# DENON

# UNIVERSAL AUDIO / VIDEO PLAYER

# **DBP-4010UD**

Owner's Manual Bedienungsanleitung Manuel de l'Utilisateur Manuale delle istruzioni Manual del usuario Gebruiksaanwijzing **Bruksanvisning** 

**\* Button illustrations used in this manual** for operation explanation are for the Remote Control Unit.

You can operate the unit using the button of the same name on the front panel of the unit.

- \* Die in diesem Handbuch verwendeten Tasten-Illustrationen für Betriebserklärung beziehen sich auf die Fernbedienung.
- Sie können das Gerät mit der gleichnamigen Taste an der Frontkonsole des Gerätes bedienen.
- \* Les illustrations des boutons présentes dans ce manuel servent à expliquer le fonctionnement de la télécommande. Vous pouvez contrôler l'appareil à l'aide du bouton portant le même nom sur la facade de l'appareil.
- \* Le illustrazioni dei pulsanti mostrate in questo manuale di spiegazione si riferiscono al telecomando.

E' possibile adoperare l'unità utilizzando i pulsanti del nome corrispondente presenti sul pannello frontale dell'unità.

- \* Las ilustraciones de los botones utilizadas en este manual con propósitos de explicación son para la unidad del mando a distancia.
- Puede operar la unidad utilizando el botón del mismo nombre en el panel delantero de la unidad.
- \* De gebruikte toetsillustraties in deze handleiding voor uitleg van de bediening zijn voor de afstandsbediening.
  - U kunt het toestel bedienen door de toets met dezelfde naam op het voorpaneel van het toestel te gebruiken.
- \* Bilder på knappar i denna bruksanvisning för att förklara användningen gäller fiärrkontrollen.

Du kan också använda knapparna med samma namn på frontpanelen på enheten.



# GUI Graphical User Interface

#### English

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

GUI Menu Operation (@page 22)

#### Deutsch

Verwenden Sie dieses Handbuch zusammen mit den Bedienungsanweisungen auf dem GUI-Bildschirm.

GUI-Menübedienung (@ Seite 22)

#### Français

Utilisez ce manuel en même temps que le guide d'utilisation affiché sur l'écran GUI (Interface graphique).

Fonctionnement du menu de l'interface graphique GUI (@ page 22)

#### Italiano

Usare questo manuale insieme alla guida operativa visualizzata sulla schermata GUI.

Operazioni menu GUI (@pagina 22)

Utilice este manual conjuntamente con la guía de uso que aparece en la pantalla GUI.

Uso de los menús GUI (@página 22)

#### Nederlands

Gebruik deze gebruiksaanwijzing samen met de aanwijzingen die op het GUI-scherm worden

Het GUI menu bedienen (@ blz. 22)

#### Svenska

Använd denna bruksanvisning i kombination

anvisningarna på GUI-skärmen.

Användning av GUI-menyerna (@sidan 22)

#### **□** 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.

CLASS 1 LASER PRODUCT LUOKAN 1 LASERLAITE KLASS 1 LASERAPPARAT

> "CLASS 1 LASER PRODUCT"

ADVARSEL: USYNLIG LASERSTRÅLING VED ÅBNING, NÅR

SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION.

UNDGÅ UDSAETTELSE FOR STRÅLING.

VAROITUS! LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ

KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄMTTÖMÄLLE LASERSÄTEILYLLE.

VARNING: OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA

BRUKSANVISNING SPECIFICERATS, KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.



ATTENZIONE: QUESTO APPARECCHIO E' DOTATO DI DISPOSITIVO OTTICO CON RAGGIO LASER.
L'USO IMPROPRIO DELL'APPARECCHIO PUO' CAUSARE PERICOLOSE ESPOSIZIONI A RADIAZIONI!

# 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.
- 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.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 10. Only use attachments/accessories specified by the manufacturer.
- 11. 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.
- 12. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13. 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.
- 14. Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

#### **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.

#### VORSICHT:

Um dieses Gerät vollständig von der Stromversorgung abzutrennen, ziehen Sie bitte den Stecker aus der Wandsteckdose.

Der Netzstecker wird verwendet, um die Stromversorgung zum Gerät völlig zu unterbrechen; er muss für den Benutzer gut und einfach zu erreichen sein.

#### 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.

#### ATTENZIONE:

Per scollegare completamente questo prodotto dalla rete di alimentazione elettrica, scollegare la spina dalla relativa presa a muro.

La spina di rete viene utilizzata per interrompere completamente l'alimentazione all'unità e deve essere facilmente accessibile all'utente.

#### 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.

#### **WAARSCHUWING:**

Om de voeding van dit product volledig te onderbreken moet de stekker uit het stopcontact worden getrokken.

De netstekker wordt gebruikt om de stroomtoevoer naar het toestel volledig te onderbreken en moet voor de gebruiker gemakkelijk bereikbaar zijn.

#### FÖRSIKTIHETSMÅTT:

Koppla loss stickproppen från eluttaget för att helt skilja produkten från nätet.

Stickproppen används för att helt bryta strömförsörjningen till apparaten, och den måste vara lättillgänglig för användaren.

#### **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.

# □ NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION / NOTE SULL'USO / NOTAS SOBRE EL USO / ALVORENS TE GEBRUIKEN / OBSERVERA ANGÅENDE ANVÄNDNINGEN



· Avoid high temperatures.

Allow for sufficient heat dispersion when installed in a rack.

Vermeiden Sie hohe Temperaturen.

Beachten Sie, dass eine ausreichende Belüftung gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird.

· Eviter des températures élevées.

Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère.

Evitate di esporre l'unità a temperature elevate.

Assicuratevi che vi sia un'adeguata dispersione del calore quando installate l'unità in un mobile per componenti audio.

Evite altas temperaturas.

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

· Vermijd hoge temperaturen.

Zorg er bij installatie in een audiorack voor, dat de door het toestel geproduceerde warmte goed kan worden afgevoerd.

Undvik höga temperaturer.

Se till att det finns möjlighet till god värmeavledning vid montering i ett rack.



- Handle the power cord carefully.
- Hold the plug when unplugging the cord.
- Gehen Sie vorsichtig mit dem Netzkabel um.
   Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen.
- Manipuler le cordon d'alimentation avec précaution.
   Tenir la prise lors du débranchement du cordon.
- Manneggiate il cavo di alimentazione con attenzione.
- Tenete ferma la spina quando scollegate il cavo dalla presa.

   Maneie el cordón de energía con cuidado.
- Sostenga el enchufe cuando desconecte el cordón de energía.
- · Hanteer het netsnoer voorzichtig.
- Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld.
- Hantera nätkabeln varsamt.

Håll i kabeln när den kopplas från el-uttaget.



- Keep the unit free from moisture, water, and dust.
- Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern.
- Protéger l'appareil contre l'humidité, l'eau et la poussière.
   Tenete l'unità lontana dall'umidità, dall'acqua e dalla
- Mantenga el equipo libre de humedad, agua y polvo.
- Laat geen vochtigheid, water of stof in het apparaat binnendringen.
- Utsätt inte apparaten för fukt, vatten och damm.



- Unplug the power cord when not using the unit for long periods of time.
- Wenn das Gerät längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker.
- Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes.
  Scollegate il cavo di alimentazione quando prevedete di
- non utilizzare l'unità per un lungo periodo di tempo.

   Desconecte el cordón de energía cuando no utilice el
- equipo por mucho tiempo.
  Neem altijd het netsnoer uit het stopkontakt wanneer het apparaat gedurende een lange periode niet wordt gebruikt.
- Koppla loss nätkabeln om apparaten inte kommer att användas i lång tid.



- \* (For apparatuses with ventilation holes)
- Do not obstruct the ventilation holes.
- Decken Sie den Lüftungsbereich nicht ab.
- Ne pas obstruer les trous d'aération.
- · Non coprite i fori di ventilazione.
- · No obstruya los orificios de ventilación.
- · De ventilatieopeningen mogen niet worden beblokkeerd.
- Täpp inte till ventilationsöppningarna.



- Do not let foreign objects into the unit.
- Lassen Sie keine fremden Gegenstände in das Gerät kommen.
- Ne pas laisser des objets étrangers dans l'appareil.
- Non inserite corpi estranei all'interno dell'unità.
  No deje objetos extraños dentro del equipo.
- Laat geen vreemde voorwerpen in dit apparaat vallen.
- Se till att främmande föremål inte tränger in i apparaten.



- Do not let insecticides, benzene, and thinner come in contact with the unit.
- Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen.
- Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil.
- Assicuratevi che l'unità non entri in contatto con insetticidi, benzolo o solventi.
- No permita el contacto de insecticidas, gasolina diluyentes con el equipo.
- Voorkom dat insecticiden, benzeen of verfverdunner met dit toestel in contact komen.
- Se till att inte insektsmedel på spraybruk, bensen och thinner kommer i kontakt med apparatens hölje.



- Never disassemble or modify the unit in any way.
- Versuchen Sie niemals das Gerät auseinander zu nehmen oder zu verändern.
- Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre.
- Non smontate né modificate l'unità in alcun modo.
- Nunca desarme o modifique el equipo de ninguna manera.
- Dit toestel mag niet gedemonteerd of aangepast worden.
- Ta inte isär apparaten och försök inte bygga om den

#### 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

#### ACHTUNG:

- Die Belüftung sollte auf keinen Fall durch das Abdecken der Belüftungsöffnungen durch Gegenstände wie beispielsweise Zeitungen, Tischtücher, Vorhänge o. Ä. behindert werden.
- Auf dem Gerät sollten keinerlei direkte Feuerquellen wie beispielsweise angezündete Kerzen aufgestellt werden.
- Bitte beachten Sie bei der Entsorgung der Batterien die örtlich geltenden Umweltbestimmungen.
- Das Gerät sollte keiner tropfenden oder spritzenden Flüssigkeit ausgesetzt werden.
- Auf dem Gerät sollten keine mit Flüssigkeit gefüllten Behälter wie beispielsweise Vasen aufgestellt werden.

#### 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.

#### ATTENZIONE:

- Le aperture di ventilazione non devono essere ostruite coprendole con oggetti, quali giornali, tovaglie, tende e così via.
- Non posizionate sull'unità fiamme libere, come ad esempio candele accese.
- Prestate attenzione agli aspetti legati alla tutela dell'ambiente nello smaltimento delle batterie.
- L'apparecchiatura non deve essere esposta a gocciolii o spruzzi.
- Non posizionate sull'unità alcun oggetto contenente liquidi, come ad esempio i vasi.

#### 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.

#### WAARSCHUWING:

- De ventilatie mag niet worden belemmerd door de ventilatieopeningen af te dekken met bijvoorbeeld kranten, een tafelkleed, gordijnen, enz.
- Plaats geen open vlammen, bijvoorbeeld een brandende kaars, op het apparaat.
- Houd u steeds aan de milieuvoorschriften wanneer u gebruikte batterijen wegdoet.
- Stel het apparaat niet bloot aan druppels of spatten.
- Plaats geen voorwerpen gevuld met water, bijvoorbeeld een vaas, op het apparaat.

#### OBSERVERA:

- Ventilationen bör inte förhindras genom att täcka för ventilationsöppningarna med föremål såsom tidningar, bordsdukar, gardiner osv.
- Inga blottade brandkällor, såsom tända ljus, får placeras på apparaten.
- Tänk på miljöaspekterna när du bortskaffar batterier.
- Apparaten får inte utsättas för vätska.
- Placera inte föremål fyllda med vätska, t.ex. vaser, på apparaten.

#### DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards: EN60065, EN55013, EN55020, EN61000-3-2 and EN61000-3-3. Following the provisions of 2006/95/EC and 2004/108/EC Directive.

#### ÜBEREINSTIMMUNGSERKLÄRUNG

Wir erklären unter unserer Verantwortung, daß dieses Produkt, auf das sich diese Erklärung bezieht, den folgenden Standards entspricht: EN60065, EN55013, EN55020, EN61000-3-2 und EN61000-3-3. Entspricht den Verordnungen der Direktive 2006/95/EC und 2004/108/EC.

