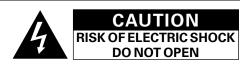


marantz®

Super Audio CD
/ Blu-Ray Disc player

UD8004

□ 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 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"

IMPOTANT SAFETY INSTRUCTIONS

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

CAUTION:

- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.
- 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 unit.

ATTENTION:

- La ventilation ne doit pas être gênée en recouvrant les ouvertures de la ventilation avec des objets tels que journaux, rideaux, tissus, etc.
- 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 quedar obstruida por haberse cubierto las aperturas con objetos 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 jarros.

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. PRODUCT

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 product.

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 help.

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 / Derechos de Autor

- 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.
- De acuerdo con las leyes está prohibido reproducir, emitir, alquilar o interpretar discos en público sin la autorización del propietario de los derechos de autor.

□ NOTE ON USE / OBSERVATIONS RELATIVES A L'UTILISATION / NOTAS SOBRE EL USO



- Avoid high temperatures.

 Allow for sufficient heat dispersion when
- Eviter des températures élevées. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étanère

installed in a rack

 Evite altas temperaturas.
 Permite la suficiente dispersión del calor cuando está instalado en la consola.



- Keep the unit free from moisture, water, and dust.
- Protéger l'appareil contre l'humidité, l'eau et la poussière.
- Mantenga el equipo libre de humedad, agua y polvo.



- 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.
- Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo.



- Do not let foreign objects into the unit.
- Ne pas laisser des objets étrangers dans l'appareil.
- No deje objetos extraños dentro del equipo.



- 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.
- No permita el contacto de insecticidas, gasolina y diluyentes con el equipo.



- Handle the power cord carefully.

 Hold the plug when unplugging the cord.

 Maringlands and a d'alignment for a surgicial des la carden d'alignment for a surgicial de la carden de la car
- Manipuler le cordon d'alimentation avec précaution.
- Tenir la prise lors du débranchement du cordon.
- Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía.



- * (For apparatuses with ventilation holes)
- Do not obstruct the ventilation holes.
 Ne pas obstruer les trous d'aération.
- No obstruya los orificios de ventilación.



- Never disassemble or modify the unit in any way.
- Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre.
- Nunca desarme o modifique el equipo de ninguna manera.



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Features

Universal Blu-ray Disc player that plays Super **Audio CD and DVD-Audio formats**

page 3, 4 "Playable Media"

Equipped with Dolby TrueHD, DTS-HD Master Audio decoder

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

page 16 "Connecting to a Device with an Analog Multichannel Audio Input Terminal"

GUI installed with excellent operability and visibility

page 22 "GUI Menu Operation"

HDMI control ready

page 46 "HDMI Control Function"

Newly developed "Marantz New Precision Mechanism" with low center of gravity, vibration damping, quietness and high accuracy

Getting Started

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

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 22)

Accessories

Check that the following parts are supplied with the product.

① Remote control		1
② AAA/R03 batteries		2
3 Power cord		1
4 Audio cable		1
⑤ Video cable		1
6 Owner's manual		1
Warranty (for North Am	erica model only).	1
1	4	⑤
	🕳	
		all all
	~	

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 outlet.

Image persistence (image burn-in)

Do not leave the still images of the disc menu, UD8004 menu, etc., displayed on the TV screen for long periods. This can result in image persistence (image burn-in) on the screen.

About Condensation

If the UD8004 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 UD8004 will not operate correctly and damage may result. If condensation is formed on the unit, leave the UD8004 unit for 1 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

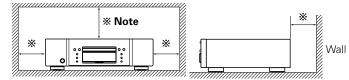
If the unit is left in a room full of the smoke from cigarettes, etc., for long periods of time, the surface of the optical pickup could get dirty, in which case it will not be able to read the signals properly.

• 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.



Do not place the UD8004 on an amp or other piece of equipment that generates heat.

About Media

Playable Media

Discs

Playable Media		Playable formats/ modes	Playable region codes	Symbols Used in this Owner's Manual
BD-Video *1,*2	Biuray Disc	-	Include region	BD
DVD-Audio *1	AUDIO		-	DVD-A
DVD-Video *1,*2	VIDEO	-	Include region	DVD-V
DVD-R, DVD+R DVD-RW, DVD+RW	DVD-Rewritable DVD-R	Video mode, AVCHD format	-	DVD
Super Audio CD	SUPERALIDIOCD	_	-	SA-CD
CD	COMPACT CISC DIGITAL AUDIO			
CD-R	COMPACT COMPACT DIGITAL AUDIO RECORDADE	_	_	CD
CD-RW	DIGITAL AUDIO ReWritable			

- *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.

About Media

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 * 1 (8 MB ~ 2 GB)		MP3 WMA AAC LPCM
SDHC Memory Card *1 (4 GB)	CD.	Data recorded for BD BONUS
miniSD Card *2 (8 MB ~ 2 GB)	SD	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.



NOTE

- This unit does not support mini SDHC and micro SDHC Memory Card.
- 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 UD8004 (1287 page 30).

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	МР3
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 × 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 correctly
- JPEG format images stored in progressive format cannot be played back.

About Media

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 UD8004 registration code is required. For details, see "DivX® Registration" (Repage 28). DivX Authorization Error

This player is not authorized to play this video.

/iew DivX(R) VOD Rental his rental has 3 views left To vou want to use

ne of your 3 views now?

ОК

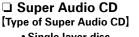
DivX Rental

No

• A DivX® VOD file recorded with a different code from the UD8004 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 (*()*) 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) to confirm the selection.

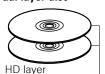


Single layer disc



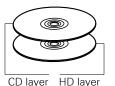
Single layer Super Audio CD with only an HD layer *.

Dual layer disc



Super Audio CD with a double HD layer *, offering extended playing time and high sound quality.

Hvbrid 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.

NOTE

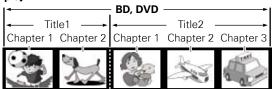
- ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, Inc. This is an official Divx Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.
- ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play DivX Video-on-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD.

About Discs and Files

☐ BD-Video. DVD-Video

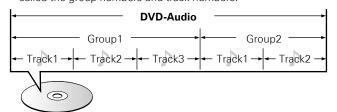
BD/DVD-Video discs are divided into several large sections (titles) and small sections (chapter). These sections are all allotted numbers, called the title numbers and chapter numbers.

[Example]

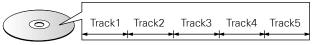


□ DVD-Audio

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.

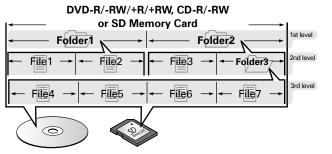


CDs are divided into several sections (tracks). These sections are all allotted numbers, called the track numbers.



☐ 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 UD8004 can recognize up to 8 hierarchies of folder.





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.

Setup

About Media

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 upsidedown, "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.

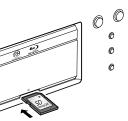




• Do not push the disc tray in by hand when the power is turned off. Doing so could damage the set.

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 5 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 UD8004'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 fingers.
- 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.

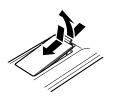
About Copyright

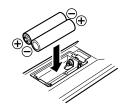
- Unauthorised copying, broadcasting, public performance and lending of discs are prohibited.
- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights.
- Use of this copyright protection technology must be authorized by Macrovision, 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.





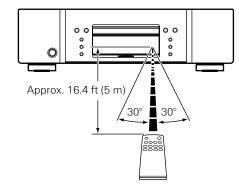
(3) Put the rear cover back on.

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.)
- When inserting the batteries, be sure to do so in the proper direction, 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 flames
- 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 Unit

Point the remote control unit at the remote sensor when operating it



NOTE

The set may function improperly or the remote control unit may not operate if the remote control sensor is exposed to direct sunlight, strong artificial light from an inverter type fluorescent lamp or infrared light.

Remote Control Settings (Remote Control Side)

Switches when the UD8004'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" (**Page 30).

[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 (\bigcirc) button and the Number button (\bigcirc) 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 on the display.

(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.

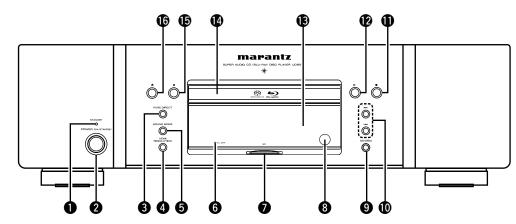
NOTE

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 UD8004 with the remote control.

Part Names and Functions

Front Panel

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



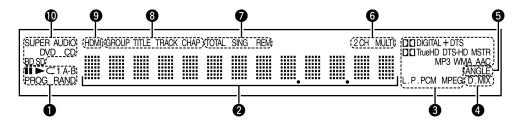
STANDBY indicator ·····	(20)
2 POWER ON/STANDBY button	(20)
3 PURE DIRECT button	(37)
4 HDMI RESOLUTION button ······	(13)
SOUND MODE button	(36)
6 FL OFF indicator·····	(28)
7 SD CARD slot ······	(6)
Remote control sensor · · · · · · · · · · · · · · · · · · ·	(7)
9 SD/DISC button·····	(33)

Revers-skip / Forward-skip butto (I◄◄, ▶►I)	
1 Stop button (■)·······	(40)
Play button (►)	(36)
(B) Display ······	(8)
1 Disc tray	(6)
⑤ Pause / Still button (■) ···································	(40, 42)
⑥ Disc tray open / close button (▲)	(33)

When power is in standby mode, press **@** 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 **1 A-B**: During repeat playback

2 Information display

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

3 Playback format indicators

4 Downmix indicator

Displayed when playing back downmix permitted audio.

5 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

8 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

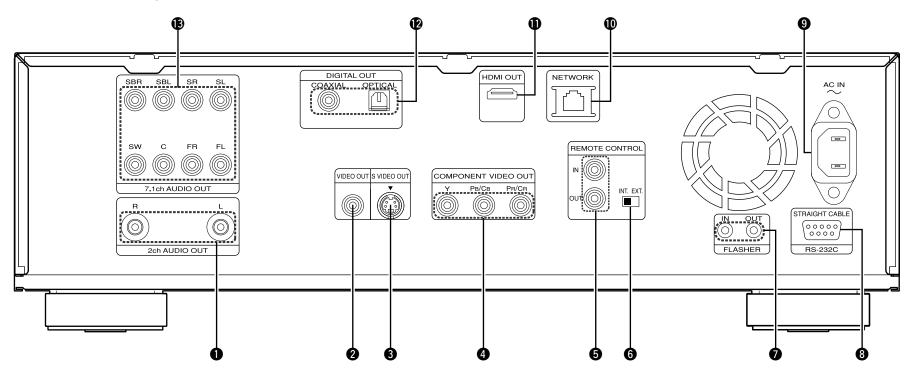
SUPER AUDIO CD: Super Audio CD

CD : CD

SD: SD Memory Card Displays the inserted media.

