle loro modalità di utilizzo, si raccomanda di seguire le istruzioni a schermo relative ai vari tipi di dischi utilizzati.
- Per salvare i contenuti scaricati da utilizzare con le funzioni BD-LIVE è necessario inserire una scheda di memoria SD nell'unità UD9004. Si raccomanda l'uso di una scheda di memoria SD da almeno un 1GB o superiore. Inoltre, la scheda SD da utilizzare per tale funzione deve essere formattata con l'unità UD9004 (vedi pagina 32 del manuale delle istruzioni)
- Evitare di rimuovere la scheda SD dall'unità UD9004 durante la riproduzione di dischi compatibili con le funzioni BD-LIVE.

NOTA

- Per utilizzare le funzioni BD-LIVE, collegare l'unità UD9004 a Internet ed effettuare le impostazioni di configurazione riportate in sezione sotto:
- Collegamenti ······· "Connessione alla rete" (vedi pagina 21 del manuale delle istruzioni) Impostazioni ······ "Configurazione Rete" (vedi pagina 31 del manuale delle istruzioni)
- In base all'ambiente di rete utilizzato, in alcuni casi il collegamento in rete potrebbe richiedere molto tempo, oppure non essere consentito.
- L'estrazione e l'inserimento delle schede SD devono essere effettuati sempre quando l'unità è impostata in modalità standby. Se la scheda SD viene inserita quando l'unità è accesa e funzionante, il sistema potrebbe non riconoscerla e non rilevarne la presenza.

SVENSKA

BD-LIVE (BD ROM Profile 2.0) kompatibilitet

Vi uppskattar att du köpt den här Marantz-produkten.

UD9004 stöder både BONUS VIEW-funktionen och BD-LIVE (BD ROM Profile 2.0)

(Funktioner som kan användas med BD-LIVE varierar från skiva till skiva.)

→ BD-LIVE

UD9004 kan anslutas till Internet för användning av en mängd funktioner, t.ex. ytterligare innehållas som specialvideor eller undertextning, nätverksspel, etc.



"BD-LIVE"-logotypen är ett varumarke som tillhör Blu-ray Disc Association.

- Funktionerna som kan användas med BD-LIVE varierar från skiva till skiva. För mer information om funktionerna och hur de används, se varje skivas display och förklaringar.
- Ett SD-kort måste laddas i UD9004 för att kunna spära nedladdat material för användning av BD-LIVE-funktionerna.
 Använd ett SD-kort med en kapacitet på 1 GB eller mer. SD-kortet måste också formateras på UD9004 (se bruksanvisning sidan 32).
- Ta inte bort SD-kortet från UD9004 under uppspelning av en BD-LIVE-kompatibel skiva.

OBSERVERA

- Beroende på din nätverksmiljö kan det i vissa fall krävas tid för att ansluta nätverket. Det kan också hända att det är omöjligt att ansluta.
- Sätt i och ta ut SD-kortet i standby-läge. Om SD-kortet sätts in i påslaget läge, kan det kanske inte läsas av.

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 - e) cause autre qu'un défaut de produit.
- 2. L'entretien, l'installation initiale, toute vérification de produit ou aucun défaut n'a été trouvé, ou tous frais encourus pour

- 1. Si vous avez besoin de faire réparer votre appareil, vous pouvez l'envoyer ou le déposer chez un atelier de service autorisé Marantz ou directement chez Marantz Canada (Dans le cas ou vous n'êtes pas sûr de savoir si un atelier de service est autorisé ou non à réparer votre appareil, vous pouvez contacter Marantz Canada à l'adresse et au numéro de téléphone ci-dessous). Veuillez ne pas renvoyer votre appareil à l'usine sans autorisation préalable.
- 2. Vous devez payer les frais de livraison dans le cas où votre appareil a besoin d'être envoyé au service des réparations. Toutefois, si les réparations nécessaires sont couvertes par la garantie, nous payerons les frais de retour d'expédition et ce quelle que soit la destination au Canada.
- 3. Lorsque vous envoyez votre appareil pour un service sous garantie, vous devez joindre une copie de la facture d'achat (ticket ou autre preuve d'achat)

Limites des garanties implicites

Toutes les garanties implicites, y compris les garanties de valeur marchande et spécifique pour un achat particulier, sont limitées dans la durée à la longueur de cette garantie.

Exclusion des dommages

La responsabilité de Marantz est limitée pour n'importe quel produit défectueux en ce qui concerne la réparation ou le remplacement du produit en question. Si des dommages interviennent à des produits autres que ceux de Marantz, Marantz ne sera pas tenu responsable des dits dommages, basés sur le dérangement ou la perte d'utilisation du produit ou tout autre dommage qu'il soit fortuit, indirect ou autre.

Certaines provinces ne permettent pas de limites quant à la durée d'une garantie sous-entendue et/ou ne permettent pas l'exclusion de dommages fortuits ; ainsi les limitations et les exclusions mentionnées ci-dessus peuvent ne pas s'appliquer à votre cas.