#### DECLARATION DE CONFORMITE

Nous déclarons sous notre seule responsabilité que l'appareil, auquel se réfère cette déclaration, est conforme aux standards suivants: EN60065, EN55013, EN55020, EN61000-3-2 et EN61000-3-3. D'après les dispositions de la Directive 2006/95/EC et 2004/108/EC.

#### DICHIARAZIONE DI CONFORMITÀ

Dichiariamo con piena responsabilità che questo prodotto, al quale la nostra dichiarazione si riferisce, è conforme alle seguenti normative: EN60065, EN55013, EN55020, EN61000-3-2 e EN61000-3-3. In conformità con le condizioni delle direttive 2006/95/EC e 2004/108/EC. QUESTO PRODOTTO E' CONFORME AL D.M. 28/08/95 N. 548

#### DECLARACIÓN DE CONFORMIDAD

Declaramos bajo nuestra exclusiva responsabilidad que este producto al que hace referencia esta declaración, está conforme con los siguientes estándares:

EN60065, EN55013, EN55020, EN61000-3-2 y EN61000-3-3. Siguiendo las provisiones de las Directivas 2006/95/EC y 2004/108/EC.

#### EENVORMIGHEIDSVERKLARING

Wij verklaren uitsluitend op onze verantwoordelijkheid dat dit produkt, waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende normen:

EN60065, EN55013, EN55020, EN61000-3-2 en EN61000-3-3. Volgens de bepalingen van de Richtlijnen 2006/95/EC en 2004/108/EC.

#### ÖVERENSSTÄMMELSESINTYG

Härmed intygas helt på eget ansvar att denna produkt, vilken detta intyg avser, uppfyller följande standarder:

EN60065, EN55013, EN55020, EN61000-3-2 och EN61000-3-3. Enligt stadgarna i direktiv 2006/95/EC och 2004/108/EC.

> DENON EUROPE Division of D&M Germany GmbH An der Landwehr 19, Nettetal, D-41334 Germany

#### A NOTE ABOUT RECYCLING:

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

When discarding the unit, comply with local rules or regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with the local regulations concerning battery disposal.

This product and the supplied accessories, excluding the batteries, constitute the applicable product according to the WEEE directive.

#### **HINWEIS ZUM RECYCLING:**

Das Verpackungsmaterial dieses Produktes ist zum Recyceln geeignet und kann wieder verwendet werden. Bitte entsorgen Sie alle Materialien entsprechend der örtlichen Recycling-Vorschriften. Beachten Sie bei der Entsorgung des Gerätes die örtlichen Vorschriften und Bestimmungen.

Die Batterien dürfen nicht in den Hausmüll geworfen oder verbrannt werden; bitte entsorgen Sie die Batterien gemäß der örtlichen Vorschriften.

Dieses Produkt und das im Lieferumfang enthaltene Zubehör (mit Ausnahme der Batterien!) entsprechen der WEEE-Direktive.

#### **UNE REMARQUE CONCERNANT LE RECYCLAGE:**

Les matériaux d'emballage de ce produit sont recyclables et peuvent être réutilisés. Veuillez disposer des matériaux conformément aux lois sur le recyclage en vigueur.

Lorsque vous mettez cet appareil au rebut, respectez les lois ou réglementations en viqueur.

Les piles ne doivent jamais être jetées ou incinérées, mais mises au rebut conformément aux lois en vigueur sur la mise au rebut des piles.

Ce produit et les accessoires inclus, à l'exception des piles, sont des produits conformes à la directive DEEE.

#### **NOTA RELATIVA AL RICICLAGGIO:**

I materiali di imballaggio di questo prodotto sono riutilizzabili e riciclabili. Smaltire i materiali conformemente alle normative locali sul riciclaggio.

Per lo smaltimento dell'unità, osservare le normative o le leggi locali in vigore.

Non gettare le batterie, né incenerirle, ma smaltirle conformemente alla normativa locale sui rifiuti chimici.

Questo prodotto e gli accessori inclusi nell'imballaggio sono applicabili alla direttiva RAEE, ad eccezione delle batterie.

#### **ACERCA DEL RECICLAJE:**

Los materiales de embalaje de este producto son reciclables y se pueden volver a utilizar. Disponga de estos materiales siguiendo los reglamentos de reciclaje de su localidad.

Cuando se deshaga de la unidad, cumpla con las reglas o reglamentos locales.

Las pilas nunca deberán tirarse ni incinerarse. Deberá disponer de ellas siguiendo los reglamentos de su localidad relacionados con los desperdicios químicos.

Este producto junto con los accesorios empaquetados es el producto aplicable a la directiva RAEE excepto pilas.

#### EEN AANTEKENING MET BETREKKING TOT DE RECYCLING:

Het inpakmateriaal van dit product is recycleerbaar en kan opnieuw gebruikt worden. Er wordt verzocht om zich van elk afvalmateriaal te ontdoen volgens de plaatselijke voorschriften.

Volg voor het wegdoen van de speler de voorschriften voor de verwijdering van wit- en bruingoed op.

Batterijen mogen nooit worden weggegooid of verbrand, maar moeten volgens de plaatselijke voorschriften betreffende chemisch afval worden verwijderd.

Op dit product en de meegeleverde accessoires, m.u.v. de batterijen is de richtlijn voor afgedankte elektrische en elektronische apparaten (WEEE) van toepassing.

#### **OBSERVERA ANGÅENDE ÅTERVINNING:**

Produktens emballage är återvinningsbart och kan återanvändas. Kassera det enligt lokala återvinningsbestämmelser.

När du kasserar enheten ska du göra det i överensstämmelse med lokala regler och bestämmelser.

Batterier får absolut inte kastas i soporna eller brännas. Kassera dem enligt lokala bestämmelser för kemiskt avfall. Denna apparat och de tillbehör som levereras med den uppfyller gällande WEEE-direktiv, med undantag av batterierna.







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# **Features**

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

page 3, 4 "Playable Media"

# Jitter-free transmission owing to a fusion of DENON LINK 4th and HDMI transmission technology

In addition to multi-channel digital balance transmission of Super Audio CD that was achieved in 3rd , DENON LINK 4th provides the jitter control functionality during digital signal transmission.

page 17 "DENON LINK Connection ① Making a Jitter-free Connection"

# 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"

# "Advanced AL24 Processing" installed on all channels to enhance HD audio performance

Detailed picture rendering with minimal distortion; accurate sound localization and rich bass.

Achieves playback more faithful to the original sound on all channels.

# GUI installed with excellent operability and visibility

page 22 "GUI Menu Operation"

#### **HDMI** control ready

page 47 "HDMI Control Function"

Newly developed "S. V. H. Mechanism" with low center of gravity, vibration damping, quietness and high accuracy

Employs 6-block construction to eliminate mutual electrical and magnetic interference

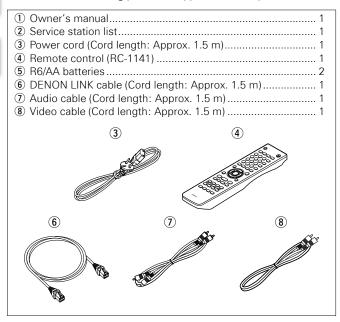
# **Getting Started**

Thank you for purchasing this DENON 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.

## Accessories

Check that the following parts are supplied with the product.



# **Cautions on Handling**

#### · Before turning the power switch on

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

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

#### Image persistence (image burn-in)

Do not leave the still images of the disc menu, DBP-4010UD 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 DBP-4010UD 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 DBP-4010UD will not operate correctly and damage may result. If condensation is formed on the unit, leave the DBP-4010UD unit for1 to 2 hours with the power OFF before use.

#### Cautions on using mobile phones

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

#### Moving the unit

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

#### About Care

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

#### Sufficiently ventilate the place of installation

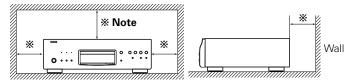
If the unit is left in a room full of the smoke from cigarettes, etc., for long periods of time, the surface of the optical pickup could get dirty, in which case it will not be able to read the signals properly.

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

#### **Cautions on Installation**

#### Note:

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



Do not place the DBP-4010UD on an amp or other piece of equipment that generates heat.

# **About Media**

#### Playable Media

#### **Discs**

Playab	le 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	SUPERALIDIO CD	_	-	SA-CD
CD CD-R	DIGITAL AUDIO			CD
CD-RW	DIGITAL AUDIO RECORDADO COMPACT COMPACT DIGITAL AUDIO REWITLADIO	_	_	CD

- \*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.

See overleaf

#### 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)	SD	Data recorded for BD BONUS
miniSD Card *2 (8 MB ~ 2 GB)		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 DBP-4010UD (@page 31).

#### Files

Playable files (Extension)	Playable 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 <sup>®</sup> (.avi/.divx)	0	0	Compatible versions:     Up to DivX® 6     Maximum size: 2 GB	DivX

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



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

## About DivX® Video-on-Demand (VOD)

• When you purchase or rent a DivX® file through the official site of DivX® Video-On-Demand (VOD) services, a DBP-4010UD registration code is required. For details, see "DivX® Registration" (**©** page 29).

• A DivX® VOD file recorded with a different code from the DBP-4010UD 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 (NIB) to confirm the selection.





#### NOTE

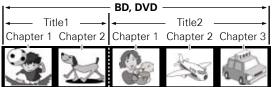
- ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, Inc. This is an official Divx Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.
- ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be 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)



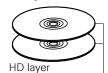
#### □ Super Audio CD [Type of Super Audio CD]

Single layer disc



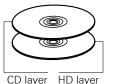
Single layer Super Audio CD with only an HD layer \*.

Dual layer disc



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

Hvbrid disc

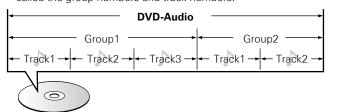


Two-layer Super Audio CD with an HD layer \* and a CD layer. The signals on the CD layer can be played on a regular CD player.

\* : 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.

#### □ 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.



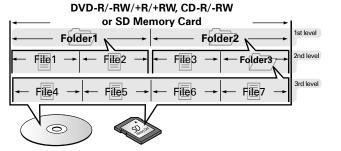
#### 

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 DBP-4010UD 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.

#### **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 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 DBP-4010UD'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.



X

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.

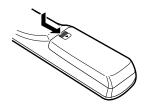
#### About Copyright

- 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 R6/AA batteries in unit's rear cover. the battery compartment in the indicated direction.





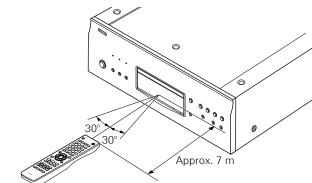
(3) Put the rear cover back on.

#### NOTE

- Use R6/AA 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 " $\oplus$ " and " $\ominus$ " marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
  - Do not use a new battery together with an old one.
  - Do not use two different types of batteries.
  - Do not attempt to charge dry batteries.
  - Do not short-circuit, disassemble, heat or dispose of batteries in
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- Remove the batteries from the remote control unit if it will not be in use for long periods.
- Used batteries should be disposed of in accordance with the local regulations regarding battery disposal.

## **Operating Range of the Remote Control** Unit

Point the remote control unit at the remote sensor when operating



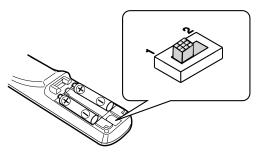
#### NOTE

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 liaht.

# **Remote Control Settings (Remote Control Side)**

#### Switches when the DBP-4010UD's remote control operates another DENON 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" (Propage 31).



#### [Remote control code setting]

- : Set the remote control code to "1".
- : Set the remote control code to "2".



• 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 "DENON 1", and the setting on the remote control is "2", "PLAYER 1" is shown on the display.

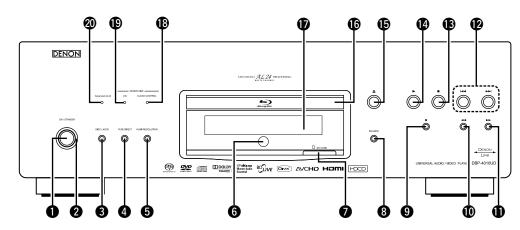
#### NOTE

- 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 DBP-4010UD with the remote control.
- Even if you change the remote control code, set GUI menu "Other Setup" - "Remote Control setting" - "Receive Legacy Remocon" (會 page 31) to "Off" when operating the DBP-4010UD with a remote control other than DENON's.