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

Rear Panel



1 2ch AUDIO OUT connectors ····· (18)
For software recorded in multi-channel, analog
signals that have been down-mixed into 2
channels are output.
2 VIDEO OUT connector ····· (18)

2	VIDEO OUT connector ······ (18)	
3	S VIDEO OUT connector ····· (18)	

- 4 COMPONENT VIDEO OUT connectors ···· (18)
- **3** REMOTE CONTROL IN and OUT connectors(19)
- **6** EXTERNAL/INTERNAL switch (INT. EXT.)(19)
- **7** FLASHER IN/OUT iacks······(19) Connect an external control device or other

device for servicing. (Use a straight cable for the connection.)

8 RS-232C connector

Extension connector for future use.

\boldsymbol{y}	AC inlet (AC IN)······	20)
D	NETWORK connector ······ (19, 2	20)

- The HDMI OUT connectors(13)
- DIGITAL OUT OPTICAL / COAXIAL connectors.....(15)
- **1** 7.1ch AUDIO OUT connectors (16)

NOTE

- 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.
- When outputting audio from a DTS-HD 7.1-channel source to HDMI or analog 7.1 channel audio, and to 2-channel analog audio, perform the following settings so that the audio is down mixed to the correct 2-channel analog audio output signal as intended by the producer of the source and DTS, Inc.
- In "HDMI Setup", set "Audio Setup" to "2Ch" (Prage 24).
- In "Audio Setup", set "7.1ch Audio Out" to "2 Channel" (@page 25).

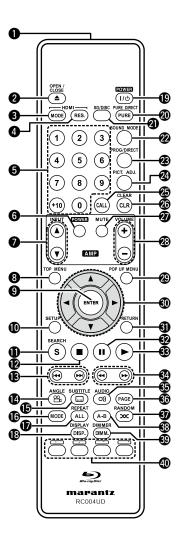
If "Audio Setup" in "HDMI Setup" and "7.1ch Audio Out" in "Audio Setup" are not set to "2Ch" or "2 Channel" respectively, 2-channel analog audio is output using this unit's own downmix.

In this case, the downmix may differ from that intended by the producer of the source and DTS, Inc.

Part Names and Functions

Remote Control Unit

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



● Remote control signal transmitter ······(7)
② Disc tray OPEN/CLOSE button (♠) ······(33)
3 HDMI MODE button (14)
4 HDMI RESOLUTION button ······(13)
6 Number buttons (0 ~ 9, +10)(34, 35)
6 AMP POWER button(10)
AMP INPUT buttons(10)
③ TOP MENU button (35)
9 ENTER button(22)
1 SETUP button(21)
1 SEARCH button(36)
② Stop button (■)·····(40)
Revers-skip, Forward-skip buttons (I◄◄, ▶►I) ······(40)
1 ANGLE button(46)
SUBTITLE button ·····(45)
1 MODE button(31)
T REPEAT button (ALL REPEAT)(43)
1 DISPLAY button (33)
19 POWER button (20)
PURE DIRECT button (37)
② SD/DISC button ·····(33)
② SOUND MODE button (36)

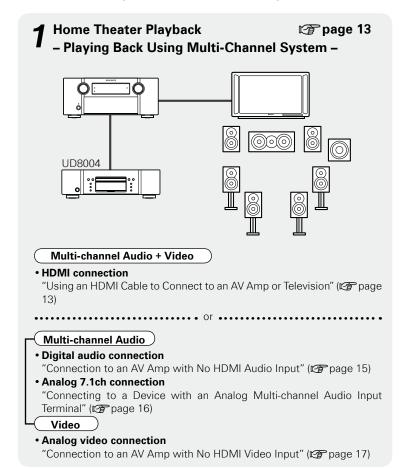
PROGRAM/DIRECT button ······	(44)
PICTURE ADJUST button	(32)
② CALL button	(44)
CLEAR button	(32)
② AMP MUTE button ·····	(10)
AMP VOLUME buttons	(10)
POP UP MENU button	(35)
⑩ Cursor buttons (△▽⊲⊳)····································	(22)
RETURN button	(22)
Pause/Still button (II)	(40, 42)
③ Play button (►)	(36)
❸ Fast-reversing, Fast-forwarding buttons (-)	◄◄, ▶►) ·····(42)
AUDIO button	(44, 45)
6 PAGE button ······	(37)
③ RANDOM button	(43)
REPEAT A-B button	(43)
DIMMER button	(46)
RED/GRN/BLU/YEL buttons	
4	

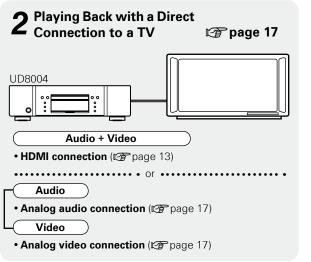


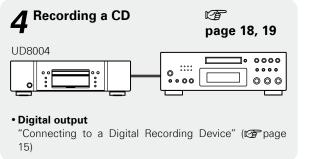
- When power is in standby, press 2 and 3 to turn the power on.
- You can use @ when operating the BD popup menu screen, etc.
- 6, ②, ②, ② : These are used to operate the corresponding functions of a Marantz integrated amplifier. For each function, refer to User Guide supplied with the Integrated Amplifier.

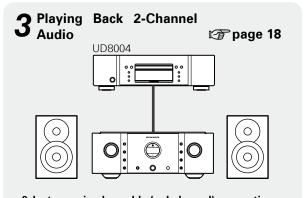
Connections

Connect the UD8004 as follows before using. Make connections according to the equipment you are connecting. Some UD8004 settings may be necessary depending on the connection method. Check each connection item for more information.

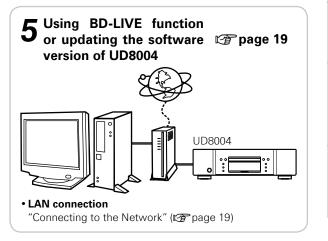








• 2ch stereo pin plug cable (unbalanced) connection "Connecting to a Device with Analog 2-channel Audio Input Terminal with Stereo Pin Plug Cable" (@page 18)



- Connecting the Power Cord
- Once Connections are Completed

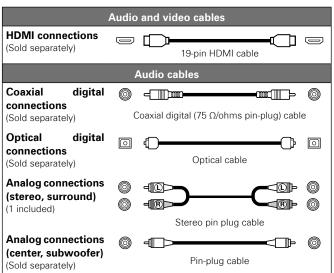


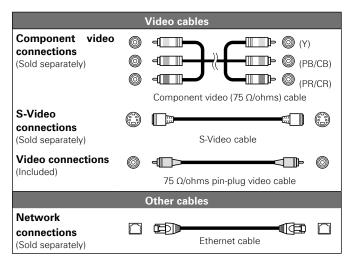
Setup

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

- When connecting with an HDMI cable, press MODE and set it to "HDMI On".
- UD8004 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 23, 24).

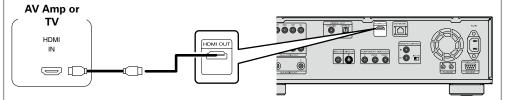
NOTE

- When you press (MODE) and set it to "HDMI On", no video signals are output from the component video outputs.
- 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" (*) ("Playing Back High-Quality Audio (Pure Direct Function)" page 37)
- * Do this after setting "Pure Direct Setup" "User Preset 1" or "User Preset 2" "Video Out" on GUI menu to "On" (Pp page 28).

During "HDMI On"

Audio/video signals are output from the HDMI terminal.

When the HDMI video resolution is set to "Auto" as described in "About HDMI Video Resolution Setting" (@page 13), the UD8004 outputs the highest resolution video signal that is supported by the connected equipment.



NOTE

- When audio/video signals are output from the HDMI terminal, no video signals are output from the component terminals.
- When a signal comprising 24 frames per second, such as 1080P24, is output from the HDMI terminal, no video signals are output from the video or S-Video outputs.

During "HDMI Off"

Audio/video is not output from the HDMI terminal.

☐ 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. (Pp page 14 ~ 20).
- 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.

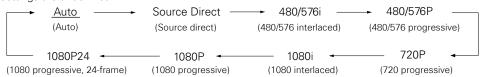
Required Settings for HDMI Connection

Setting HDMI Video Output

- ☐ Make HDMI Output Signal and HDMI Control Function Settings "HDMI Setup" (27 page 23, 24)
- ☐ Make the Video Output Signal Setting for the Connected Television "Video Setup" (Pr page 24)

☐ About HDMI Video Resolution Setting

(RES.). Switch the output mode as follows. Default Change the HDMI video resolution by pressing settings are underlined.



- 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 UD8004'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 UD8004, it takes from a few seconds up to about 10 seconds for validation between the UD8004 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.



When outputting a video signal comprising 24 frames per second from the HDMI terminal, select "1080P24" or "Source Direct" after setting the GUI menu "HDMI Setup" - "I/P Direct" (@page 23) to "On".

See overleaf

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

NOTE

- When the HDMI video resolution is set to "1080P24", HDMI video signals are output from the UD8004 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".
- When the "I/P Direct" (P page 23) setting is "On" and a disc with a frame rate of 24 frames per second is played, no video signals are output from the video or S-Video outputs.
- When the "I/P Direct" (P page 23) setting is "Off", "1080P24" is not displayed.

Setting HDMI Audio Output

- When you press on and set "HDMI Setup" "Audio Setup" to "Auto" (Page 23) on the GUI menu, audio mode is set according to the connected device.
- 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	Auto	UD8004 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 UD8004. Make the setting with the connected device. ** When outputting the Dolby TrueHD or DTS-HD audio, press output and set "BD Audio Mode" to "HD Audio Output" (F) page 31).	
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 UD8004. **For speaker setting, on the GUI menu, "Audio Setup" – "7.1ch Audio Out" – "Multi Channel" – "Speaker Configuration" (**) page 25). **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 UD8004. 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 UD8004. Perform the speaker setting with the connected device.	
Device not compatible with HDMI audio signal input	Mute	Audio signal are not output from the UD8004'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 UD8004'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 Setup" – "Audio Setup the GUI menu		(☞ page 23) on	
		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 LPCM	2 ch Downmix
БО	DTS	DTS * 1	IVIUILI LECIVI	LPCM
	DTS-HD	DTS-HD * 1		
	LPCM	Multi LPCM		
AVCHD	Dolby Digital	Dolby Digital		2 ch Downmix LPCM
AVCHD	LPCM	Multi LPCM	Multi LPCM	
	Dolby Digital	Dolby Digital		
DVD-Video	DTS	DTS		
	LPCM, MPEG	2 ch LPCM		
DVD-Audio	LPCM, PPCM	Multi I PCM		2 ch Downmix
	Multi area	Multi LPCM		LPCM
Super audio CD * 2	Stereo area	2 ch I PCM		
	CD layer	Z CIT ET CIVI		
DivX®	Dolby Digital	Dolby Digital	Multi LPCM	2 ch Downmix LPCM
	MP3, MP2	2 ch I PCM		
CD, MP3, WMA, AAC, LPCM		Z GII LI GIVI		
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 31). Multi LPCM signals are output when outputting HDMI video signals with resolutions of 480i/576i or 480p/576p.
- *2 : Super Audio CD audio signals are output at 44.1 kHz 16-bit.



Even if "HDMI Setup" – "Audio Setup" on the GUI menu is set to "Auto" (@page 23), multilinear PCM or downmixed 2-channel linear PCM signals are output if a device that does not support bitstreams is connected.