Cette garantie vous donne des droits légaux spécifiques, mais vous pouvez aussi avoir d'autres droits qui peuvent varier Recorders; CD Players; Audio Cassette Decks; Learning Remote Control Devices; Universal Dock; Home Theater Systems; Subwoofers & DLP front Projectors.

HD Digital VCR's

$\bf 90$ day warranty for parts and labour from the original purchase date :

DLP lamps

3-year warranty for Labour, 2-year warranty for parts and 1-year warranty for the Panel :

Plasma Displays

What is Covered and What is Not Covered

Except as specified below, this warranty covers parts and labor to correct all defects in materials and workmanship. The following are not covered by the warranty:

- 1. Damage, deterioration, malfunction or failure to meet performance specifications resulting from:
 - a) Accident; acts of nature; misuse; abuse; neglect; unauthorized product modification.
 - b) Improper installation, removal or maintenance, or failure to follow instructions supplied with the product.
 - c) Repair or attempted repair by anyone not authorized by Marantz to repair the product.
 - d) Any shipment of the product (claims must be presented to the carrier)
 - e) Any cause other than a product defect

- 2. Cleaning, initial set-up, check-ups with no defects found, or charges incurred for installation, removal or reinstallation of the product.
- 3. Any product on which the serial number has been defaced, modified or removed.

discussed in the next section of this waitanty.

How You Can Get Service

- 1. If your unit needs service, it may be taken or shipped to any authorized MARANTZ service station or MARANTZ CANADA (if you are uncertain as to whether a service station is MARANTZ authorized, please contact MARANTZ as listed below). Please do not return your unit to the factory without prior authorization.
- 2. You must pay any shipping charged if it is necessary to ship the product for service. However, if the necessary repairs are covered under warranty, we will pay the return shipping charges to any destination within Canada.
- 3. Whenever warranty service is required, you must present the original dated sales receipt or other proof of date of purchase.

Limitation of Implied warranties

All implied warranties, including warranties of merchantability and fitness for a particular purchase, are limited in duration to the length of this warranty.

Exclusion of damages

Marantz liability for any defective product is limited to repair or replacement of the product at Marantz's option. Marantz shall not be liable for damage to other products caused by any defects in Marantz products, damages based upon inconvenience or loss of use of the product, or any other damages, whether incidental, consequential, or otherwise.

Some provinces do not allow limitations on how long an implied warranty lasts and/or does not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific legal rights, but you may also have other rights, which vary from province to province.

Amplifiers, Pre Amplifiers, Pre Amplifier-Processor-Tuners, Integrated Amplifiers, Tuners, Receivers, DVD Players, CD-Recorders, CD Players, Audio Cassette Decks, Learning Remote Control Devices, Universal Dock, Home Theater Systems, Subwoofers & DLP front Projectors.

- 2. VCR's, Wallvisions, Plasma TVs, LCD TVs & HDD Products have a 1 year warranty for parts and labor from the original purchase date.
- 3. **Rear Projection TVs** have a 2 year warranty for parts and labor from the original purchase date.
- 4. **DLP lamps** have a 90 day warranty for parts and labor from the original purchase date.

What is covered and what is not covered

Except as specified below, this warranty covers parts and labor to correct all defects in materials and workmanship. The following are not covered by the warranty:

- 1. Damage, deterioration, malfunction or failure to meet performance specifications resulting from:
 - a) Accident, acts of nature, misuse, abuse, neglect or unauthorized product modification.
 - b) Improper installation, removal or maintenance, or failure to follow instructions supplied with the product.
 - c) Repair or attempted repair by anyone not authorized by Marantz to repair the product.
 - d) Any shipment of the product (claims must be presented to the carrier).
 - e) Any cause other than a product defect.
- 2. Cleaning, initial set-up, check-ups with no defects found, or charges incurred for installation, removal or reinstallation of the product.
- Any product on which the serial number has been defaced, modified or removed.
- 4. Batteries.

ered by the warranty. Payment of shipping charges is discussed in the next section of this warranty.

How you can get service

- If your unit needs service, contact Marantz service referral by calling toll-free 1-800-270-4533. We will advise you of the name and location of one or more authorized Marantz service stations from which service can be obtained. Please do not return your unit to the factory without prior authorization.
- You must pay any shipping charged if it is necessary to ship the product for service. However, if the necessary repairs are covered under warranty, we will pay the return shipping charges to any destination within the United States, its possessions or territories.
- Whenever warranty service is required, you must present the original dated sales receipt or other proof of date of purchase.

Limitation of implied warranties

All implied warranties, including warranties of merchantability and fitness for a particular purchase, are limited in duration to the length of this warranty.

Exclusion of damages

Marantz liability for any defective product is limited to repair or replacement of the product at Marantz's option. Marantz shall not be liable for damage to other products caused by any defects in Marantz products, damages based upon inconvenience or loss of use of the product, or any other damages, whether incidental, consequential, or otherwise.

How state law relates to the warranty

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

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