# **Part Names and Functions**

#### **Front Panel**

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



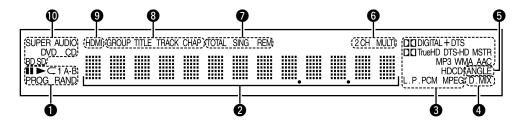
Power operation button	
(ON/STANDBY)······	(20)
2 Power indicator ·····	(20)
3 DISC LAYER button	(37)
4 PURE DIRECT button	(38)
HDMI RESOLUTION button ·····	(13)
6 Remote control sensor······	(7)
SD CARD slot ······	(6)
SOURCE button	(34)
9 Pause/Still button (Ⅱ) ···········	(41, 43)
<b>⑩</b> Fast reverse/slow button (◀◀)	(43)
<b>ٱ</b> Fast forward/slow button (►►	•)····· (43)

W	Revers-skip/Forward-skip buttons
	( <b>I</b> ◄◄ <b>, ▶►I</b> ) ····· (41)
B	<b>Stop button (■)</b> ·····(41)
Ø	<b>Play button (▶)</b> (37)
Ð	Disc tray open/close button (♠) ······ (34)
ø	<b>Disc tray</b> (6)
D	<b>Display</b> (8)
<b>B</b>	<b>CLOCK CONTROL indicator</b> (17, 28) Lights when playing BD with DENON LINK 4th (jitter free) connections.
ø	DENON LINK indicator · · · · · · (48)
_	ADVANCED AL24 indicator ······ (48)



When power is in standby mode, press **4** and **5** to turn the power on.

## **Display**



#### 1 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

#### 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

#### **7** 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

#### 3 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

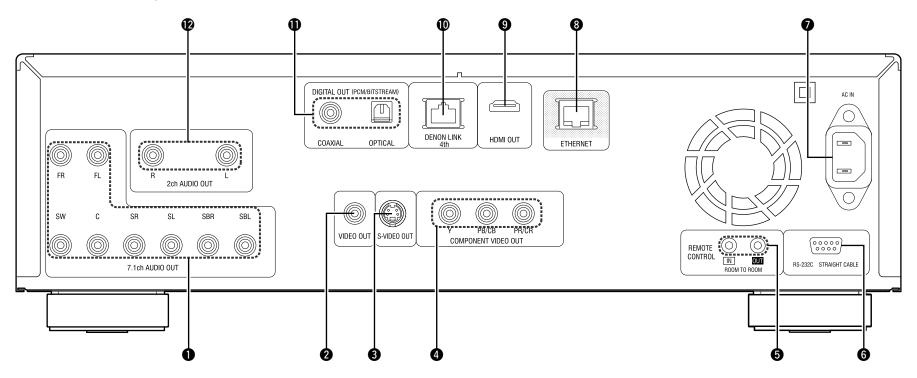
**SUPER AUDIO CD**: Super Audio CD

CD : CD

**SD**: SD Memory Card Displays the inserted media.

#### **Rear Panel**

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



U	7.1ch AUDIO OUT connectors(16)
0	VIDEO OUT connector ······ (18)
8	S-VIDEO OUT connector (18)
4	<b>COMPONENT VIDEO OUT connectors</b> ····· (18)
6	ROOM TO ROOM IN/OUT jacks
	Extension jack for future use.
0	RS-232C connector
	Extension connector for future use.
0	AC inlet (AC IN)(20)

ETHERNET connector (19, 20)	
HDMI OUT connectors(13)	
DENON LINK 4th connector ······ (17)	
D DIGITAL OUT OPTICAL/COAXIAL	
connectors (15)	
_	

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

#### 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" (@page 23).
- In "Audio Setup", set "7.1ch Audio Out" to "2 Channel" (@page 25).

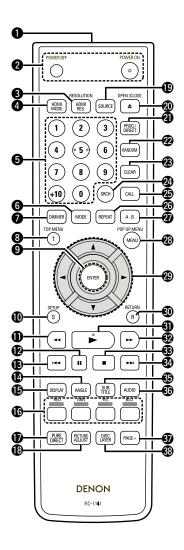
If "Audio Setup" in "HDMI Setup" and "7.1ch Audio Out" in "Audio Setup" are not set to "2Ch" or "2 Channel" respectively, 2-channel analog audio is output using this unit's own downmix.

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 POWER buttons (POWER OFF, POWER ON)(20	)
3 HDMI RESOLUTION button (HDMI RES.)(13	)
4 HDMI MODE button ·····(14	)
<b>⑤</b> Number buttons (0 ~ 9, +10)(35, 36	)
<b>6</b> MODE button(32	)
DIMMER button (47	)
<b>③ TOP MENU button (T)</b> (36	)
ENTER button(22	)
<b>1</b> SETUP button (S)(21	
<b>①</b> Fast-reversing button (◀◀)······(43	)
Pause/Still button (II) ·····(41, 43	
<b>®</b> Revers-skip button (I◄◄)·····(41	
ANGLE button (47	)
DISPLAY button (34	)
RED/GRN/YEL/BLU buttons	
PURE DIRECT button (38	)
PICTURE ADJUST button(33)	)
SOURCE button (34)	
<b>②</b> Disc tray OPEN/CLOSE button (♠) ·····(34	)
<b>② PROGRAM/DIRECT button (PROG/DIRECT)</b> (45	)
<b>② RANDOM button</b> (44	
CLEAR button (33)	
SEARCH button (SRCH) ·····(37	
② CALL button·····(45	)

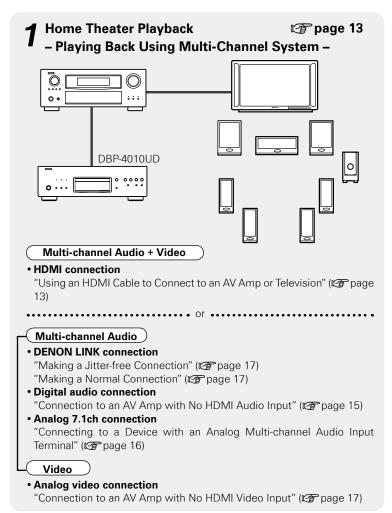
REPEAT button	(44)
② A-B button	(44)
MENU/POP UP MENU button ·····	(36)
<b>❷</b> Cursor buttons (△▽⊲⊳)·······	(22)
RETURN button (R)	(22)
<b>③</b> Play button (►)	(37)
<b>ூ</b> Fast-forwarding button (►►)···································	(43)
<b>③</b> Stop button (■)	(41)
<b>ଔ</b> Forward-skip button (►►I)······	(41)
SUBTITLE button	(46)
AUDIO button	(45, 46)
PAGE + button	(38)
DISC LAYER button	(37)

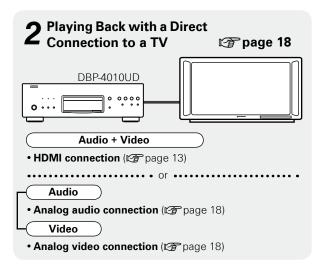


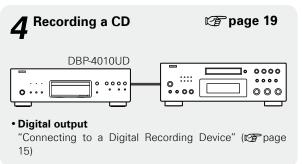
- When power is in standby, press ② and ③ to turn the power on.
- You can use **6** when operating the BD popup menu screen, etc.

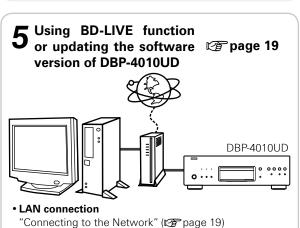
# Connections

Connect the DBP-4010UD as follows before using. Make connections according to the equipment you are connecting. Some DBP-4010UD settings may be necessary depending on the connection method. Check each connection item for more information.

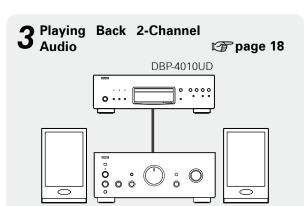




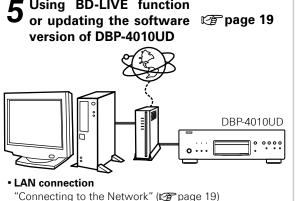




- Connecting the Power Cord
- Once Connections are Completed



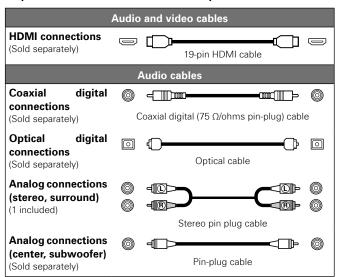
• 2ch stereo pin plug cable (unbalanced) connection "Connecting to a Device with Analog 2-channel Audio Input Terminal with Stereo Pin Plug Cable" (Propage 18)

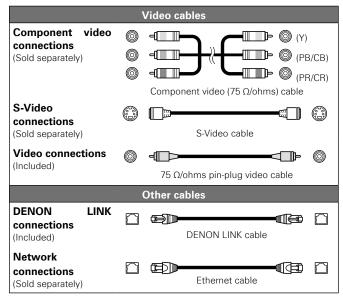


# **Preparation**

#### **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 (HDMI) and set it to "HDMI On".
- DBP-4010UD 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).

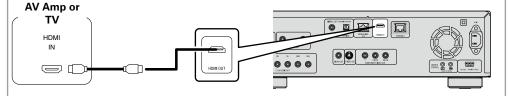
#### NOTE

- When you press [HDMI] 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 38)
- \* Do this after setting "Pure Direct Setup" "User Preset 1" or "User Preset 2" "Video Out" on GUI menu to "On" (r 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" (Repage 13), the DBP-4010UD 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.

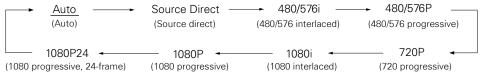
## **Required Settings for HDMI Connection**

#### **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" (Pp page 24)

#### ☐ About HDMI Video Resolution Setting

• Change the HDMI video resolution by pressing HDMI . Switch the output mode as follows. Default 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 DBP-4010UD'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 DBP-4010UD, it takes from a few seconds up to about 10 seconds for validation between the DBP-4010UD 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 DBP-4010UD 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" (Pract" (Pract" 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" (Prage 23) setting is "Off", "1080P24" is not displayed.

#### Setting HDMI Audio Output

- When you press 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 i		About output signal and speaker settings	
Device with the following built-in decoder • Dolby TrueHD • Dolby Digital Plus • Dolby Digital • DTS-HD • DTS	<u>Auto</u>	DBP-4010UD 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 DBP-4010UD.  Make the setting with the connected device.  When outputting the Dolby TrueHD or DTS-HD audio, press on set "BD Audio Mode" to "HD Audio Output" Page 32).	
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 DBP-4010UD.  **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 DBP-4010UD.  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 DBP-4010UD. Perform the speaker setting with the connected device.	
Device not compatible with HDMI audio signal input	Mute	Audio signal are not output from the DBP-4010UD'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 DBP-4010UD'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	Audio format	Setting "HDMI Setup" – "Audio Setup" (@page 23) on the GUI menu		
		Auto	Multi LPCM BM On/Off	2Ch
	Dolby Digital	Dolby Digital * 1		
	Dolby Digital Plus	Dolby Digital Plus * 1		
BD	Dolby TrueHD	Dolby TrueHD * 1	Multi I PCM	2 ch Downmix
БО	DTS	DTS * 1	IVIUILI LECIVI	LPCM
	DTS-HD	DTS-HD * 1		
	LPCM	Multi LPCM		
AVCHD	Dolby Digital	Dolby Digital		
AVCHD	LPCM	Multi LPCM	Multi I PCM	2 ch Downmix LPCM
	Dolby Digital	Dolby Digital	IVIUILI LPCIVI	
DVD-Video	DTS	DTS		
	LPCM, MPEG 2 ch LPCM			
DVD-Audio	LPCM, PPCM	Multi I PCM	2 ch Downm	
	Multi area	IVIUILI LPCIVI		LPCM
Super audio CD * 2	Stereo area	2 ob L DCM		
	CD layer	2 ch LPCM		
DivX®	Dolby Digital	Dolby Digital	Multi LPCM	2 ch Downmix LPCM
MP3, MP2		2 ch LPCM		
CD, MP3, WMA, AAC, LPCM		Z CII LF CIVI		
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" (Paragraphics page 32). 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

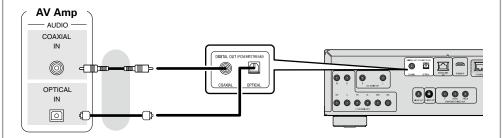
In order to play back digital video and audio such as BD-Video or DVD-Video via HDMI connection, both the player and TV or the AV Amp need to support the copyright protection system known as HDCP (High-bandwidth Digital Content Protection System). HDCP is copyright protection technology comprised of data encryption and authentication of the connected AV device. The DBP-4010UD 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 DBP-4010UD. 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.)
- When the DBP-4010UD is connected to this kind of device, audio signals are not output from the HDMI terminal.