Copyright protection system

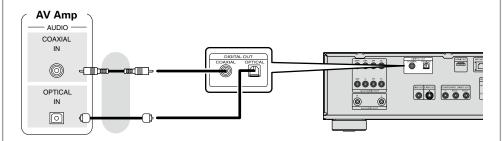
In order to play back digital video and audio such as BD-Video or DVD-Video via HDMI connection, both the player and TV or the AV Amp need to support the copyright protection system known as HDCP (High-bandwidth Digital Content Protection System). HDCP is copyright protection technology comprised of data encryption and authentication of the connected AV device. The UD8004 supports HDCP.

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 UD8004. 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 UD8004 is connected to this kind of device, audio signals are not output from the HDMI terminal.

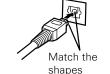
Connection to an AV Amp with No HDMI Audio Input

When playing back Dolby Digital Plus/Dolby TrueHD/DTS-HD audio recorded on a BD disc, the UD8004 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 this connection.
- 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 laver 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 UD8004 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 UD8004.

Media/Files Audio format		Setting "Audio Setup" – "Digital Out" (© page 27) on the GUI menu		
iviedia/ Files	Audio format	Bitstream	PCM/ PCM Down Sampling	
	Dolby Digital			
	Dolby Digital Plus	Dolby Digital * 1		
BD	Dolby TrueHD			
עם	DTS	 - DTS * 1		
	DTS-HD	חוס זי		
	LPCM	2 ch Downmix LPCM * 1	2 ch Downmix I PCM	
AVCUD.	Dolby Digital	Dolby Digital	2 CH DOWNINIX LPCIVI	
AVCHD	LPCM	2 ch Downmix LPCM		
	Dolby Digital	Dolby Digital		
DVD-Video	DTS	DTS		
	LPCM, MPEG	0.15		
DVD-Audio	LPCM, PPCM	2 ch Downmix LPCM		
	Multi area	Audio io not output		
Super Audio CD	Stereo area	Audio is not output		
	CD layer	2 ch LPCM		
DivX®	Dolby Digital	Dolby Digital	2 ch Downmix LPCM	
DIVX	MP3, MP2			
CD		2 ch LPCM		
MP3, WMA, AAC, LPCM				
DTS-CD		DTS	2 ch Downmix LPCM (DTS * 2)	

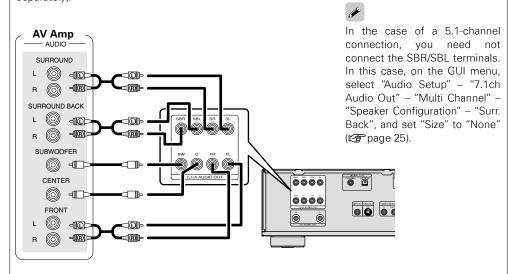
- *1: Bitstream signals are output in accordance with the BD re-encode setting when "BD Audio Mode" is set to "Mix Audio Output" () page 31).
- *2: When "HDMI Setup" "Audio Setup" is set to "Auto" on the GUI menu and bit stream is output from HDMI, the DTS bit stream is output from the digital audio output (optical/coaxial) as well.

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

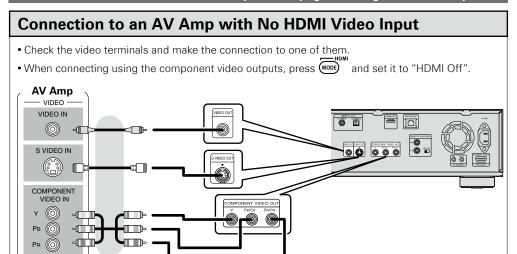
Connecting to a Device with an Analog Multi-channel Audio Input Terminal

Outputs multi-channel audio decoded by the UD8004.

If your audio system has an analog multi-channel audio input terminal, connect using audio cable (sold separately).



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. **Audio terminals** Video terminal S-Video input Component video **HDMI** input terminal input terminal terminal TV TV VIDEO -AUDIO VIDEO -VIDEO COMPONENT VIDEO HDMI AUDIO VIDEO S VIDEO IN R L 00 000 (Sold (Sold (supplied) (supplied) separately) separately) separately)

NOTE

Do not connect the UD8004'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, UD8004's video output becomes NTSC signal format.

When playing PAL disc, UD8004's video output becomes PAL signal format.

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

• The UD8004'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" (Pp page 24). Images will not be projected normally if the television resolution and UD8004's output resolution do not match. Copyright protected DVD is output in 480i/576i or 480p/576p.

NOTE

When you press on and set it to "HDMI On", no video signals are output from the component video terminals. When using the component video terminals, set HDMI mode to "HDMI Off".

☐ When connected to the HDMI input terminal

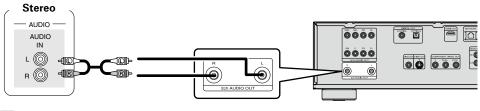
Outputting both digital video and digital audio signals.

See "Required Settings for HDMI Connection" (\mathcal{P} page 13) 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 Stereo Pin Plug Cable

When connecting using the analog 2-channel audio output terminals

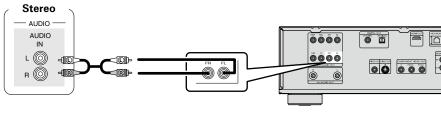




For software recorded in multi-channel, analog signals that have been down-mixed into 2 channels are output.

When connecting using the analog 7.1-channel audio output terminals

On the GUI menu, select "Audio Setup" - "7.1ch Audio Out", and set it to "2 channel" (@page 25).

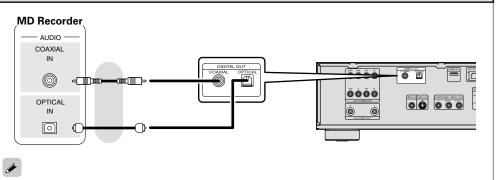




For software recorded in multi-channel, analog signals that have been down-mixed into 2 channels are output.

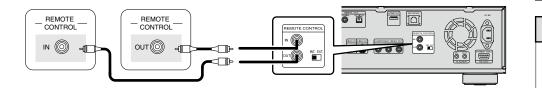
4. Recording a CD

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 27). If you play back DVD or other media with incorrect configuration, deafening noise occurs that may damage the speaker.

5. Remote Control Connection



□ Connecting system control cables

By connecting this player to another Marantz audio component using a supplied System control cable, you can remotely operate the components as a single system.

- When connecting to component with a remote sensor, be sure to connect the REMOTE CONTROL IN iack of this player to the REMOTE CONTROL OUT jack of the component with the remote sensor.
- When connecting to component which is not equipped with a remote sensor, be sure to connect the component to the REMOTE CONTROL OUT jack of this player.

□ Remote switch

When using this player independently, set this switch to INT. (INTERNAL). When using this player in a system with a Marantz receiver equipped with a remote sensor, set the switch to EXT. (EXTERNAL).

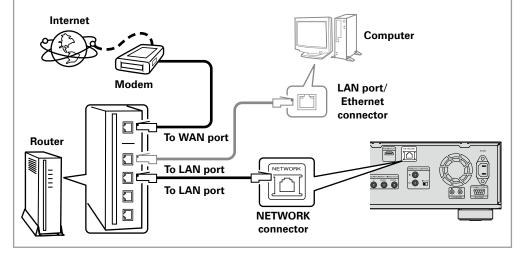
☐ Flasher Input

This is used when controlling components from different rooms with a keypad or other input device. Set the remote switch to INT. (INTERNAL) when using a flasher input.

6. Using BD-LIVE function or updating the software version of UD8004

Connecting to the Network

- You can use a disc which offers BD-LIVE function by connecting the unit to the Internet (F) page
- You can update by downloading the latest firmware from the Internet. For more information, on the GUI menu, select "Other Setup" - "Firmware Update" (@page 30).
- See "Network Setup" (@page 29) on the GUI menu for more information on network setting.



6. Using BD-LIVE function or updating the software version of UD8004

System Requirement

☐ Internet Connection by Broadband Circuit

■ Modem

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 UD8004, 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 UD8004.
- 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 UD8004 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 (1287 page 29).
- If you connect the UD8004 to a network without a DHCP function, conduct IP address and other settings according to "Network Setup" on the GUI menu (12) page 29).
- The UD8004 does not support PPPoE. If you subscribe to a circuit that is set with PPPoE, a PPPoE-compatible router is required.
- When setting manually, check the setting contents with the network administrator.

Connecting the Power Cord Connect the included power cord to the UD8004, and plug it into an AC outlet. To household power outlet (AC 120 V, 60 Hz) Power cord (included)

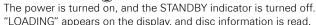
NOTE

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

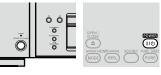
Once Connections are Completed

Turning the Power On

Press the unit's or the remote control's vid.



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



(UD8004)





On the GUI menu, when "Other Setup" – "Auto Power Mode" – "On" (**) page 30), 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 on the unit, or press (1/0) on the remote control. The power indicator lights red.

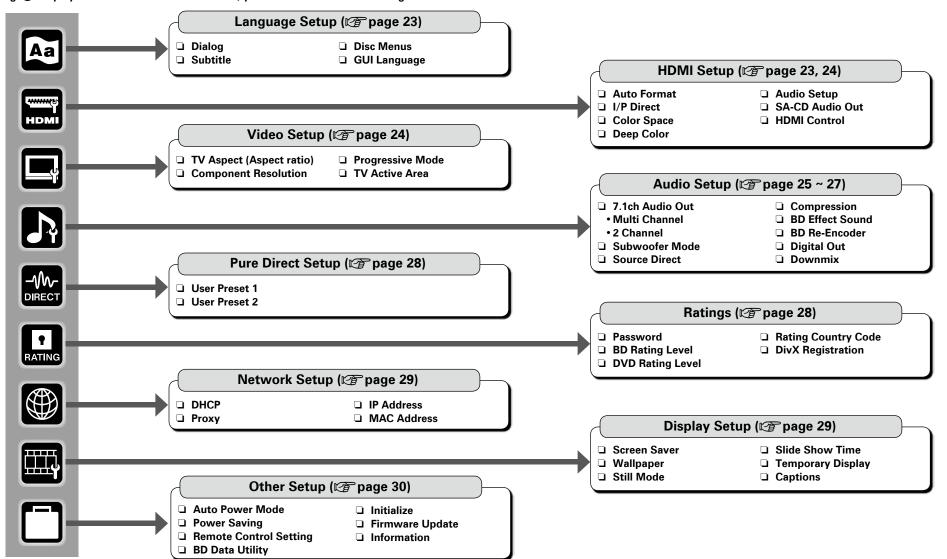


During power standby, a slight amount of power is consumed. To totally cut off the power, remove the power cord from the power outlet.

GUI Menu Setup

Menu Map

Pressing Odisplays the GUI menu. From this menu, you can move to various setting screens.



GUI Menu Operation

Press O. The GUI menu is displayed on the TV screen.