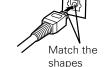
# Connection to an AV Amp with No HDMI Audio Input

When playing back Dolby Digital Plus/Dolby TrueHD/DTS-HD audio recorded on a BD disc, the DBP-4010UD outputs Dolby Digital or DTS bitstream from its digital audio output terminal.



#### NOTE

- Dolby TrueHD/Dolby Digital Plus/DTS-HD audio signals are not output with
- When outputting Dolby TrueHD/Dolby Digital Plus/DTS-HD audio signals, do so with an HDMI connection (@page 13, "Using an HDMI Cable to Connect to an AV Amp or Television").



- Super Audio CD's DSD signal cannot be output. Also, during CD 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.

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

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

The DBP-4010UD 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 DBP-4010UD.

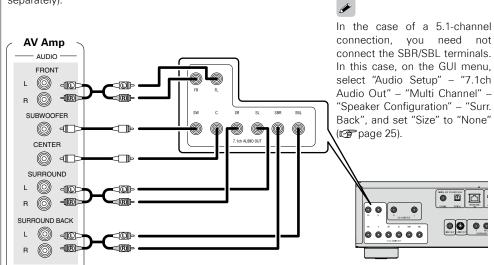
Media/Files	Audio format	Setting "Audio Setup" – "Digital Out" (12 page 27) on the GUI menu		
iviedia/Files	Audio format	Bitstream	PCM/ PCM Down Sampling	
	Dolby Digital			
	Dolby Digital Plus	Dolby Digital * 1		
BD	Dolby TrueHD			
עם	DTS	   DTS <b>*</b> 1		
	DTS-HD	וטוסייון		
	LPCM	2 ch Downmix LPCM * 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	2 ch Downmix I PCM		
DVD-Audio	LPCM, PPCM	2 CN DOWNMIX LPCIVI		
	Multi area	Audio is not sutput		
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 32).
- \*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

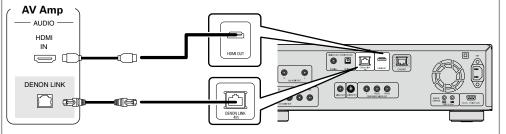
Outputs multi-channel audio decoded by the DBP-4010UD. If your audio system has an analog multi-channel audio input terminal, connect using audio cable (sold separately).



# Specifications

# **DENON LINK Connection** (1) Making a Jitter-free Connection

When you connect the DBP-4010UD to a DENON LINK 4th compatible AV Amp using DENON LINK cable and HDMI cable, during BD playback the DBP-4010UD's circuit operates with the AV Amp's master clock signal. (The clock control indicator of the DBP-4010UD lights.) This enables transmission of high-quality digital audio with minimal jitter.



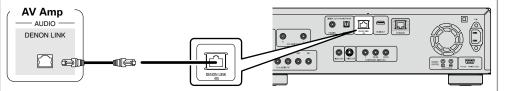
#### NOTE

- When using DENON LINK 4th functions, press the [HDM] and set to "HDMI On".
- The jitter-free function does not work except during BD playback. In this case, the video signal is output from the HDMI OUT terminal, and the audio signal from the DENON LINK terminal.

# **DENON LINK Connection 2 Making a Normal Connection**

- When connecting to a DENON LINK-compatible AV Amp, the multi-channel signals of DVD-Audio discs. Super Audio CDs. etc., can be transferred as such in digital format.
- DENON LINK connection requires that the version of AV Amp to be connected match the DBP-4010UD version. Check the version of the AV Amp, and then on the GUI Menu, set "DENON LINK Setup" - "DENON LINK Mode" (P page 28).

If the DBP-4010UD and AV Amp versions do not match, audio cannot be output correctly.



#### NOTE

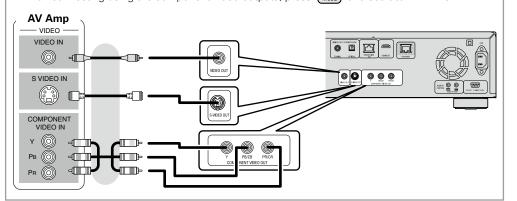
DENON LINK does not support BD audio transmission.



- DENON LINK supports digital transmission up to 24 bit/2 ch at 192/176.4 kHz, and up to 24 bit/6 ch at 96 kHz or less.
- When you have made a DENON LINK connection, the DBP-4010UD's speaker setting becomes invalid. (Make the speaker setting on the connected AV Amp)
- DENON LINK 2nd cannot transmit multi/stereo area audio of Super Audio CD.

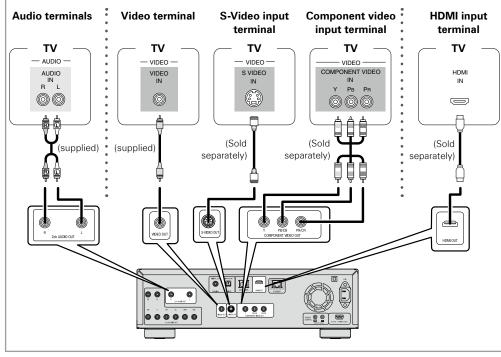
# Connection to an AV Amp with No HDMI Video Input

- Check the video terminals and make the connection to one of them.
- When connecting using the component video outputs, press (HDMI) and set it to "HDMI Off".



# 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.



#### NOTE

Do not connect the DBP-4010UD'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, DBP-4010UD's video output becomes NTSC signal format.

When playing PAL disc, DBP-4010UD's video output becomes PAL signal format.

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

• The DBP-4010UD'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" (Papage 24). Images will not be projected normally if the television resolution and DBP-4010UD's output resolution do not match. Copyright protected DVD is output in 480i/576i or 480p/576p.

#### NOTE

When you press (HOM) 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

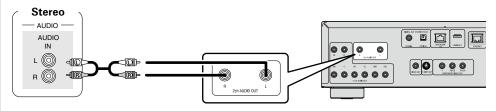
Outputting both digital video and digital audio signals.

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

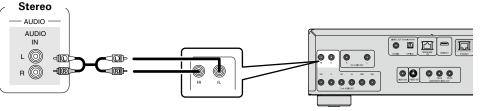




For software recorded in multi-channel, analog signals that have been down-mixed into 2 channels are output.

#### 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

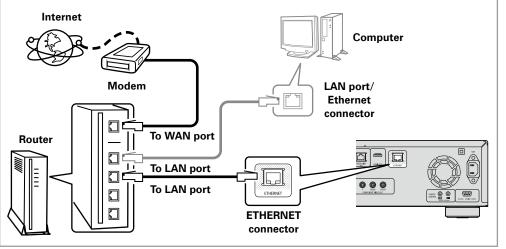
## **Connecting to a Digital Recording Device MD Recorder** - AUDIO COAXIAL OPTICAL 0000

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

# 5. Using BD-LIVE function or updating the software version of DBP-4010UD

# **Connecting to the Network**

- You can use a disc which offers BD-LIVE function by connecting the unit to the Internet (12) page
- You can update by downloading the latest firmware from the Internet. For more information, on the GUI menu, select "Other Setup" – "Firmware Update" (EF page 31).
- See "Network Setup" (@page 29) on the GUI menu for more information on network setting.



#### 5. Using BD-LIVE function or updating the software version of DBP-4010UD

#### **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 DBP-4010UD, 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 DBP-4010UD.
- 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

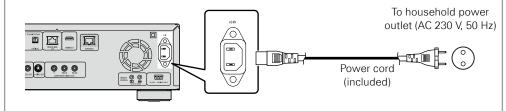
- It is necessary to subscribe to an ISP in order to connect to the Internet. If you already have a broadband connection, there is no need to subscribe anew.
- The router you can use varies with the ISP. For more information, contact your ISP or PC dealer.
- DENON assumes no responsibility whatsoever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

#### □ Others

- The DBP-4010UD 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 (12) page 29).
- If you connect the DBP-4010UD to a network without a DHCP function, conduct IP address and other settings according to "Network Setup" on the GUI menu (Repage 29).
- The DBP-4010UD does not support PPPoE. If you subscribe to a circuit that is set with PPPoE. a PPPoEcompatible router is required.
- When setting manually, check the setting contents with the network administrator.

# **Connecting the Power Cord**

Connect the included power cord to the DBP-4010UD, and plug it into an AC outlet.



#### NOTE

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

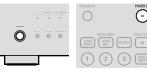
# **Once Connections are Completed**

#### **Turning the Power On**

Press the unit's or the remote control's . The power is turned on, and the power indicator lights green.

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

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



(DBP-4010UD)

(Remote control unit)



On the GUI menu, when "Other Setup" - "Auto Power Mode" - "On" (127) page 31), 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 on the remote control.

The power indicator lights red.

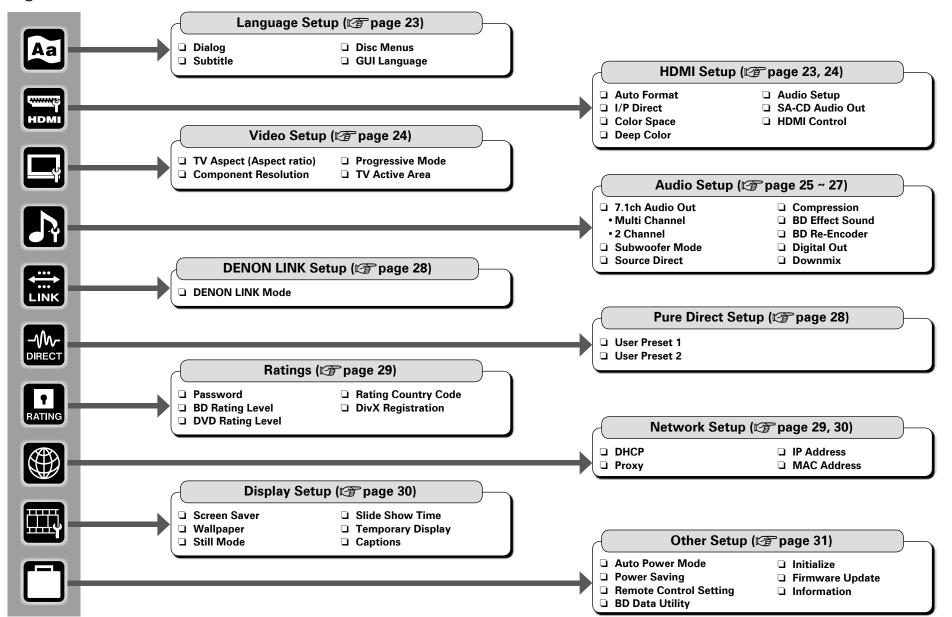
#### NOTE

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

# **GUI Menu Setup**

# Menu Map

Pressing (s) displays the GUI menu. From this menu, you can move to various setting screens.



# **GUI Menu Operation**

1 Press S. 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  $\binom{1}{6}$ .

 $\mathbf{3}$  Press to enter the setting.



## ☐ Exiting the GUI Menu

Press (s) while the GUI menu is displayed.

• The GUI menu display disappears.

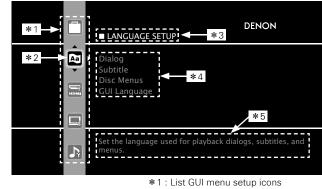
#### NOTE

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

# **Examples of GUI Menu Screen Displays**

Typical examples are described below.