2 Press to select the menu to be set or operated.

* To return to the previous item, press (-) or or

3 Press to enter the setting.



☐ Exiting the GUI Menu

Press 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

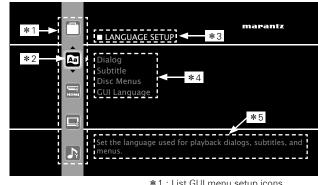
Typical examples are described below.

Press 🕶 to select " 📭

and then press)-).

(Or press (ENTER).)

[Example 1] Menu selection screen (Top menu)

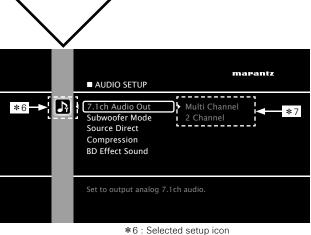


*1: List GUI menu setup icons

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

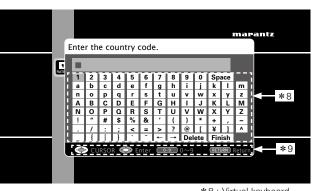
*4: List of currently selected setup items

*5 : Guide text for the currently selected setup item



*7: Options of the selected setup item

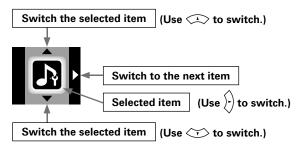
[Example 2] Rating Country Code input screen (with virtual keyboard)



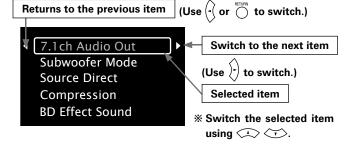
*8: Virtual keyboard

*9: Operation button guide





☐ 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.

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 menu 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/Slovak/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" (@page 48), use number buttons $(0) \sim (9)$ to input the language code, then press (9) to set.



HDMI Setup

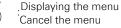
Default settings are underlined.

Set the HDMI output signal or HDMI control function.

Setting items	Setting contents
	Max Res.: Output data using the maximum resolution that can be handled by the connected TV. Panel Res.: Output data using the maximum resolution of the panel of the connected TV. If the TV does not support 1080P24, video is output in 1080P format.
I/P Direct Set whether the I/P converter converts 24P frames.	Off: Convert 1080 progressive 24 frames to 60 frames. On: Output 1080 progressive 24 frames without conversion. NOTE When "I/P Direct" is set to "On", when playing some discs no video signals are output from the video and S-Video terminals.
Color Space Set the video signal system to be output from HDMI.	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)).
Deep Color Set the HDMI terminal to output Deep Color. Expands the color depth (number of used colors) of the HDMI video signal, enabling playback with more natural colors and free of streaking.	Auto : Deep Color is automatically output when the connected HDMI device supports Deep Color. Off : Do not output Deep Color.
Audio Setup Set the audio signal system	[Auto]: Automatically selects and outputs signals that can be input to the connected HDMI device. The bitstream signal takes priority.
to be output from HDMI.	[Multi LPCM BM On]: Decoded Linear PCM multi-channel signal is output by the UD8004. Speaker setting is enabled. (BM: Bass Management) For setting, on the GUI menu, refer to, "Audio Setup" – "7.1ch Audio Out" (Page 25, 26). Speaker Configuration: Set the speaker configuration used for playback. Automatically sets channel components and characteristics according to setting. Channel Level: Set the volume of the test tone to be the same when it

See overleaf







. Moves the cursor (Up/Down/Left/Right)



speaker.



• Distance: Set the distance between the listening position and each

is output from each speaker.

HDMI Setup	
Setting items	Setting contents
Audio Setup	[Multi LPCM BM Off]: Decoded Linear PCM multi-channel signal is output by the UD8004. This setting is not made in speaker setting. (BM: Bass Management)
	[2Ch]: Output the downmixsed 2-channel LPCM signal.
	[Mute]: Do not output audio from HDMI.
SA-CD Audio Out Set to output stereo/multi area audio of Super Audio CD to the HDMI terminal.	 On: Super Audio CD audio is output. Off: Super Audio CD audio is not output. The Super Audio CD audio signal is a 44.1 kHz/16-bit Linear PCM output.
HDMI Control Can operate the unit in conjunction with an HDMI control support device.	 Control] Off: Disable the HDMI control function. On: Link with the device connected to HDMI. [Power Off Control] On: Turns the UD8004's power to standby through linkage to the TV. Off: Does not turn the UD8004's power to standby through linkage to the TV. For the HDMI control function to operate, it is necessary for the UD8004 or HDMI-compatible TV connected to the UD8004 to have an HDMI connection. Refer to "HDMI Control Function" (★ page 46) for more information about the HDMI control function. After the "HDMI Control" setting has been changed, always turn off the



Video Setup

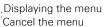
Default settings are underlined.

Set the video output signal according to the connected TV.

Setting items	Setting contents
TV Aspect (Aspect ratio) Set the screen type and display mode of the TV.	16:9 Squeeze Auto: Output to a wide screen TV. For 4:3 video, display in the center of the screen without changing the aspect ratio. *1 WIDE (16:9): Output to a wide screen TV. 4:3 PS: Output to a 4:3 TV. For wide video, trim the left and right side of the image and display in 4:3 aspect ratio. *2 4:3 LB: Output to a 4:3 TV. Display all of the wide video.
Component Resolution * 3 Set the component output resolution.	480/576i, 480/576P, 720P, 1080i, Source Direct: Output video using its source resolution. Convert the 1080p video source to 1080i.
progressive conversion	Auto: Detect the type of video material and automatically switch the mode. Normally, this setting is used. Video1: Suitable for playing video material discs. Video2: Suitable for playing video material discs or 30-frame film material discs.
TV Active Area Sets the horizontal display range when the analog video output resolution is 480i/576i.	Full: Set when a home-use monitor is connected. Normal: This setting is used when video synchronization is disturbed on a professional-use monitor. This is not available for HDMI output.

- *1: This has no effect with the video and S-Video outputs.
- *2 : 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).
- *3: When video is output from the HDMI terminal, no video signals are output from the component terminals.





power to the connected equipment and then turn it back on.







Audio Setup

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 UD8004.

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 amplifier.

To set "7.1ch Audio Out", set "HDMI Setup" - "Audio Setup" on the GUI menu to "2Ch" or "Mute" (P page 24).

NOTE

You cannot select "None" or "No" for "HDMI Setup"

Speaker Configuration: Set the speaker configuration. - Audio Setup" - "Multi LPCM BM On" - "Speaker Configuration" (page 23, 24) on the GUI menu.

Set the speaker configuration, channel level and distance for multichannel playback.

2 Channel

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 `

The 7.1-channel audio output terminals output only FL/FR when you make this setting.

(Front): Set the front speaker size.

- Large : Use of a large speaker that can adequately play back low
- 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.

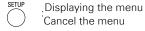
[Surround]: Set the presence and size of the Surround speakers.

- 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.

Setting items	Setting contents
7.1ch Audio Out	 [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.
	[Crossover Freq.]: Set the upper limit of the low frequency signals output from the subwoofer. • 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. • Advanced: Set the low frequency signals to be output from the signals of the respective speakers to the subwoofer. Front, Center, Surround, Surr. Back 40Hz/60Hz/80Hz/90Hz/100Hz/110Hz/120Hz/150Hz/200Hz/250Hz LFE / LFE+Main 80Hz/90Hz/100Hz/110Hz/120Hz/150Hz/200Hz/250Hz When, on the GUI menu, "Audio Setup" – "7.1ch Audio Out" – "Multi Channel" – "Speaker Configuration" – "Subwoofer" is set to "Yes"

Default settings are underlined.

See overleaf



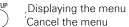




(rapage 25), you can select "LFE" or "LFE+Main".

Audio Setup	
Setting items	Setting contents
7.1ch Audio Out	 NOTE Select "Large" or "Small" not according to the physical size of the speaker but according to the low frequency reproduction capabilities based on the frequency set at "Crossover Freq.". 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. [Example] 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] If the HDMI audio specification of the device at the other side is the 5.1 channel, even when UD8004 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.
	☐ Channel Level: Set the volume of the test tone to be the same when it is output from each speaker. [Mode]: Select a test tone output method. • Auto: Automatically switch the test tone output speaker. • Manual: Manually switch the test tone output speaker.
	[Start]: Begin outputting the test tone. Front L / Center / Front R / Surround R / Surr. Back R / Surr. Back L / Surround L / Subwoofer
	 * When the test tone output stops, press . [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. *: "SW +10dB" cannot be set for "HDMI Setup" – "Audio Setup" – "Multi LPCM BM On" – "Channel Level" on the GUI menu.
	(Default): Reset all channel level settings to factory default. • No: Do not Reset.

Setting items	Setting contents
7.1ch Audio Out	☐ Distance : Set the distance between the listening position and each speaker.
	[Feet] or [Meters]: Set the unit of distance.
	[Step]: Set the minimum variable width of the distance. 1ft, 0.1ft, 0.1m, 0.01m
	[Default]: Reset all distance settings to factory default.
	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 0~18.00m • Default settings : Front/Center/Subwoofer : 12 feet (3.6 meters) Surround/Surr. Back : 10 feet (3.0 meters) • Set the difference in the distance betweem the speakers to less than
	20 feet (6.0 meters). NOTE When "BD Audio Mode" is set to "HD Audio Output" (@ page 31), the "Distance" setting is disabled during DTS-HD 192kHz audio playback.
Subwoofer Mode Set the type of low frequency signal to be output from the subwoofer.	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 signal and output it.





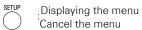


• Yes : Reset.

Audio Setup

Setting items	Setting contents	Sett
Source Direct Disable the speaker and	• 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	BD Re-Enc Sets the output of th signal from terminal.
range of Dolby TrueHD/ Dolby Digital/Dolby Digital Plus audio. At night or other	When set to "On: 50 kHz" or "On: 100 kHz", all speaker sizes are set to "Large" and "Yes" is set for the subwoofer. When set to "On: 100 kHz", output level of Super Audio CD decrease a –6 dB. Auto: Automatically compress Dolby TrueHD audio dynamic range. The sound is not compressed when playing signals other than Dolby TrueHD signals. Off: Dynamic Range compression is not applied. Low: Set minimum dynamic range compression.	Digital Out Set the aud audio output For more int audio signal Signal from Output Terminal" (I
	Middle: Set middle dynamic range compression. High: Set maximum dynamic range compression.	Downmix Set the n convert a audio signa
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.	signal.

Setting items	Setting contents
BD Re-Encoder Sets the format during output of the BD's Mix Audio signal from the digital output terminal.	
Digital Out Set the audio signal of digital audio output. For more information on each audio signal, refer to "Audio Signal from the Digital Audio Output (Optical/Coaxial) Terminal" (Par page 16).	Bitstream: Outputs a bitstream signal. Converts Dolby TrueHD, Dolby Digital Plus to Dolby Digital, and DTS-HD to DTS for output. 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. When outputting CD, etc. to a digital recording device such as the CD recorder, convert to PCM or PCM down sampling. When a disc with recorded Linear PCM or PPCM (Packed PCM) is played back, this outputs Linear PCM irrespective of the setting.
	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" (187) page 31).









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.
	[Video Out]: Set option of video output.
PURE DIRECT PURE .	• 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	• <u>On</u> : Turn on display.
associated circuits.	• Off: Turn off display.
	For more information, see "Playing Back High-quality Audio (Pure Direct
	Function)" (repage 37).



Ratings

Default settings are underlined.

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

Setting items	Setting contents
Password Sets the password for changing the parental control level and parental control country code of BD and DVD.	Change: Change the password. Use ① ~ ③ to enter a password and then press (BUTE) to finalize it. The default setting is "0000".
BD Rating Level Set the parental level for playing BD.	Level 0 ~ 254 : Set the age allowed to play back media. Restricts playback of discs with relevant parental control. No Limit : Do not restrict playing of BDs.
DVD Rating Level Set the parental level for playing DVD.	Level1 ~ 8 : Set the parental level for playing DVD. Lock All : Restrict playing of all DVDs. No Limit : Do not restrict playing of DVDs.
parental control.	Argentina / Australia / Austria / Belgium / Brazil / Canada / Chile / China/ Denmark / Finland / France / Germany / Hong Kong / India / Indonesia / Italy / Japan / Korea, Republic of / Malaysia / Mexico / 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 49) and, with the virtual keyboard, use
DivX Registration Display the DivX [®] registration code.	Show Code : Display the DivX [®] registration code





Network Setup

Default settings are underlined.

Set to connect to the Internet.

You can use a disc which offers BD-LIVE function by connecting the unit to the Internet (@page 35).

To obtain update support for your UD8004, you can download the latest firmware from

Make a network connect beforehand according to "Connecting to the Network" (@page

Setting items	Setting contents
	[On]: Automatically configure the network by the DHCP function. [Off]: When connecting to a network, which does not have the DHCP function, manually configure the following network settings. For the details of the settings, confirm with the provider or network administrator. Use $\textcircled{0} \sim \textcircled{9}$ to enter a value and then press $\textcircled{\text{BMTB}}$ to finalize it.
Since the factory default setting is "On", you do not 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.	 IP Address (BD-LIVE, Update): Manually configure the IP address for BD-LIVE or Firmware Update. IP Address (Control): This is a configuration for future extensions. Usually it is not necessary to configure this. Subnet Mask: If the xDSL modem or terminal adaptor is directly connected to the UD8004, 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.
Proxy Set to connect to the Internet via a proxy server.	[Off] Do not use a proxy server.
	• Port: Use ① ~ ⑨ to enter a port number and then press 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 ﴿ ﴿ ﴿ ﴾ • • • • • • • • • • • • • • • •
	• Port: Use 0 ~ 9 to enter a port number and then press (butter) to finalize it.
IP Address	BD-LIVE, Firmware Update : Displays IP address for BD-LIVE or Firmware Update. Control : Displays IP address for future extensions.
MAC Address	BD-LIVE, Firmware Update : Displays MAC address for BD-LIVE or Firmware Update. Control : Displays MAC address for future extensions.

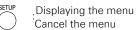


Display Setup

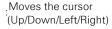
Default settings are underlined.

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. The screensaver function also activates during playback of a CD, Super Audio CD or audio file when no operations are performed for about three minutes.
Wallpaper Setto 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.	3 ~ 5 ~ 100sec: 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 (Papage 46) or Pure Direct Function (Papage 37), this sets it to temporarily display operations received.	Off: Do not temporarily display operations. On: Temporarily display operations.
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

Set other items.

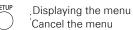
C-44!!4	Catting contacts
Setting items	Setting contents
Auto Power Mode This setting automatically sets the power to standby.	Off: Do not use auto power mode. On: This setting automatically sets the power to standby if any of the following states continues for approximately 30 minutes. • Disc not loaded • 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: During standby, operations are accepted via RS-232C. Power consumption is slightly higher at this time. Quick Start Mode: Start up time is faster but power consumption during standby is higher. Operations are accepted via HDMI Control and RS-232C.
Remote Control Setting (Main unit side) Set the remote control.	[Remote ID] Switches the UD8004'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" (*F* page 7 "Remote Control Setting (Remote Control Side)"). *BD_2: Set the code setting on the remote control to "2" (*F* 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 and BD-LIVE function. NOTE Insert or remove a SD Memory Card while the power is in standby. If the SD Memory Card is inserted when the power is switched on, there are occasions where the card cannot be read, or the BD cannot be played. 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 UD8004. This operation will delete all the data. Do not perform this operation when an SD card containing MP3 or JPEG data is inserted. Remove the disc from the disc tray when carrying out "BD Data Erase" or "Initialize SD Card".

Setting items	Setting contents	
Initialize All settings including audio mode and picture quality are default settings.		
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 GUI screen is shut down. During update, a rough remaining time is indicated on the display. When updating complete, 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	

Default settings are underlined.

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 19, 29).
- 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 UD8004 cannot be performed until updating is completed. Also, setting items of the GUI menu of UD8004 or setting items of the image adjustment may be initialized.
- If a disc is inserted, remove it from the disc tray before performing "Firmware Update".







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.

Press MODE. Displays the currently settable menu. Vertical Stretch Off Mix Audio Output BD Audio Mode

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

2 Select the setting item using \Leftrightarrow \Leftrightarrow , and then press \Leftrightarrow or \Leftrightarrow .

 $\boldsymbol{3}$ Use $\boldsymbol{\circlearrowleft}$ to select a setting and use $\boldsymbol{\circlearrowleft}$ to change the setting.

Setting th	e Audio Mo	de Default sett	ings are underlined.
OCLUII G LII	C AUGIO IVIO	UC	

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.	
	NOTE When "BD Audio Mode" is set to "Mix Audio Output", DTS-HD 192kHz audio is decoded to 96kHz.	

Default settings are **Changing the Playback File Display** underlined.

Setting items	Setting contents		
File filter	All : Plays back MP3/WMA/AAC/LPCM/JPEG/DivX [®] files.		
Selects the file format you	Audio: Plays back MP3/WMA/AAC/LPCM files.		
	Picture: Plays back JPEG files.		
among the files mixed on a	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.		

M	aking	Other Settings	Default settings are underlined.

Setting items	Setting contents	
Secondary Video (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 difference depending on the disc ("Playing Bonus View" ☞ page 35)	
Audio/Video Sync Correct displaced video- audio playback timing.	HDMI / Component: Audio output is synchronized to the video output from the HDMI terminal or component terminals. S-Video / Video: Audio output is synchronized to the video output from the S-Video or Video terminals.	
Audio Delay Adjust While viewing video, manually adjust the time to delay audio output.	$\underline{\textbf{0}}$ ~ 200msec : 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. NOTE This has no effect with the video and S-Video outputs.	

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 O.
The currently set status is displayed.

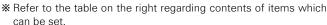
2 Select the memory number you want ("Memory 1" ~ "Memory 5") with \Leftrightarrow , and then press



Select the item you want to change with



4 Change the setting with ().



☐ When Outputting Standard Picture Quality without Using Picture Adjustment

Press O and to select "Standard" and then press on the select "Standard".



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



position.

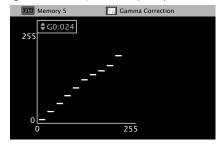
Setting items	Setting contents	Default
DNR Reduce noise in the entire picture.	0 ~ +3	0
Contrast Adjust picture contrast.	-6 ~ +6	0
Brightness Adjust picture brightness.	0 ~ +12	0
Enhancer *3 Strengthens the contours of the picture.	0 ~ +11	0
Gamma Correction *1 Adjust video brightness in detail.	G0 ~ 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, 3 Adjust picture sharpness for the medium frequency range.	-6 ~ +6	0
Sharpness (high range) *3 Adjust picture sharpness for the higher frequency range.	-6 ~ +6	0
Hue (color tone) *4 Adjust the green and red color balance.	-6 ~ +6	0
White Level Adjust the white level.	- 5 ~ +5	0
Black Level *3 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 *3 Adjust the left/right position.	-7 ~ +7	0
V.Position *3 Adjust the top/bottom	-7 ~ + 7	0

- *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.
- *3: This has no effect with the video and S-Video outputs.
- *4: This has no effect with the video and S-Video outputs when playing PAL video.

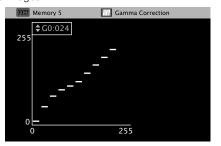
About Gamma Correction

When you select "Gamma Correction", and then press (BOTEM), you can change the setting with (A) (A).

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 UD8004.



• 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



while a graph is displayed.



Playback

Disc playback

- ☐ Playing BD and DVD-Video (@ page 35)
- ☐ Playing Back Super Audio CD (@ page 36)
- ☐ CD Playback (@page 36)
- □ DVD-Audio Playback (© page 36, 37)
- ☐ Playing Back High-Quality Audio (@ page 37)

File playback

☐ File Playback (@ page 37 ~ 39)

Operations Enabled During Playback (@page 39)

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 UD8004 input.

2 Turn the UD8004 power on.

- * When playing back a bonus view, before turning on the power of the UD8004, insert a SD Memory Card that has at least 1GB and has been initialized by UD8004.
- Press to set the playback media mode to "DISC MODE".

Insert a disc.

Press (≜) 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 UD8004 input.

△ Insert a SD Memory Card. Insert the SD Memory Card in the direction indicated by the arrow with the label side up (r page 6, 8).

3 Turn the UD8004 power on.

4 Press on set the playback media 2 3 mode to "SD CARD MODE".





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 (NOO) (ALL) (A-B) (SOC) time (DISPLAY is pressed.

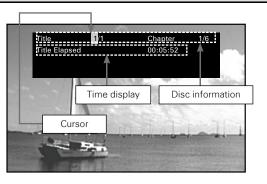
To erase display, press (DISPLAY (DISP.) until it goes away.



* Displayed content differs depending on the media being played

Also, the information displayed during playback and stop differs.

Information Bar Display BD DVD-A DVD-V DVD DivX



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

About Playback Information

□ Disc Information Display

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

chapters

Group being played/total number of Group

aroups

Track being played/total number of tracks Track

□ Time Display

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

☐ HDMI Output Signal Display

 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

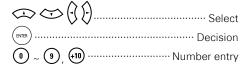
Search Using Information Bar

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".

2 Use \bigcirc ~ \bigcirc and \bigcirc to enter a value.

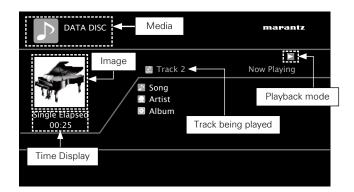
3 Press ONTER. Search is executed and playback begins.

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









☐ Disc Information Display



- D Title
- Artist name
- Album title



About the time display and HDMI output signal display, see "Information Bar Display" (@page 33).

Playing BD and DVD-Video

BD DVD-V

MODE ALL A-B XX

("Before MODE RES. SDIDISC PURE DIRECT preparation Playback Playing a Disc" page 33).

⚠ Make the various settings for playback on the disc menu.