#### [Example 1] Menu selection screen (Top menu)



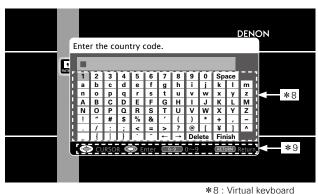
\*2 : Currently selected setup icon \*3: Currently selected setup item \*4: List of currently selected setup items \*5: Guide text for the currently selected

Press 🕶 to select " 🕟 setup item and then press 🔎. (Or press (ENTER).)



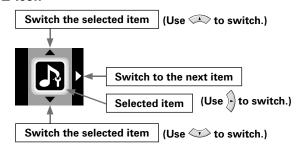
- \*6: Selected setup icon
- \*7: Options of the selected setup item

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

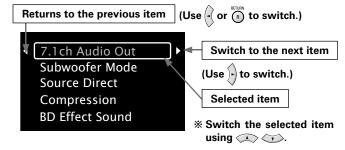


\*9: Operation button guide

□ Icon



☐ List





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

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



# Language Setup

Default settings are underlined.

Set the language used for playback dialogs, subtitles, and menus.

Setting items	Setting contents
<b>Dialog</b> 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.
<b>Disc Menus</b> 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.
<b>GUI Language</b> 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 



# **HDMI Setup**

Default settings are underlined.

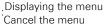
Set the HDMI output signal or HDMI control function

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.
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 HDM device supports Deep Color.  Off: Do not output Deep Color.
Audio Setup Set the audio signal system to be output from HDMI.	[Auto]: Automatically selects and outputs signals that can be input to the connected HDMI device. The bitstream signal takes priority.  [Multi LPCM BM On]: Decoded Linear PCM multi-channel signal is output by the DBP-4010UD. 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













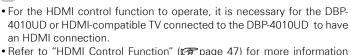


• Distance : Set the distance between the listening position and each

is output from each speaker.

speaker.

#### **HDMI Setup** Setting items Setting contents **Audio Setup** [Multi LPCM BM Off]: Decoded Linear PCM multi-channel signal is output by the DBP-4010UD. 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** On: Super Audio CD audio is output. Set to output stereo/multi Off: Super Audio CD audio is not output. area audio of Super Audio CD to the HDMI terminal. The Super Audio CD audio signal is a 44.1 kHz/16-bit Linear PCM output. **HDMI Control** [Control] Can operate the unit in • Off: Disable the HDMI control function. conjunction with an HDMI • On: Link with the device connected to HDMI. control support device. [Power Off Control]



• On: Turns the DBP-4010UD's power to standby through linkage to the • Off: Does not turn the DBP-4010UD's power to standby through linkage

- Refer to "HDMI Control Function" (Page 47) for more information about the HDMI control function.
- The HDMI control function from the connected device becomes valid when, on the GUI menu, "DENON LINK Setup" - "DENON LINK Mode" is set to "4th" (rappage 28).
- After the "HDMI Control" setting has been changed, always turn off the power to the connected equipment and then turn it back on.

#### NOTE

If you set "DENON LINK Setup" - "DENON LINK Mode" on the GUI menu to "4th", you will no longer be able to change the "HDMI Control" - "Control" setting. To change the setting, switch "DENON LINK Mode" to a setting other than "4th" first and then change the setting.



# 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.	
	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.



to the TV.













# 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 DBP-4010UD.

#### 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" (Pp 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.

Cancel the menu

- 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.

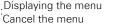
Setting items	Setting contents		
7.1ch Audio Out	<ul> <li>[Surr. Back]: Set the presence, size and number of surround back speakers.</li> <li>Size: Set the surround back speaker size.</li> <li>Large: Use of a large speaker that can adequately play back low frequencies.</li> <li>Small: Use of a small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

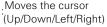
See overleaf















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

:Return to previous menu

Audio Setup	
Setting items	Setting contents
7.1ch Audio Out	<ul> <li>NOTE</li> <li>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.".</li> <li>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".</li> <li>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 DBP-4010UD 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.</li> </ul>
	☐ 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 (a).
	<ul> <li>[SW +10dB]: Increase the subwoofer output level by 10 dB. *</li> <li>Off: Do not change the subwoofer output level.</li> <li>On: Increase the subwoofer output level by +10 dB.</li> <li>*: "SW +10dB" cannot be set for "HDMI Setup" – "Audio Setup" – "Multi LPCM BM On" – "Channel Level" on the GUI menu.</li> </ul>
	<ul><li>(Default): Reset all channel level settings to factory default.</li><li>• No: Do not Reset.</li><li>• Yes: Reset.</li></ul>

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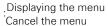
Audio Setup

Setting items	Setting contents
Source Direct Disable the speaker and subwoofer settings and output the disc audio as is.  NOTE  Set to within the playback frequency band of the amplifier you are to use: "On" at "50 kHz" or "100 kHz". Setting outside the frequency band can result in damage to your amplifier and even fire.	Off: Enable the speaker and subwoofer settings. On: 50kHz: Output the disc contents as is. When playing Super Audio CD, output up to 50 kHz audio signals. On: 100kHz: Output the disc contents as is. When playing Super Audio CD, output up to 100 kHz audio signals.  ✓ • Setting "On: 50 kHz" or "On: 100 kHz" enables full-range playback on all channels recommended for DTS. (Note that this results in a 5 dB increase in subwoofer volume, and a 15 dB increase with Super Audio CD). This also allows you to play back the 6-channel source of DVD-Audio recorded on all channels with the full frequency range. In this case, make an analog connection according to disc operating manual. • When set to "On: 50 kHz" or "On: 100 kHz", all speaker sizes are set to "Large" and "Yes" is set for the subwoofer. • Even when set to "On: 50 kHz" or "On: 100 kHz", "Channel Level" and "Distance" settings are available.
, , , , ,	Off: Dynamic Range compression is not applied.  Low: Set minimum dynamic range compression.
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.

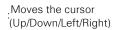
Setting items	Setting contents		
BD Re-Encoder Sets the format during output of the BD's Mix Audio signal from the digital output terminal.	Auto: Outputs primary audio (main audio) in the same type of audio format. Dolby Digital/Dolby Digital Plus/Dolby TrueHD are output as Dolby Digital, DTS/DTS-HD are output as DTS and Linear PCM is output as Linear PCM.  Dolby Digital: Outputs to the digital audio output terminal (optical/coaxial) with Dolby Digital.  DTS: Outputs to the digital audio output terminal (optical/coaxial) with DTS.  Valid when "BD Audio Mode" is set to "Mix Audio Output" (Propage 32).		
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" (Propage 17).	<b>Bitstream</b> : Outputs a bitstream signal. Converts Dolby TrueHD, Dolby		
Downmix Set the method used to convert a multi-channel audio signal to a 2-channel signal.	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" (FF page 32).		















# **DENON LINK Setup**

Default settings are underlined.

Set the audio signal to be output from the DENON LINK terminal.

Setting items	Setting contents
DENON LINK Mode	[Off]: Do not use DENON LINK.
Set the audio output of	(2nd): Output digital audio using DENON LINK 2nd Edition.
DENON LINK.	[3rd]: Output digital audio using DENON LINK 3rd Edition.
	(4th): Output digital audio using DENON LINK 4th Edition.
	Compatible with jitter-free connection. For more information, refer to
	"DENON LINK Connection ① Making a Jitter-free Connection" (@ page
	17).
	• HDMI: Improve HDMI digital signal jitter.
	• When set to "4th", the HDMI control function becomes available from the connected device.
	• When "4th" is set and jitter-free connection is set up, audio affected by the jitter-free function is output from the HDMI terminal during BD playback. When playing back media other than that, video signal is output from the HDMI terminal and audio signal is output from the
	<ul> <li>DENON LINK terminal, respectively.</li> <li>To play DENON LINK 4th signals, connect to a DENON LINK 4th-compatible AV Amp using an HDMI and a DENON LINK cable.</li> <li>About the 4th setting of the AV Amp, see the owner's manual of the</li> </ul>

## ☐ Signals Compatible with DENON LINK Setting and Transmission

AV Amp.

The DENON LINK setting for the DENON LINK version of the connected AV Amp is as follows:

				Medi	a		
DENON LINK version of AV Amp	The DENON LINK setting of the DBP- 4010UD	BD (During jitter-free connection)	DVD- Video	DVD- Audio	Super audio CD	CD	SD
2nd Edition ("S.E." displayed near terminal)	"2nd"	×	0	0	×	0	0
3rd Edition ("3rd" displayed near terminal)	"3rd"	×	0	0	0	0	0
4th Edition ("4th" displayed near terminal)	"4th"	0	0	0	0	0	0

#### NOTE

With DENON LINK connections, no audio signals other than those of BD are output from the HDMI

(When "DENON LINK Mode" is set to "2nd" and "HDMI Setup" - "SA-CD Audio Out" (@page 24) is set to "On", the audio signals of Super Audio CD are output from the HDMI terminal.)



# **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 mode	• On: Enable digital audio output.		
for "User Preset 1" or "User	Off: Disable digital audio output.		
Preset 2" selected by	[Video Out]: Set option of video output.		
Setting each of these items	• On: Enable video output.		
to "Off" enables output of	• Off: Disable video output. This setting also disables audio output from		
high quality analog signals	the HDMI terminal.		
free of interference from the	[Display]: Set option for front panel display.		
associated circuits.	• On: Turn on display.		
	• Off: Turn off display.		
	For more information, see "Playing Back High-quality Audio (Pure Direct Function)" (Far page 38).		



Remote control operation

buttons







.Moves the cursor

(Up/Down/Left/Right)







#### 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 (0) ~ (9) to enter a password and then press (NUTE) to finalize it.
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.
<b>DVD Rating Level</b> 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.
Rating Country Code Sets the standard country parental control. Apply the parental level of the set country.	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 50) and, with the virtual keyboard, use
<b>DivX Registration</b> Display the DivX <sup>®</sup> registration code.	<b>Show Code</b> : Display the DivX <sup>®</sup> 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 36).

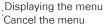
To obtain update support for your DBP-4010UD, you can download the latest firmware from our website.

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

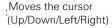
Setting items	Setting contents		
DHCP Set how to perform network configuration, automatically or manually.	[On]: Automatically configure the network by the DHCP function. [Off]: When connecting to a network, which does not have the DHCP function, manually configure the following network settings. For the details of the settings, confirm with the provider or network administrator. Use 0 ~ 9 to enter a value and then press enter 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.	you do not ms such as in the DHCP broadband br		
<b>Proxy</b> Set to connect to the Internet via a proxy server.	address to specify the proxy server. Use (1) ~ (9) to enter the address and then press (arran) to finalize it.  • Port: Use (1) ~ (9) to enter a port number and then press (arran) to		
	finalize it.  [On (Name)] Set to connect to the Internet via a proxy server. Specify the proxy server using the domain name. Input the domain name with the virtual keyboard, using () and () and () and () are the proxy server. Specify the proxy server using the domain name with the virtual keyboard, using () and () are the proxy server. Specify the proxy server using the domain name. Input the domain name with the virtual keyboard, using () and () are the proxy server using the domain name and the proxy server. Specify the proxy server using the domain name. Input the domain name with the virtual keyboard, using () and () are the proxy server using the domain name are the proxy server. Specify the proxy server using the domain name with the virtual keyboard, using () and () are the proxy server. Specify the proxy server using the proxy server using the domain name with the virtual keyboard, using () and () are the proxy server. Specify the proxy server using		













Network Setup	
Setting items	Setting contents
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**

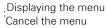
Default settings are underlined.

#### Set display-related items.

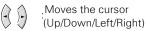
Setting items	Setting contents
Screen Saver Set the screensaver.	Off: Do not use the screensaver.  On: The screensaver function activates when stop or pause status continues for about three minutes. The screensaver function also activates during playback of a CD, Super Audio CD or audio file when no operations are performed for about three minutes.
Wallpaper Set to display the background while playback is stopping.	Picture: Displays the DENON 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 (F) page 47) or Pure Direct Function (F) page 38), 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.

Setting items	Setting contents
Auto Power Mode This setting automatically sets the power to standby.	Off: Do not use auto power mode.
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 DBP-4010UD's remote control ID code when other DENON BD Players are in the vicinity.  • DENON 1: Set the switch in the remote control battery compartment to "1" as well ("Remote Control Settings (Remote Control Side)"  page 7).  • DENON 2: Set the switch in the remote control battery compartment to "2" as well ("Remote Control Settings (Remote Control Side)"  page 7).  [Receive Legacy Remocon] Set whether or not to accept remote control signals of a DENON DVD player or other device.  • On: Accept • Off: Do not accept
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 DBP-4010UD.  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".