- You can make the following settings on the disc menu. (Settable items vary depending on the disc.)
- · Subtitle language
- Audio language
- · Audio format etc.
- When playing a BD hybrid disc, the disc layer can be changed to "BD layer" or "DVD layer" by pressing O
- During DVD-Video playback, press or or to display the If the menu continues, press to get to the next

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





1 2 3 0

4 5 6

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[Example] Disc menu



(Example) Popup menu

Chapter 2 Chapter 3 Chapter 4 Chapter 5 Chapter 6

(Example) Top menu



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

☐ Playing Bonus View

Press (MODE) to select the secondary video display you wish to



[Selectable item]

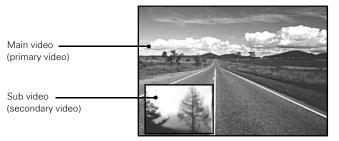
Off: Does not display Secondary Video.

1/X * : Displays the first Secondary Video .

2/X * : Displays the second Secondary Video.

X/X * : Displays the X th Secondary Video.

*: "X" is the number of Secondary Videos recorded and differs depending on the disc.



[Example] Bonus view

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 BD-LIVE and Bonus View Functions must have a capacity of 1GB or greater. Also the SD card must be initialized on the UD8004 (Page 30).
- To use BD-LIVE functions, connect the UD8004 to the Internet and make the settings described below, as necessary:

Connections....."(Connecting to the Network" (page 19) Settings "Network Setup" (page 29)

- Depending on your network environment, in some cases time may be required to connect to the network or connection may not be
- Remove the write protection of a SD Memory card.

☐ 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 UD8004 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 UD8004.
- Do not remove the SD card from the UD8004 while playing a BD-LIVE compatible disc.

☐ 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 UD8004 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 Back Super Audio CD

SA-CD

S (II) (I)

Playback preparation ("Before Playing a Disc" **Page 33).**



:Plays back the multi-channel area of 7 8 9 Multi the HD laver. : Plays back the 2-channel area of the Stereo

: Plays back the CD layer. CD

* Pressing • plays back the selected area/layer.



See "Media Player Display" (P page 34).



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

CD Playback

Playback preparation ("Before Playing a Disc" **Page 33).**

2 Press **.** Playback begins.



☐ When You Look at the Playback Time Display See "Media Player Display" (page 34).

DVD-Audio Playback

DVD-A

1 2 3 0

4 5 6

(+10) (0) (CALL) (CLR

789

Playback preparation ("Before Playing OF RES. OF PURE DEED PRESENTED FOR PURE DEED PURE DEED PURE DEED a Disc" page 33).

9 Select the part for playback with \bigcirc .

Audio: Plays back the audio part. Video : Plays back the video part.

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



☐ When You View the Text or Playback Time Display

See "Information Bar Display" (page 33).

Change Group/Track

◄ During stop or during playback, select search mode with search some search mode is displayed in the top right of the screen.

* The search mode changes each time you press (s)

Group search mode ◆ Track search mode

△ Select the playback group and track **L** from the top menu, and then play back.

(0) ~ (9), (+10), (ENTER)

Plays back the group or track of the pressed

* See "Looking for Specific Sections Using the Search Modes" (Prage 41) for instructions on inputting numbers.





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 season.

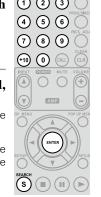
2 Enter the bonus group number with (1 2 3 (4 5 6)



3 Using © ~ 9 enter a 4-digit password, and then press (BUER).

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

* The password may also be entered on the menu screen, so follow the instructions on the screen.



☐ When you enter the wrong password

Press to erase the input number and then enter the correct number.



Select Still Images

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

Press (PAGE) 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 during stop, and then select pure direct mode.



Off : This turns off the pure direct function.

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

User Preset 1 : Operates with the registered pure direct setting.

("Pure Direct Setup" page 28)



- You cannot use (FURE) while the GUI menu is displayed.
- With "On" and the main unit display set to off, indicators other than power are turned off.
- The pure direct setting returns to "Off" when the UD8004 is put in standby mode.

File Playback

□ About the File Display

The limits on the number of folders and files that can be displayed by the UD8004 are as follows.

(The limited number includes the root folder.)

- Number of folder directory levels8 levels
- 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.

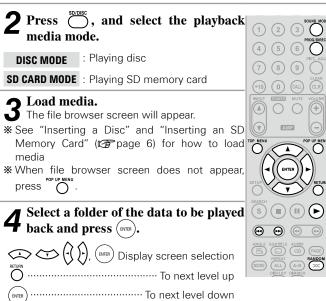
File Playback

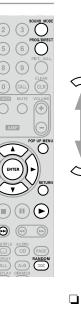
File Playback MP3 | WMA | AAC | LPCM | **JPEG** DivX

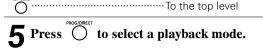
About folder and file displays

☐ File Browser Screen









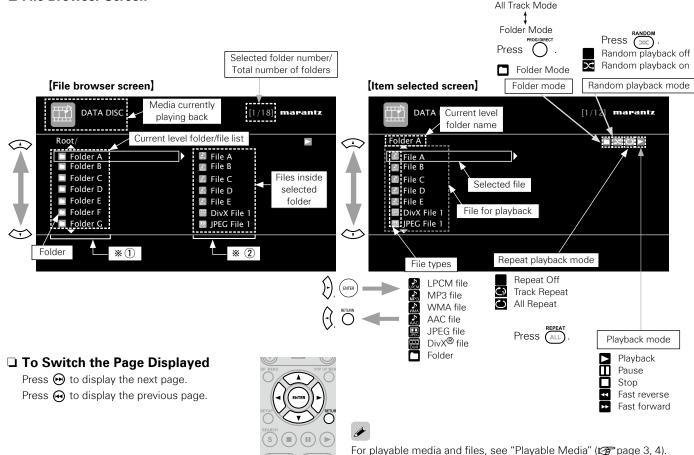
All Track Mode : Plays back all files in the media.

Folder Mode : Plays back files in the selected folder. The folder icon is displayed in the playback mode indicator.





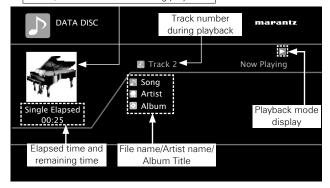
Operation during playback differs depending on the file being played back. See "Operation During Playback" (@page 39).



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 (∞) during stop, and then press (ENTER) or **(**

☐ Playing Back Repeatedly (Repeat Playback)

Press (ALL) to select the repeat playback mode.



S III F MODE ALL A-B COC

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.

while the file browser screen is Press displayed.

The thumbnail screen will appear.

O while the thumbnail screen is displayed returns vou to the file browser screen.



2 Use $\Leftrightarrow \Leftrightarrow \diamondsuit$ \diamondsuit to select still

Press (ENTER). Display selected image on full screen.





- Set the image display time on the GUI menu with: "Display Setup" - "Slide Show Time" (Page 29).
- With a large image file, the display time may be longer than the set time.

☐ Changing the Still Image being Played Back

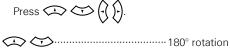
Press (4), (A).

• Before playback, or display of next image.

□ Pausing the Display

Press (II).

- To cancel pause, press (>)
- ☐ Changing the Still Image Orientation





☐ Returning to Thumbnail Display Screen



Operations Enabled During Playback

- ☐ Pause Playback (@ page 40)
- ☐ Stop Playback (Resume Function) (page 40)
- ☐ Skipping to the Chapter/Track/File You Want to Playback () page 40)
- Looking for Specific Sections Using the Search Modes (© page 41)
- Memorizing Locations You Want to Replay (Marker Function) (12 page 42)
- ☐ Fast Forward/Fast Reverse (@ page 42)
- ☐ Step-by-Step Playback (@ page 42)
- ☐ Slow Forward/Slow Reverse Playback(☞ page 42)
- ☐ Playback in Any Order (Random Playback)
 ((② page 43)
- ☐ Playing Back Repeatedly (Repeat Playback)
 (☐ page 43)
- □ Repeat Playback between Specified Points (A-B Repeat) (127 page 43)
- ☐ Playing back in your preferred order (Program Playback) (ﷺ page 44)
- ☐ Switching Audio (@ page 44, 45)
- ☐ Changing the Subtitles and Subtitle Style ((2) page 45)
- ☐ Switching the Angle (@ page 46)
- □ Changing the Brightness of the Display (Dimmer Control) (இpage 46)

If the video is blurred during pause, stop playback and press , then, on the GUI menu, change "Display Setup" – "Still Mode" – "Field" (*** page 29).



Stop Playback (Resume Function)

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

MP3 WMA AAC LPCM DivX

Press **a** during playback. Playback stops.

□ About Resume Function

When playback is stopped, the stop position is memorized.

BD DVD-A DVD-V DVD DivX

The ">" indicator flashes on the display. When playing back data from the stop position, press
 while stop by the resume function.

☐ To Cancel the Resume Function

Perform one of the following operations.

- Press during stop.
- Open the disc tray.
- Change the playback media mode with
- 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.

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



During playback, press @ or ...

- Playback begins from the start of the chapter/ track/file being played.
- 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 on the disc.



Press (11) during playback.

The "II" indicator will light on the display.





Looking for Specific Sections Using the Search Modes

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

MP3 WMA AAC LPCM DivX JPEG

During playback, press (s), and then search mode. The search mode setting bar is displayed at the top of the screen.

• The search mode changes each time the button is pressed.

[Search mode-compatible media and files]

Media / file	BD	DVD-A	SA-CD	DivX	MP3 WMA
	DVD-V		CD		LPCM JPEG
Search mode	DVD				AAC
Chapter search	0				
Title search	0				
Time search	0	0	0	0	
Marker search *	0	0		0	
Track search		0	0	0	0
Group search		0			

*** About Marker Search**

Plays back from your selected marker number.



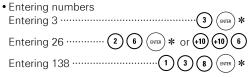
- When the entry mode for chapter/title/track/ group search continues for about 5 seconds with no operation, it is cancelled.
- When the power is set to standby or the disc is removed, the set marker is deleted.

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

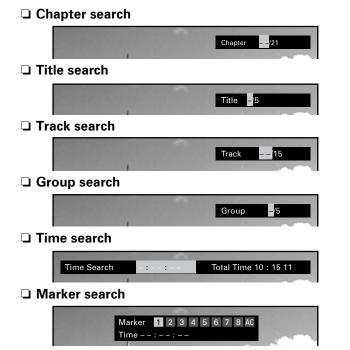
Search specified location on completion of entry.

① ~ ⑨, ﴿10Number entry	
Finalizes number	
Marker number selection	
Finalizes the marker number or plays back	
CLRMarker number cancel	





- *: Depending on number of recorded songs or chapters, you don't need to use "ENTER" button.
- Search mode does not operate during program or random playback.
 Use ⊕, ⊕ 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 (s), and then select "Marker".

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



2 Use (3 (2) to select the number.



※ Numbers you have already set will be displayed as " ✓".

3 Press (BUEF) 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 displayed.



☐ To Play Back Memorized Locations

Use to select the marker number, then press

☐ To erase markers

Select the number you want to erase, and then press (CLR).

☐ To erase all markers

Select "AC" and press (BUTER)



(1) (2) (3) (

4 5 6

ANGLE SUBTITLE AUDIO

MODE ALL A-B XX

- Subtitles may not appear depending on the locations you have memorized.
- 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.

Fast Forward/Fast Reverse



During playback, press ⊕ or ⊕.

- 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 (





- 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



Press (11) during pause.

The disc advances frame by frame each time the button is pressed.



* Resume normal playback by pressing ()



- Step-by-step reverse playback is not available with the UD8004.
- If the video is shaky during step-by-step playback, stop playback, press then on the GUI menu, change "Display Setup" "Still Mode" "Field" (Prage 29).



Slow Forward/Slow Reverse Playback



Press • during pause.

The speed changes each time the button is pressed.



- * The speed of the slow reverse playback is not switched.
- * Resume normal playback by pressing ().



- 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 , then on the GUI menu, change "Display Setup" "Still Mode" "Field" (**) page 29).

Playback in Any Order (Random Playback)

SA-CD CD SD MP3 WMA AAC LPCM DivX

Press during stop.
The "RAND" lights on the display and "Random Mode" is displayed on the screen.

2 Press • to play back.



☐ Resuming Normal Playback

Press (\infty) during stop.



Random playback may not be enabled depending on the disc.

Playing Back Repeatedly (Repeat Playback)



Press during playback.

The repeat mode icon is displayed at the top of the screen.

• The repeat mode changes each time the button is pressed.



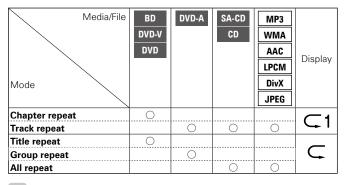
2 Press (ALL) to select the repeat mode.

*To resume normal playback, press ALL, and select "Repeat Off".



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.

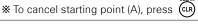
Repeat Playback Between Specified Points (A-B Repeat)

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

During playback, press (A-B) at the desired starting point (A).

The "A-" indicator will light on the display.

CLEAR



Press the (AB) again at the desired ending point (B).

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

**To resume normal playback, press (A-B), 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[®] file.

Playing Back in Your Preferred Order (Program Playback) SA-CD CD

You can program up to a maximum of 20 tracks.

1 Press oduring stop.

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



(10) (O) CALL CLR

2 Enter the track numbers you want to program on the program setting screen. 1 2 3 6 6 7 8 9



3 Press **.** Playback begins in the programmed order.

☐ Checking the Program Contents

Press 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 (ALL) during stop.

☐ Erasing Programmed Tracks One by One

Press (CLR) during stop.

☐ Erasing All Programmed Contents



Switching Audio

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

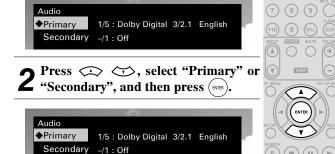
DVD-V

With BD, you can set sub-track audio such as interactive audio and commentary audio, etc., with "Secondary".

Switching a BD's Primary Audio/Secondary Audio

During playback of an Primary Audio/Secondary Audio title, press

The audio number currently being played is displayed.



 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 31), "Secondary" audio is not output.

3 Select your desired audio language with \Leftrightarrow \Leftrightarrow .







ANGLE SUBTITLE AUDIO
(O)) PAGE

- 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" (Prage 31) 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)

Press (a) during playback.

The audio number currently being played is displayed.

(Example) DVD



Use 🖎 🤝 to select audio [Example] DVD-Video



Press (O)). The setup screen disappears.



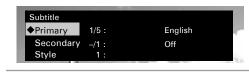
- With DVD-R/-RW with bilingual soundtrack recording, you can switch between "Main" (main audio) and "Sub" (secondary audio) or "Main/Sub" (main audio + secondary audio).
- In CD audio mode, you can switch "Stereo", "L-ch" (left channel) or "R-ch" (right channel).
- With a DivX® file, "MP3" or "Dolby 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 BD DVD-V SD DivX

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

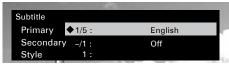
Press () during playback. The subtitle number currently being played is displayed.



With \Leftrightarrow \Leftrightarrow , select "Primary", "Secondary" and "Style", and then press (ENTER).



3 Use to select your desired subtitle language and subtitle style. and subtitle style.



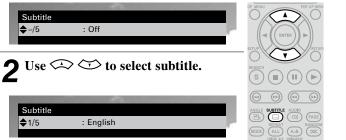
Press SUBTITLE . The setup screen disappears.



- If a disc does not include subtitles and subtitle style, "Not Available"
- Depending on the disc, subtitle switching may be restricted to operation of the disc menu. In this case, switch the subtitles on the disc menu.

Selecting DVD-Video and DivX® file Subtitle







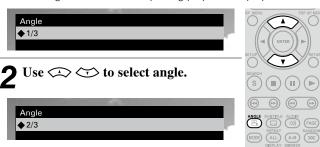
With a DivX® file, the currently playing subtitle number and number of recorded subtitles are displayed, the language option is not displayed.

Switching the Angle

BD DVD-V

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

1 Press during playback.
The angle number currently being played is displayed.



Press .
The setup screen disappears.

NOTE

Angle changing may be restricted, depending on the disc.

Changing the Brightness of the Display (Dimmer Control)

Press DIMMER DIMM.

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 29).

HDMI Control Function

When you make an HDMI connection with a TV or AV Amp compatible with UD8004 and HDMI control functions, you can perform the following operations by setting the HDMI control function of each device.

- ☐ TV or AV Amp power is turned on by operating the UD8004, and functions change with UD8004 input.
- ☐ Turning off the TV's power turns the UD8004's power to standby.
- ☐ Operating the UD8004 via the TV's remote control.

(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" (Papage 30), the player's power cannot be turned on using the HDMI control function.
- When "HDMI Setup" "HDMI Control" "Power Off Control" on the GUI menu is set to "Off" (Tpage 24), the UD8004 is not set to standby even if the connected device is in the standby mode.

Set HDMI control function to "On".

On the GUI menu, set "HDMI Setup" – "HDMI Control" (FF page 24)

2 Turn the power on for all the equipment connected by HDMI cable.

3 Set the HDMI control function for all equipment connected by HDMI cable.

On the GUI menu, set the UD8004 with "HDMI Setup" – "HDMI Control" (1287 page 24).

- * Please refer to the owner's manual as regards setting of connected devices
- * Carry out Steps 2 and 3 should any of the equipment be unplugged.
- To ensure that the UD8004's HDMI video output is projected on the TV screen, change the input function of the TV and AV Amp.
- **5** When you turn the TV's power to standby, check that the power of the UD8004 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?
- 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 again.

Other Information

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	SDHC-logo is het handelsmerk.	

Language Code List

	Language	Code
Α	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
	Bulgarian	4853
	Burmese	5971
	Byelorussian	4851
С	Cambodian	5759
	Catalan	4947
	Chinese	7254
	Corsican	4961
	Croatian	5464
	Czech	4965
D	Danish	5047
	Dutch	6058
Ε	English	5160
	Esperanto	5161
	Estonian	5166
F	Faroese	5261
	Fiji	5256
	Finnish	5255
	French	5264
	Frisian	5271
G	Galician	5358
	Georgian	5747
	German	5051
	Greek	5158
	Greenlandic	5758
	Guarani	5360
	Gujarati	5367
Н	Hausa	5447
	Hebrew	5569
	Hindi	5455
	Hungarian	5467

	Language	Code
-	Icelandic	5565
	Indonesian	5560
	Interlingua	5547
	Interlingue	5551
	Inupiak	5557
	Irish	5347
	Italian	5566
J	Japanese	5647
	Javanese	5669
Κ	Kannada	5760
	Kashmiri	5765
	Kazakh	5757
	Kinyarwanda	6469
	Kirghiz	5771
	Kirundi	6460
	Korean	5761
	Kurdish	5767
L	Laothian	5861
_	Latin	5847
	Latvian; Lettish	5868
	Lingala	5860
	Lithuanian	5866
м	Macedonian	5957
	Malagasy	5953
	Malay	5965
	Malayalam	5958
	Maltese	5966
	Maori	5955
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	Moldavian	5961
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N	Nauru	6047
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•	Oriya	6164
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Р	Panjabi	6247
•	Pashto; Pushto	6265
	Persian	5247
	Polish	6258
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Ω	Quechua	6367
R	Rhaeto-Romance	6459
ň	Romanian	6461
	Russian	6467
	าเนออเตา	0407

	Language	Code
S	Samoan	6559
	Sangho	6553
	Sanskrit	6547
	Scots Gaelic	5350
	Serbian	6564
	Serbo-Croatian	6554
	Sesotho	6566
	Setswana	6660
	Shona	6560
	Sindhi	6550
	Singhalese	6555
	Siswat	6565
	Slovak	6557
	Slovenian	6558
	Somali	6561
	Spanish	5165
	Sundanese	6567
	Swahili	6569
	Swedish	6568
Т	Tagalog	6658
	Tajik	6653
	Tamil	6647
	Tatar	6666
	Telugu	6651
	Thai	6654
	Tibetan	4861
	Tigrinya	6655
	Tonga	6661
	Tsonga	6665
	Turkish	6664
	Turkmen	6657
	Twi	6669
J	Ukrainian	6757
	Urdu	6764
	Uzbek	6772
V	Vietnamese	6855
	Volapuk	6861
N	Welsh	4971
	Wolof	6961
X	Xhosa	7054
Υ	Yiddish	5655
	Yoruba	7161
Z	Zulu	7267

Country Code List

	Country	Code
Α	AFGHANISTAN	AF
	ÅLAND ISLANDS	AX
	ALBANIA	AL
	ALGERIA	DZ
	AMERICAN SAMOA	AS
	ANDORRA	AD
	ANGOLA	AO
	ANGUILLA	Al
	ANTARCTICA	AQ
	ANTIGUA AND BARBUDA	AG
	ARMENIA	AM
	ARUBA	AW
	AZERBAIJAN	AZ
В	BAHAMAS	BS
	BAHRAIN	BH
	BANGLADESH	BD
	BARBADOS	BB
	BELARUS	BY
	BELIZE	BZ
	BENIN	BJ
	BERMUDA	BM
	BHUTAN	BT
	BOLIVIA	ВО
	BOSNIA AND HERZEGOVINA	BA
	BOTSWANA	BW
	BOUVET ISLAND	BV
	BRITISH INDIAN OCEAN TERRITORY	IO
	BRUNEI DARUSSALAM	BN
	BUI GARIA	BG
	BURKINA FASO	BF
	BURUNDI	BI
С	CAMBODIA	KH
_	CAMEROON	CM
	CAPE VERDE	CV
	CAYMAN ISLANDS	KY
	CENTRAL AFRICAN	CF
	REPUBLIC	
	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