Catting with a man	0.00
Setting items	Setting contents
Initialize	Cancel: Do not initialize.
All settings including audio mode and picture quality are default settings.	OK: Execute initialization.
Firmware Update Update the firmware of the unit via the Internet.	Check for Update: Check if the latest firmware exists. You can also check approximately how long it will take to complete an update.  Start: Starts firmware update.  When updating starts, the power indicator lights red and the GUI screen is shut down.  During update, a rough remaining time is indicated on the display.  When updating is complete the power indicator lights green and normal status is resumed.
	[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.

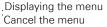
#### Cautions on "Firmware Update"

- In order to use these functions, you must have the correct system requirements and settings for a broadband Internet connection (rappage 19, 29).
- Do not turn off the power until updating is completed.
- Information regarding the "Firmware Update" function will be announced on the DENON 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 DBP-4010UD cannot be performed until updating is completed. Also, setting items of the GUI menu of DBP-4010UD 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".









.Moves the cursor

(Up/Down/Left/Right)





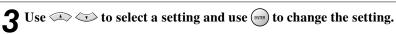
# **Various Settings**

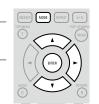
You can set the audio mode and change playback files. You can set various modes during playback. The setting menu is displayed at the top of the screen.

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

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

Select the setting item using 🖎 🔾, and then press 📖 or .





#### **Setting the Audio Mode** Default settings are underlined.

Setting items	Setting contents
BD Audio Mode Switch BD audio playback mode.	HD Audio Output: Can view by outputting high quality signals such as Dolby TrueHD, Dolby Digital Plus, or DTS-HD as its high sound quality bitstream. Cannot listen to interactive or secondary audio.  Mix Audio Output: Outputs a mix of primary audio/interactive audio/secondary audio.
	NOTE  When "BD Audio Mode" is set to "Mix Audio Output", DTS-HD 192kHz audio is decoded to 96kHz

#### **Changing the Playback File Display** Default settings are

Setting items	Setting contents
File filter	<b>All</b> : Plays back MP3/WMA/AAC/LPCM/JPEG/DivX <sup>®</sup> 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	<b>Video</b> : Plays back DivX <sup>®</sup> files.
disc.	Audio & Picture: Plays back MP3/WMA/AAC/LPCM/JPEG files.
	This operation is effective only when playback is stopped.

Making Other	Settings belaut 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 differs depending on the disc ("Playing Bonus View" ☞ page 36)
Audio/Video Sync Correct displaced video- audio playback timing.	<b>HDML / Component</b> : Audio output is synchronized to the video output from the HDMI terminal or component terminals. <b>S-VIdeo /Video</b> : 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.	<b>Q ~ 200msec :</b> Use this to adjust the audio output delay time manually.
•	<b>Off</b> : Displays the source video signal without modification. This should normally be set to "Off". <b>On</b> : 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.

This has no effect with the video and S-Video outputs.

Making Other Settings Default settings are underlined

NOTE

# **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.

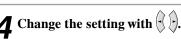
Press PICTURE The currently set status is displayed.

Select the memory number you want ("Memory 1" ∼ **4** "Memory 5") with  $\Leftrightarrow$  , and then press (BITB).



Select the item you want to change with 🖎 🝑.



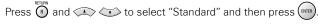


\* Refer to the table on the right regarding contents of items which can be set.

■ When Finishing Picture Adjustment

Press during picture adjustment.

☐ When Outputting Standard Picture Quality without **Using Picture Adjustment** 





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

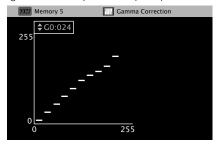
Setting items	Setting contents	Default
<b>DNR</b> Reduce noise in the entire picture.	0 ~ +3	0
<b>Contrast</b> Adjust picture contrast.	-6 ~ +6	0
<b>Brightness</b> Adjust picture brightness.	0 ~ +12	0
Enhancer *3 Strengthens the contours of the picture.	0 ~ +11	0
Gamma Correction *1 Adjust video brightness 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.	<b>-6</b> ~ +6	0
Hue (color tone) *4 Adjust the green and red color balance.	<b>-6</b> ~ +6	0
<b>White Level</b> Adjust the white level.	<b>-</b> 5 ~ +5	0
Black Level *3 Adjust the black level.	<b>-5</b> ~ +5	0
<b>Chroma Level</b> Adjust the color density.	<b>-6</b> ~ +6	0
Setup Level * 2 Adjust the black areas of the image.	0 IRE 7.5 IRE	0 IRE
H.Position *3 Adjust the left/right position.	<b>-7</b> ~ +7	0
V.Position *3 Adjust the top/bottom position.	-7 ~ + <b>7</b>	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

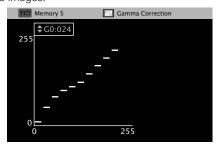
### **About Gamma Correction**

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

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 DBP-4010UD.



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



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

## ☐ Resuming Initial Values after Gamma Correction

Press (CLEAR) while a graph is displayed.



# **Playback**

### Disc playback

- ☐ Playing BD and DVD-Video (© page 36)
- ☐ Playing Back Super Audio CD (@ page 37)
- ☐ CD Playback (© page 37)
- ☐ DVD-Audio Playback (@ page 37, 38)
- □ Playing Back High-Quality Audio (© page 38)

### File playback

☐ File Playback (@ page 38 ~ 40)

# Operations Enabled During Playback (@page 41)

#### NOTE

- The "\ointo " (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 DBP-4010UD input.

# 2 Turn the DBP-4010UD power on.

- \*When playing back a bonus view, before turning on the power of the DBP-4010UD, insert a SD Memory Card that has at least 1GB and has been initialized by DBP-4010UD.
- **3** Press SOURCE to set the playback media mode to "DISC MODE".

# 4

## 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 DBP-4010UD input.
- 2 Insert a SD Memory Card.
  Insert the SD Memory Card in the direction indicated by the arrow with the label side up (☞ page 6, 8).
- 3 Turn the DBP-4010UD power on.
- 4 Press SOURCE to set the playback media 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 time DISPLAY is pressed.

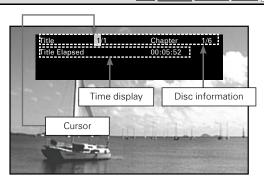
To erase display, press DISPLAY until it goes away.



\* 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.)

## ☐ 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".

1 Use to move the cursor to the item that you wish to search.

**2** Use ① ~ ⑨ and ﴿¹0 to enter a value.

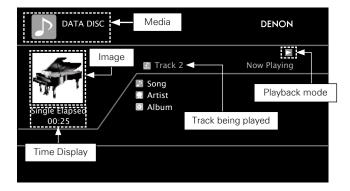
**3** Press (NUTE).
Search is executed and playback begins.

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

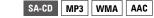








☐ Disc Information Display



**About Playback Information** 

• D Title

Artist name

• Album title



1 2 3

4 5 6

7 8 9 024

About the time display and HDMI output signal display, see "Information Bar Display" (@page 34).

# Playing BD and DVD-Video

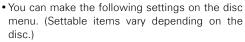
BD DVD-V

Playback preparation ("Before Playing a Disc" page 34).

**2** Make the various settings for playback on the disc menu.







- · Subtitle language
- · Audio language
- · Audio format etc.
- During DVD-Video playback, press or or to display the menu.

If the menu continues, press to get to the next part.

# **3** Select the playback title or chapter from the top menu for playback.





[Example] Disc menu



**[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 playback.

Off  $\longrightarrow$  1/X  $\longrightarrow$  2/X  $\longrightarrow$  X/X

#### [Selectable item]

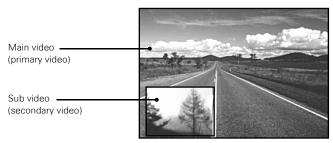
**Off**: Does not display Secondary Video.

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 DBP-4010UD (12) page 31).
- To use BD-LIVE functions, connect the DBP-4010UD to the Internet and make the settings described below, as necessary:

Connections···········"Connecting to the Network" (127 page 19)
Settings··············"Network Setup" (127 page 29)

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

# ☐ Enjoying BD-LIVE features

(Example) Popup menu

- 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 DBP-4010UD 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 DBP-4010UD.
- Do not remove the SD card from the DBP-4010UD while playing a BD-LIVE compatible disc.

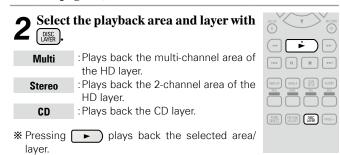
## ☐ Playing BD-Video Compatible with Bonus View

- 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 DBP-4010UD 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

Playback preparation ("Before Playing a Disc" **P** page 34).



☐ When You View the Text or Playback Time Display

See "Media Player Display" (P page 35).



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

# **CD Playback**



Playback preparation ("Before Playing a Disc" **愛 page 34).** 



☐ When You Look at the Playback Time Display See "Media Player Display" ( page 35).



DVD-A

4 5 6

7 8 9

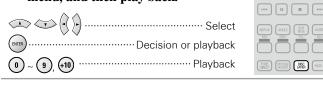
**(+10) (0) (SA) (CALL** 

Playback preparation ("Before Playing 1 2 3 == a Disc" page 34).

Select the part for playback with (DISC LAYER).

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 34).

### Change Group/Track

**◄** During stop or during playback, select search mode with (SRCH).

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

\* The search mode changes each time you press (snc)

Select the playback group and track (1) (2) (3) **from the top menu, and then play** back.



Plays back the group or track of the pressed number

\* See "Looking for Specific Sections Using the Search Modes" (R page 42) 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 (SRCH).

• Enter the bonus group number with **2** (1) ~ (9), (±10).



3 Using 0 ~ 9 enter a 4-digit password, and then press (ENTER). 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 vou enter wrong password

Press (CLEAR) 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)

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

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

Press during stop, and then select pure direct mode.



Off : This turns off the pure direct function. : This turns off the digital signal output, video signal output and display on the display screen. User Preset 1: Operates with the registered pure direct setting.



User Preset 2

- You cannot use I while the GUI menu is displayed.
- With "On" and the main unit display set to off, indicators other than power are turned off.

("Pure Direct Setup" page 28)

• The pure direct setting returns to "Off" when the DBP-4010UD is put in standby mode.

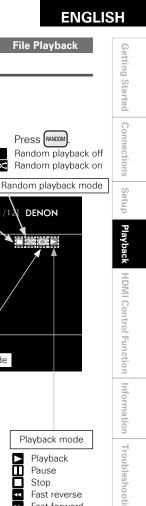
# File Playback

## □ About the File Display

The limits on the number of folders and files that can be displayed by the DBP-4010UD are as follows.

(The limited number includes the root folder.)

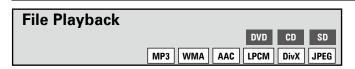
- Number of folder directory levels ------8 levels
- Number of folders 999
- Number of text display characters
- · File name, Folder name······ 32
- · Artist name, title, etc.····· 60
- \* Text more than one line is scroll displayed.
- \* If characters not supported on the menu screen are included in a file name, title, artist name or album title, those are not displayed correctly.



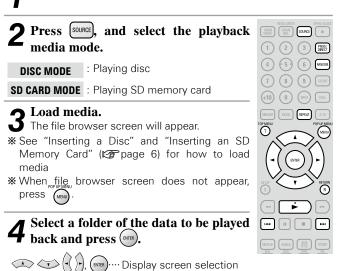








# Turn the DBP-4010UD power on.





**5** Press PROG! to select a playback mode.

**All Track Mode** : Plavs back all files in the media.

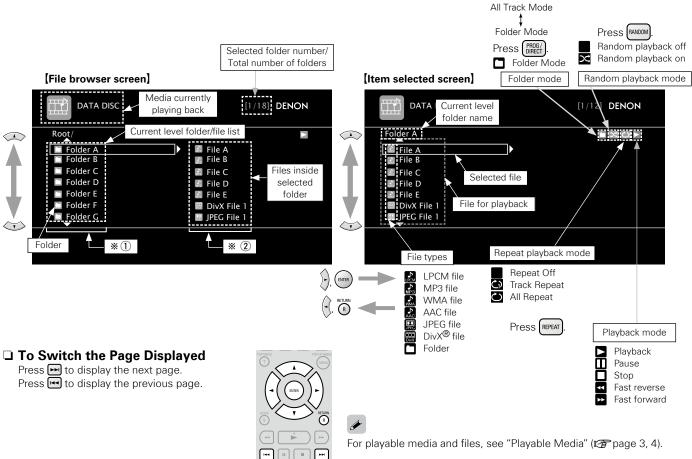
Folder Mode Plays back files in the selected folder. The folder icon is displayed in the playback mode indicator.

## 6 Selecting and playing back files.





Operation during playback differs depending on the file being played back. See "Operation During Playback" (@page 40).

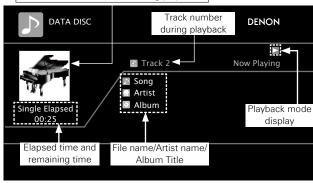


#### File Playback

# **About Screen Display During Playback**

## **Display during Playback of Audio Files**

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



## NOTE

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

# Display of DivX® Files and JPEG Files

Displays video being played.



Displays still image being played



# **Operation During Playback**

## Audio file and DivX® file operation

MP3 WMA AAC LPCM DivX

□ Playback in Any Order (Random Playback)

Press RANDOM during stop, and then press or

☐ Playing Back Repeatedly (Repeat Playback)

Press (REPEAT) to select the repeat playback mode.



# • S

- Set the image display time on the GUI menu with: "Display Setup" "Slide Show Time" (ﷺ page 30).
- With a large image file, the display time may be longer than the set time.

H-1 | H | F-1

 $\hfill \Box$  Changing the Still Image being Played Back

Press 🛶, ы

• Before playback, or display of next image.

□ Pausing the Display

Press 🔳.

• To cancel pause, press

 $\ \square$  Changing the Still Image Orientation





☐ Returning to Thumbnail Display Screen



# Playing Back JPEG File (Still Image)

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

Press while the file browser screen is displayed. The thumbnail screen will appear.

\* Pressing while the thumbnail screen is displayed returns you to the file browser screen.



2 Use to select still images.

3 Press (SITE).

Display selected image on full screen.



DIMMER MODE REPEAT A-B

# **Operations Enabled During Playback**

## **Operations Enabled During Playback**

- ☐ Pause Playback (@ page 41)
- ☐ Stop Playback (Resume Function) (@ page 41)
- □ Skipping to the Chapter/Track/File You Want to Playback (12 page 41)
- □ Looking for Specific Sections Using the Search Modes (© page 42)
- Memorizing Locations You Want to Replay (Marker Function) ( page 43)
- ☐ Fast Forward/Fast Reverse (@ page 43)
- ☐ Step-by-Step Playback (@ page 43)
- ☐ Slow Forward/Slow Reverse Playback (125 page 43)
- ☐ Playback in Any Order (Random Playback)
  ((② page 44)
- ☐ Playing Back Repeatedly (Repeat Playback)

  (☐ page 44)
- □ Repeat Playback between Specified Points (A-B Repeat) ((27) page 44)
- ☐ Playing back in your preferred order (Program Playback) (ﷺ page 45)
- ☐ Switching Audio (☐ page 45, 46)
- ☐ Changing the Subtitles and Subtitle Style ((2) page 46)
- ☐ Switching the Angle (@ page 47)
- □ Changing the Brightness of the Display (Dimmer Control) (( page 47)

# Pause Playback



# Press during playback.

The "II" indicator will light on the display.

\* Resume normal playback by pressing -.



If the video is blurred during pause, stop playback and press (3), then, on the GUI menu, change "Display Setup" – "Still Mode" – "Field" (12) page 30).



HDMJ HDMJ SOURCE (±

# **Stop Playback (Resume Function)**



## Press • during playback.

Playback stops.

#### □ About Resume Function



When playback is stopped, the stop position is memorized.

The "▶" indicator flashes on the display. When playing back data from the stop position, press
 ▶ 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 (SOURCE)
- 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<sup>®</sup> 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 e 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.



## **Operations Enabled During Playback**

# Looking for Specific Sections Using the Search Modes



**During playback, press** (see), 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.

### ☐ Chapter search



#### □ Title search



#### ☐ Track search



#### ☐ Group search



#### □ Time search



### ☐ Marker search



#### [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**

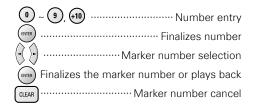
Plays back from your selected marker number.



- 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.





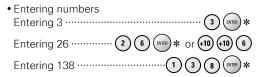
1 2 3

(4) (5) (6) [WOOM

7 8 9 DEAR

(+10) (0) (SIGH) (24)

144 || || || || || || || ||



- \*: 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 [44], [45] 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.

**1** During playback, press (SG), and then select "Marker".

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



2 Use () to select the number.



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

3 Press 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 (CLEAR).

☐ To erase all markers

Select "AC" and press (ENTER)



(+10) (0) (SRCH) [CALL

Hed II II PH

- 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 -



7 8 9 CLEAR



- 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**



Operations Enabled During Playback

# Press uduring pause.

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



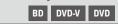
\* Resume normal playback by pressing



- Step-by-step reverse playback is not available with the DBP-4010UD.
- 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 30).



# 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 30).



# Playback in Any Order (Random Playback)



Press RANDOM during stop.

The "RAND" lights on the display and "Random (7) (8) (9) [8] Mode" is displayed on the screen.

Press **\rightarrow** to play back.



# ☐ Resuming Normal Playback

Press (RANDOM) during stop.



Random playback may not be enabled depending on the disc.

# **Playing Back Repeatedly** (Repeat Playback) BD DVD-A DVD-V DVD SA-CD CD SD MP3 WMA AAC LPCM DivX JPEG

Press (REPEAT) during playback.

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

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



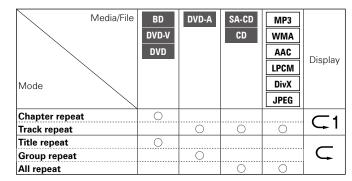
2 Press REPEAT to select the repeat mode.

\* To resume normal playback, press (REPEAT), 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.

\* To cancel starting point (A), press CLEAR

Press the A-B 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), 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.

Press PROG/ during stop.

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



**♠** Enter the track numbers you want L to program on the program setting (1 (2 (3)) screen.



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 CALL during stop.

☐ Erasing Programmed Tracks One by One

Press CLEAR during stop.

☐ Erasing All Programmed Contents



4 5 6

7 8 9 GEAR



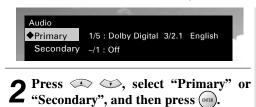
With discs and files that have multiple audio track recording, you can change the audio during playback.

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

# Switching a BD's Primary Audio/Secondary Audio

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

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" (Prage 32), "Secondary" audio is not output.

Select your desired audio language with 🖎 🥶.







- Depending on the disc, audio switching may be restricted to operation of the disc menu. In this case, switch the audio on the disc menu
- Be sure to set "BD Audio Mode" to "Mix Audio Output" (@page 32) 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.

#### **Operations Enabled During Playback**

### Audio Switching (Media Other than BD)

**1** Press and during playback.

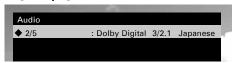
The audio number currently being played is displayed.

**[Example]** DVD



**2** Use to select audio

[Example] DVD-Video



**Press** Autob.

The setup screen disappears.



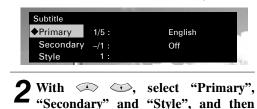
- With DVD-R/-RW with bilingual soundtrack recording, you can switch between "Main" (main audio) and "Sub" (secondary audio) or "Main/Sub" (main audio + secondary audio).
- In CD audio mode, you can switch "Stereo", "L-ch" (left channel) or "R-ch" (right channel).
- With a DivX<sup>®</sup> file, "MP3" or "Dolby Digital" audio formats and the number of recorded audio modes are displayed. "- - -" appears for audio other than these.
- With DTS-CD (5.1 music disc), you cannot switch audio modes.

# Changing the Subtitles and Subtitle Style

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

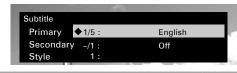
# Switching a BD's Primary Subtitle/Secondary Subtitle and Subtitle Style

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





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





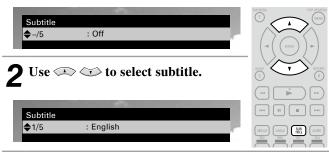


- If a disc does not include subtitles and subtitle style, "Not Available" is displayed.
- Depending on the disc, subtitle switching may be restricted to operation of the disc menu. In this case, switch the subtitles on the disc menu.

# Selecting DVD-Video and DivX® file Subtitle

**1** Press during playback.

The subtitle number currently being played is displayed.





OISPLAY ANGLE SUB MILE AUGO

With a  $\mathsf{DivX}^{\circledR}$  file, the currently playing subtitle number and number of recorded subtitles are displayed, the language option is not displayed.

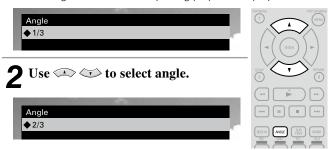
# Operations Enabled During Playback

# **Switching the Angle**

BD DVD-V

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

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



**3** Press ANGLE. The setup screen disappears.

# NOTE

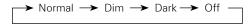
Angle changing may be restricted, depending on the disc.

# Changing the Brightness of the Display (Dimmer Control)

Press DIMMER.

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" (FF) page 30).

# **HDMI Control Function**

When you make an HDMI connection with a TV or AV Amp compatible with DBP-4010UD 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 DBP-4010UD, and functions change with DBP-4010UD input.
- ☐ Turning off the TV's power turns the DBP-4010UD's power to standby.
- □ Operating the DBP-4010UD 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 31), 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" (@page 24), the DBP-4010UD is not set to standby even if the connected device is in the standby mode.
- When "DENON LINK Setup" "DENON LINK Mode" on the GUI menu is set to "4th", the HDMI control function is enabled for the connected devices.

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 DBP-4010UD 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.
- **4** To ensure that the DBP-4010UD'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 DBP-4010UD 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?
- After setting, did you add another HDMI device connection or make any changes in the connections? In this case, perform setting again.

# **Other Information**

# **About DENON LINK**

DENON LINK is a unique digital, balanced transfer type interface developed by DENON. It offers high speed, high quality transfer of digital audio data with low signal loss. It can be used together with DENON AV Amp equipped with a special DENON LINK connector using a single cable to enable playback with high sound quality. It allows digital transfer of the 192 kHz/24 bit 2-channel digital signals of DVD-Audio discs, PCM multi-channel signals, etc. Full-spec digital transfer of the audio contents of Super Audio CD is possible by connecting a player equipped for DENON LINK 3rd Edition.

During processing of DENON LINK, the DENON LINK indicator of the display lights.

DENON LINK 4th uses the clock of the AV Amp connected by DENON LINK to achieve HDMI signal transfer with little jitter when playing RD

# About Advanced AL24 Processing

"Advanced AL24 Processing" installed in the analog output dramatically improves the information volume on the time axis with independent speed signal detection and processing technology for the PCM signal playback system. In addition to data expansion to 24 bit, it conducts natural interpolation processing with no loss of original data by digital upsampling. The "Advanced AL24" indicator lights on the front panel when Advanced AL24 Processing is in operation.

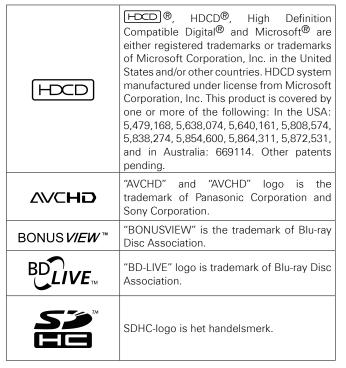
# About Copyright Protection Technology

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 authorised by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision. Reverse engineering or disassembly is prohibited.