	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	GΩ
	ERITREA	ER
	ESTONIA	EE
	FTHIOPIA	FT
F	FALKLAND ISLANDS	
г	(MALVINAS)	FK
	FAROE ISLANDS	FO
	FIJI	FJ
	FRENCH GUIANA	GF
	FRENCH POLYNESIA	PF
	FRENCH SOUTHERN	
	TERRITORIES	TF
G	GABON	GA
_	GAMBIA	GM
	GEORGIA	GE
	GHANA	GH
	GIBRALTAR	GI
	GREENLAND	GL
	GRENADA	GD
	GUADELOUPE	GP
	GUAM	GU
		GT
	GUATEMALA	
	GUERNSEY	GG
	GUINEA	GN
	GUINEA-BISSAU	GW
	GUYANA	GY
Н	HAITI	HT
	HEARD ISLAND AND	HM
	MCDONALD ISLANDS	
	HOLY SEE (VATICAN CITY STATE)	VA
	HONDURAS	HN
	HUNGARY	HU
1	ICELAND	IS
•	IRAN, ISLAMIC REPUBLIC	
	OF	IR
	IRAQ	IQ
	ISLE OF MAN	IM
	ISRAEL	IL
J	JAMAICA	JM
J	JERSEY	JE
	JLIIJLI	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	MK
	YUGOSLAV REPUBLIC OF	
	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
Ν	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
0	ISLANDS OMAN	OM
P	PALAU	PW
•	PALESTINIAN TERRITORY,	
	OCCUPIED	PS
	PANAMA	PA
	PAPUA NEW GUINEA	PG
	PARAGUAY	PY
	PERU	PE
	PITCAIRN	PN
	PUERTO RICO	PR
Q	QATAR	QA
R	RÉUNION	RE
	ROMANIA	RO
	RWANDA	RW
S	SAINT BARTHÉLEMY	BL
	SAINT HELENA	SH
	SAINT KITTS AND NEVIS	KN
	SAINT LUCIA	LC
	SAINT MARTIN	MF
	SAINT PIERRE AND MIQUELON	PM
	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	ZA
	SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS	GS
	SRI LANKA	LK
	SUDAN	SD
	SURINAME	SR
	SVALBARD AND JAN	SJ
	MAYEN SWAZILAND	SZ
	SYRIAN ARAB REPUBLIC	SZ SY
	STRIAN ARAB REPUBLIC	31

	Country	Code
Т	TAJIKISTAN	TJ
	TANZANIA, UNITED	TZ
	REPUBLIC OF	TI
	TIMOR-LESTE TOGO	TG
	TOKFI AU	TK
	TONGA	TO
	TRINIDAD AND TOBAGO	TT
	TUNISIA	TN
	TURKEY	TR
	TURKMENISTAN	TM
	TURKS AND CAICOS	IIVI
	ISI ANDS	TC
	TUVALU	TV
U	UGANDA	UG
	UKRAINE	UA
	UNITED ARAB EMIRATES	AE
	UNITED STATES MINOR	UM
	OUTLYING ISLANDS	
	URUGUAY	UY
	UZBEKISTAN	UZ
V	VANUATU	VU
	VATICAN CITY STATE	VA
	VENEZUELA	VE
	VIET NAM	VN
	VIRGIN ISLANDS, BRITISH	VG
	VIRGIN ISLANDS, U.S.	VI
W	WALLIS AND FUTUNA	WF
	WESTERN SAHARA	EH
-	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 UD8004, 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 UD8004, this function cuts left and right of the played back image to the 4:3 size according to the disc's control information.

Α

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 16:9.

В

BD-J (Java)

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

BD-LIVE

The UD8004 can be connected to the Internet to enjoy a number of features, including additional contents such as special videos or subtitles, network games, etc.

Bit rate

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.

С

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.

D

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 UD8004, 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 Bluray disc.

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.

DTS

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.

HDCP

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

HDMI

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)

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.

I FF

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.

Linear PCM

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.

M

MPEG

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.

F

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.

R

Rating

Depending on the age of the viewer, this function restricts playing back of BD-Video or DVD-Video. UD8004 can be set to restrict viewing in 0 to 254 level for BD-Video, and 1 to 8 level for DVD-Video.

Region code

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

S

Secondary audio

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

T

Title

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	Check if the power cord is properly connected.	20
on.	Plug the power supply cord into the power outlet.	_
	• The safety protection device may be activated. Unplug the power	-
	cord once, and wait for 5-10 seconds and then plug it in again.	
	• UD8004 enters the standby status by safety function when the	3, 9
	fan stops. Check the back of the set if something is disturbing the fan rotation.	
Unable to play back	Does the SD Memory Card has more than 1 GB of available	4, 35
BD-LIVE / bonus view.	space?	,
	Has the SD Memory Card been initialized by the UD8004?	30
	• Was the SD Memory Card inserted while the power of the unit	4, 35
	is on. (Insert the SD Memory Card while the UD8004 is in the standby status.)	
	Remove the write protection of an SD Memory Card.	_
Picture does not	• Switch the TV's input setting to the external input connected to	=
appear.	the player.	
	• Is the Pure Direct function set to "On"? Set to "Off".	28, 37
	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".	
	• Is HDMI mode set to "HDMI On"? In this case, video signals are	13
	output from the video, S-Video and HDMI terminals, but not from the component terminals.	10
	Check the connection of the video/S-Video/component video	17
	cable.	17
	• Is the GUI menu "HDMI Setup" – "I/P Direct" set to "On"? In this case,	23
	no video signals are output from the video and S-Video terminals	
	during playback of certain discs.	
	• Does the "Video Setup" – "Component Resolution" setting on the	24
	GUI menu match the connected device's resolution? Set it so that	
	it matches.	

Symptom	Cause / Countermeasure	Page
Video and audio are not output with HDMI connection.	 Check the connection of the HDMI cable. Is the "HDMI" indicator of the display of the UD8004 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". 	13 8 28, 37
	 Is HDMI mode set to "HDMI Off"? In this case, video signals are output from the video and S-Video terminals, but not from the HDMI terminal. 	13
	 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, AV Amp, etc. 	15
	Check that the setting of the HDMI video resolution supports the resolution of the connected device. When set to "Auto", UD8004 makes the setting automatically.	13
HD audio is not output.	Set "BD Audio Mode" to "HD Audio Output".	31
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 UD8004'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. 	17
	• Is a disc that is not compatible with the player or a disc with a different region number loaded? (This player supports region code "A" for BD-Video discs, "1" or "ALL" for DVD-Video discs.)	3
	• Is the GUI menu "HDMI Setup" – "I/P Direct" set to "On"? In this case, no video signals are output from the video and S-Video terminals during playback of certain discs.	23

Symptom	Cause / Countermeasure	Page
No sound is heard or the sound is hard to	Check the devices whose audio is connected and the speaker connections.	11 ~ 20
hear.	• Is the power of devices whose audio is connected turned on? Is the input selection set to the input to which the UD8004 is connected?	=
	• Is the audio output properly selected?	13 ~ 20
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. There may be a problem with the data recorded on the disc.	6
Playback does not start even when ► is	• Is there condensation inside the player or on the disc? (Let set for 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
	• Is an unplayable disc loaded?	3, 4
Subtitles are not displayed.	• Subtitles cannot be displayed for BD-Video, DVD-Video or DivX [®] files that do not contain subtitles.	45
	• Is the subtitle setting "Off"? Use a disc menu or to set the displayed subtitle.	23
SD Memory Card cannot be read.	• The format of the card does not match to this unit or the card is not compatible.	30
	• Is the playback media mode set to "SD CARD MODE"? Select "SD CARD MODE" at	33
No return to start-up screen when disc is removed.	• There may be an internal error. Set the power to standby, wait 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 5 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 ⊕ and ⊖ marks. 	7
	Make the signal code of the remote control match to the signal code of the unit.	7

Symptom	Cause / Countermeasure	Page
Buttons do not work or the unit stops responding.	Operations may not be permitted by the disc. The safety protection device may be activated. Unplug the power cord once, and wait for 5-10 seconds and then plug it in again. Befer to the instructions of the disc.	-
Playable disc is not read.		-
Angle does not switch.	• 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.	46
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.	28
The password for rating level has been forgotten.	On the GUI menu, perform the "Other Setup" – "Initialize" procedure.	30



- 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:

NTSC

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: 1 Vp-p (75 Ω/ohms)

> C output level: 0.286 Vp-p Output terminal: S-Video, 1 set

Output level: 1 Vp-p (75 Ω/ohms) Output terminal: Pin-jack, 1 set

Component video output: Y output level: 1 Vp-p (75 Ω/ohms)

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

Output terminal: Pin-iack, 1 set

HDMI output: Output terminal: 19-pin HDMI terminals, 1 set

HDMI ver. 1.3a

(Deep Colour, Dolby Digital Plus, Dolby TrueHD, DTS-HD)

Output level: 2.3 Vrms (10 kΩ/kohms) Analog audio output : 2 channels output terminal: Pin-jack, 1 set

7.1 channels output terminal: Pin-jack, 1 set

Audio output characteristics : (1) Frequency response

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

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

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

: 2 Hz ~ 44 kHz (96 kHz sampling)

: 2 Hz ~ 88 kHz (192 kHz sampling)

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

(2) S/N ratio: 120 dB

(3) Total harmonic distortion: 1kHz 0.0015 %

(4) Dynamic range: 110 dB (5) Channel separation: 110 dB

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: 55 W

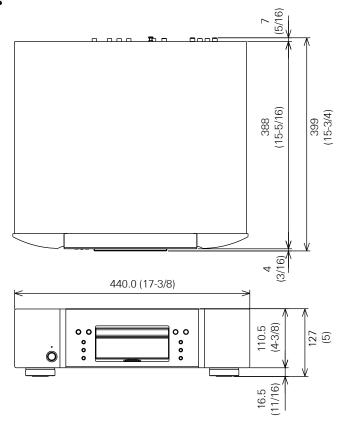
• When in Power Saving Standby: 0.3 W (Prower Saving")

• When in Normal Standby: 0.8 W

· When in Quick Start Mode:

20 ~ 35 W (Changes according to connection status, etc.)

□ Dimensions



■ Weight : 8.5 kg (18.7 lbs)

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

_icense

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

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

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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

JPEG.

ARCHIVE LOCATIONS Where to find newer versions of

this software.

RELATED SOFTWARE
FILE FORMAT WARS
TO DO

Other stuff you should get.
Software *not* to get.
Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc How to configure and install the

IJG software.

usage.doc Usage instructions for cjpeg,

djpeg, jpegtran, rdjpgcom, and

wrjpgcom.

Unix-style man pages for programs (same info as usage.

doc).

wizard.doc Advanced usage instructions for

JPEG wizards only.

change.log Version-to-version change

highlights.

Programmer and internal documentation:

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

if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG 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.

OVERVIEW

*.1

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jaypeg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" 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, extendedsequential, 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

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 formats

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 "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF 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 it.

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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 M.I.T. 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 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.

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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/jpeg/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 1-55851-434-1. 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, you've got 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 pp.

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, ITU-T T.81. 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, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. 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 JFIF 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. qz, 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.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. 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.sgi.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/ jpeg. This particular version will be archived as ftp://ftp.uu.net/araphics/jpeg/ipegsrc.v6b.tar.cz.

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.uu.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/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

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RELATED SOFTWARE

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 JFIF 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 capable of reading JFIF 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!

TÓ DO

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@

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Glenn Randers-Pehrson glennrp@users.sourceforge.net August 15, 2004

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· devel@freetype.org

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

http://www.freetype.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:

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