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# 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
1	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
	Marathi	5964
	Moldavian	5961
	Mongolian	5960
N	Nauru	6047
	Nepali	6051
	Norwegian	6061
O	Occitan	6149
	Oriya	6164
	Oromo (Afan)	6159
Р	Panjabi	6247
	Pashto; Pushto	6265
	Persian	5247
	Polish	6258
	Portuguese	6266
Q	Quechua	6367
R	Rhaeto-Romance	6459
	Romanian	6461
	Russian	6467

	Language	Code
	<b>Language</b> Samoan	6559
S		6553
	Sangho 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
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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
U	Ukrainian	6757
•	Urdu	6764
	Uzbek	6772
ν	Vietnamese	6855
-	Volapuk	6861
w	Welsh	4971
	Wolof	6961
Х	Xhosa	7054
Ϋ	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	ΑZ
В	BAHAMAS	BS
	BAHRAIN	ВН
	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	Ю
	TERRITORY BRUNEI DARUSSALAM	BN
	BULGARIA	BG
	BURKINA FASO	BF
	BURUNDI	BI
С	CAMBODIA	KH
C	CAMEROON	CM
	CAPE VERDE	CV
	CAYMAN ISLANDS	KY
	CENTRAL AFRICAN	
	REPUBLIC	CF
	CHAD	TD
	CHRISTMAS ISLAND	CX
	COCOS (KEELING) ISLANDS	CC
	COMOROS	KM
	CONGO	CG
	CONGO, THE DEMOCRATIC	CD
	REPUBLIC OF THE	
	COOK ISLANDS	CK
	COSTA RICA	CR
	CÔTE D'IVOIRE	CI
	CROATIA	HR

	Country	Code
	CUBA	CU
	CYPRUS	CY
	CZECH REPUBLIC	CZ
D	DJIBOUTI	DJ
	DOMINICA	DM
	DOMINICAN REPUBLIC	DO
Ε	ECUADOR	EC
	EGYPT	EG
	EL SALVADOR	SV
	EQUATORIAL GUINEA	GQ
	ERITREA	ER
	ESTONIA	EE
	ETHIOPIA	ET
F	FALKLAND ISLANDS	FK
	(MALVINAS) 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
	GUATEMALA	GT
	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
ı	ICELAND	IS
	IRAN, ISLAMIC REPUBLIC	IR
	OF IRAQ	IQ
	ISLE OF MAN	IM
	ISRAEL	IL
J	JAMAICA	JM
_	JERSEY	JE

	Country	Code
	JORDAN	JO
Κ	KAZAKHSTAN	KZ
	KENYA	KE
	KIRIBATI	KI
	KOREA, DEMOCRATIC	KP
	PEOPLE'S REPUBLIC OF	
	KUWAIT	KW
	KYRGYZSTAN	KG
L	LAO PEOPLE'S	LA
	DEMOCRATIC REPUBLIC LATVIA	ΙV
	LEBANON	LB
	LEBANON	LB
	LIBERIA	LR
	=-==:::::	ΙΥ
	LIBYAN ARAB JAMAHIRIYA	11
	LIECHTENSTEIN	I T
	LITHUANIA MACAO	MO
М	MACEDONIA, THE FORMER	IVIO
	YUGOSLAV REPUBLIC OF	MK
	MADAGASCAR	MG
	MAI AWI	MW
	MALDIVES	MV
	MALI	ML
	MALTA	MT
	MARSHALL ISLANDS	MH
	MARTINIQUE	MQ
	MAURITANIA	MR
	MAURITIUS	MU
	MAYOTTE	YT
	MICRONESIA, FEDERATED	FM
	STATES OF	
	MOLDOVA	MD
	MONACO	MC
	MONGOLIA	MN
	MONTENEGRO	ME
	MONTSERRAT	MS
	MOROCCO	MA
	MOZAMBIQUE	MZ
	MYANMAR	MM
N	NAMIBIA	NA
	NAURU	NR
	NEPAL	NP
	NETHERLANDS ANTILLES	AN
	NEW CALEDONIA	NC
	NICARAGUA	NI
	NIGER	NE
	NIGERIA	NG
	NIUE	NU

	Country	Code
	NORFOLK ISLAND	NF
	NORTHERN MARIANA	MP
	ISLANDS	
0	OMAN	OM
Ρ	PALAU	PW
	PALESTINIAN TERRITORY, OCCUPIED	PS
	PANAMA	PA
	PAPUA NEW GUINEA	PG
	PARAGUAY	PY
	PERU	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	PM
	MIQUELON SAINT VINCENT AND THE	VC
	GRENADINES	WS
	SAMOA 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 MAYEN	SJ
	SWAZILAND	SZ
	SYRIAN ARAB REPUBLIC	SY

	Country	Code
Т	TAJIKISTAN	TJ
	TANZANIA, UNITED REPUBLIC OF	TZ
	TIMOR-LESTE	TL
	TOGO	TG
	TOKELAU	TK
	TONGA	TO
	TRINIDAD AND TOBAGO	TT
	TUNISIA	TN
	TURKEY	TR
	TURKMENISTAN	TM
	TURKS AND CAICOS ISI ANDS	TC
	TUVALU	TV
U	UGANDA	UG
	UKRAINE	UA
	UNITED ARAB EMIRATES	AE
	UNITED STATES MINOR OUTLYING ISLANDS	UM
	URUGUAY	UY
	UZBEKISTAN	UZ
٧	VANUATU	VU
	VATICAN CITY STATE	VA
	VENEZUELA	VE
	VIET NAM	VN
	VIRGIN ISLANDS, BRITISH	VG
	VIRGIN ISLANDS, U.S.	VI
W	***************************************	WF
	WESTERN SAHARA	EH
Υ	YEMEN	YE
Z	ZAMBIA	ZM
	ZIMBABWE	ZW

Setup

# **Explanation of Terms**

#### Numerics

#### 4:3 letterbox

When a wide (16:9) disc is played back by connecting a 4:3 TV and the DBP-4010UD, 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 DBP-4010UD, 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 DBP-4010UD 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 DBP-4010UD, 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.

#### LFF

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.

#### Ρ

#### 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. DBP-4010UD 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.

#### 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.	
	DBP-4010UD enters the standby status by safety function when	3, 9
	the fan stops. Check the back of the set if something is disturbing the fan rotation.	
Unable to play back	· · · · · · · · · · · · · · · · · · ·	4, 36
BD-LIVE / bonus view.	-1	
	Has the SD Memory Card been initialized by the DBP-4010UD?	31
	Was the SD Memory Card inserted while the power of the unit is	4, 36
	on. (Insert the SD Memory Card while the DBP-4010UD is in the standby status.)	
	• Remove the write protection of an SD Memory Card.	_
D' 1		_
Picture does not appear.	• Switch the TV's input setting to the external input connected to the player.	_
	• Is the Pure Direct function set to "On"? Set to "Off".	28, 38
	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.	4.0
	Check the connection of the video/S-Video/component video cable.	18
	• 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 DBP-4010UD lighting?	13 8
	• 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".	28, 38
	• 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", DBP-4010UD makes the setting automatically.	13
HD audio is not output.	Set "BD Audio Mode" to "HD Audio Output".	32
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 DBP-4010UD'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.	18
	• Is a disc that is not compatible with the player or a disc with a different region number loaded? (This player supports region code "B" for BD-Video discs, "2" or "ALL" for DVD-Video discs.)	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 hear.	<ul> <li>Check the devices whose audio is connected and the speaker connections.</li> <li>Is the power of devices whose audio is connected turned on?</li> </ul>	11 ~ 20 -
	Is the input selection set to the input to which the DBP-4010UD 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	There may be a problem with the data recorded on the disc.  Is there condensation inside the player or on the disc? (Let set for	3
start even when ► is	1 to 2 hours with the power off.)	
pressed, or starts but stops immediately.	<ul> <li>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.</li> </ul>	6
	• Is the disc loaded upside-down? Load the disc properly, with the side containing the signals to be played facing down.	6
0.1.22	• Is an unplayable disc loaded?	3, 4
Subtitles are not displayed.	<ul> <li>Subtitles cannot be displayed for BD-Video, DVD-Video or DivX<sup>®</sup> files that do not contain subtitles.</li> </ul>	46
	• 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.	31
cannot be read.	Is the playback media mode set to "SD CARD MODE"?     Select "SD CARD MODE" at SOURCE.	34
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 7 meters from the remote control sensor.	7
	• Remove the obstacle.	-
	• Replace the batteries with new ones.	7
	<ul> <li>Insert the batteries in the proper direction, checking the ⊕ and ⊖ marks.</li> </ul>	7
	Make the signal code of the remote control match to the signal code of the unit.	7

Symptom	Cause / Countermeasure	Page
The unit is operated by the remote control of other DENON products.	• The unit is operated by the remote control of other DENON products.	7, 31
	• To avoid the unit being operated with the remote control of other devices, set "Other Setup" – "Remote Control Setting" – "Receive Legacy Remocon" to "Off" on the GUI menu.	31
Buttons do not work	Operations may not be permitted by the disc.	-
or the unit stops responding.	<ul> <li>The safety protection device may be activated. Unplug the power cord once, and wait for 5-10 seconds and then plug it in again.</li> <li>Refer to the instructions of the disc.</li> </ul>	-
Playable disc is not read.	• The pickup lens may be dirty. Before requesting servicing, try cleaning the laser pickup with a commercially available lens cleaner. (Do not use a cleaner with brush because it may damage the lens.)	_
Angle does not 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.	47
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.	29
The password for rating level has been forgotten.	• On the GUI menu, perform the "Other Setup" – "Initialize" procedure.	31



- 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

Signal format :

NTSC, PAL

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

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

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

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

(3) Super Audio CDs:

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

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

SD Memory Card / SDHC Memory Card / miniSD Card /

microSD Card

**S-Video output :** Y output level : 1Vp-p (75  $\Omega$ /ohms)

C output level: 0.300 Vp-p

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

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

 Output terminal : Pin-jack, 1 set

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

Pb/Cb output level / Pr/Cr output level : 0.7 Vp-p (75 Ω/ohms)

Output terminal: Pin-jack, 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)

Analog audio output : Output level :  $2 \text{ Vrms} (10 \text{ k}\Omega/\text{kohms})$ 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) : 2Hz ~ 22kHz (48kHz sampling)

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

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

: 2Hz ~ 44kHz (96kHz sampling)

:  $2Hz \sim 88kHz$  (192kHz sampling)

(2) S/N ratio: 125dB

(3) Total harmonic distortion: 1kHz 0.0008%

(4) Dynamic range: 110dB

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

Coaxial digital output: Pin jack, 1 set

□ General

**Power supply:** AC 230 V, 50 Hz

Power consumption: 55 W

• When in Power Saving Standby: 0.3 W

• When in Normal Standby : 0.8 W

• When in Quick Start Mode :

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

Maximum external dimensions: 434 (W) x 137 (H) x 383 (D) mm

Weight: 10 kg

☐ Remote control unit (RC-1141)

Remote control type : Infrared pulse

Batteries: R6/AA Type (two batteries)

Maximum external dimensions: 58 (W) x 230 (H) x 37 (D) mm

Weight: 205 g (included batteries)

<sup>\*</sup> For purposes of improvement, specifications and design are subject to change without notice.

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Version 2, June 1991

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Version 2.1, February 1999

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executables.

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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 cipea.

djpeg, jpegtran, rdjpgcom, and

wrjpgcom.

\*.1 Unix-style man pages for programs (same info as usage.

doc).

Advanced usage instructions for wizard.doc

JPEG wizards only.

change.log Version-to-version change

hiahliahts.

Programmer and internal documentation:

libipeq.doc How to use the JPFG 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

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**

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jaypeg") is a standardized compression method for full-color and grav-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 lowquality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPFG 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

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cipeg" and "dipeg", 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

To avoid entanglement with the Unisvs 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/ipeg/ifif.txt. gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.

IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).

Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sqi.com or from ftp:// ftp.uu.net/graphics/ipeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design.

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

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/ jpeg. This particular version will be archived as ftp://ftp. uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz.

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

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.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.fags. org/fags/jpeg-fag/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit. ftp://rtfm.mit.edu/pub/usenet/news.answers/ipeqfag/.

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send usenet/news.answers/jpeq-fag/part1 send usenet/news.answers/jpeq-fag/part2

#### 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 cipeg/dipeg 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/ipeq/. 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!

TO 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

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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:

David Turner <david.turner@freetype.org>
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