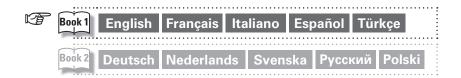
DENON

AV SURROUND RECEIVER

AVR-1311

Owner's Manual
Manuel de l'Utilisateur
Manuale delle istruzioni
Manual del usuario
Kullanım Kılavuzu





Version simplifiée Versione semplice Versión sencilla Basit versiyon



Version basique Versione base Versión básica Temel versiyon











Version avancée Versione avanzata Versión avanzada Gelişmiş versiyon



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Informazion

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nformación

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inliS

"Parça isimleri ve fonksiyonları" (sayfa 41)

□ SAFETY PRECAUTIONS



CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN



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.

IMPOTANT SAFETY INSTRUCTIONS

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings.
 Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. 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.

□ NOTE ON USE / HINWEISE ZUM GEBRAUCH / OBSERVATIONS RELATIVES A L'UTILISATION

WARNINGS WARNHINWEISE

- Avoid high temperatures.
 Allow for sufficient heat dispersion when installed in a rack.
- Handle the power cord carefully.
 Hold the plug when unplugging the cord.
- Keep the unit free from moisture, water, and dust.
- Unplug the power cord when not using the unit for long periods of time
- Do not obstruct the ventilation holes.
 Do not lot foreign a his ste into the
- Do not let foreign objects into the unit.
- Do not let insecticides, benzene, and thinner come in contact with the unit.
- Never disassemble or modify the unit in any way.
- Ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths or curtains.
- Naked flame sources such as lighted candles should not 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.
- Do not handle the mains cord with wet hands.
- When the switch is in the OFF position, the equipment is not completely switched off from MAINS.
- The equipment shall be installed near the power supply so that the power supply is easily accessible.

- Vermeiden Sie hohe Temperaturen.
 Beachten Sie, dass eine ausreichende
 Belüftung gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird.
- Gehen Sie vorsichtig mit dem Netzkabel um.
 Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen.
- Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern.
- Wenn das Gerät längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker.
- Decken Sie den Lüftungsbereich nicht ab.
- Lassen Sie keine fremden Gegenstände in das Gerät kommen.
- Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen.
- Versuchen Sie niemals das Gerät auseinander zu nehmen oder zu verändern.
- 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.
- Das Netzkabel nicht mit feuchten oder nassen Händen anfassen.
- Wenn der Schalter ausgeschaltet ist (OFF-Position), ist das Gerät nicht vollständig vom Stromnetz (MAINS) abgetrennt.
- Das Gerät sollte in der Nähe einer Netzsteckdose aufgestellt werden, damit es leicht an das Stromnetz angeschlossen werden kann.

AVERTISSEMENTS

- Eviter des températures élevées.
 Tenir compte d'une dispersion
 de chaleur suffisante lors de
 l'installation sur une étagère.
- Manipuler le cordon d'alimentation avec précaution.
 Tenir la prise lors du débranchement du cordon.
- Protéger l'appareil contre l'humidité, l'eau et la poussière.
- Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes.
- Ne pas obstruer les trous d'aération.
- Ne pas laisser des objets étrangers dans l'appareil.
- Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil.
- Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre
- Ne pas recouvrir les orifi ces de ventilation avec des objets tels que des journaux, nappes ou rideaux. Cela entraverait la ventilation.
- Ne jamais placer de flamme nue sur l'appareil, notamment des bougies allumées.
- 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.
- Ne pas manipuler le cordon d'alimentation avec les mains mouillées.
- Lorsque l'interrupteur est sur la position OFF, l'appareil n'est pas complètement déconnecté du SECTEUR (MAINS).
- L'appareil sera installé près de la source d'alimentation, de sorte que cette dernière soit facilement accessible.

□ NOTE SULL'USO / NOTAS SOBRE EL USO / ALVORENS TE GEBRUIKEN / OBSERVERA ANGÅENDE ANVÄNDNINGEN / ЗАМЕЧАНИЯ ПО ЭКСПЛУАТАЦИИ / WSKAZÓWKI DOTYCZĄCE OBSŁUGI / KULLANIM NOTLARI

AVVERTENZE	ADVERTENCIAS	WAARSCHUWINGEN	VARNINGAR	ПРЕДОСТЕРЕЖЕНИЕ	OSTRZEŻENIE	UYARI
 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. Manneggiate il cavo di alimentazione con attenzione. Tenete ferma la spina quando scollegate il cavo dalla presa. Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere. Scollegate il cavo di alimentazione quando prevedete di non utilizzare l'unità per un lungo periodo di tempo. Non coprite i fori di ventilazione. Non inserite corpi estranei all'interno dell'unità. Assicuratevi che l'unità non entri in contatto con insetticidi, benzolo o solventi. Non smontate né modificate l'unità in alcun modo. Le aperture di ventilazione non devono essere ostruite coprendole con oggetti, quali giornali, tovaglie, tende e così via. Non posizionate sull'unità fi amme 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. Non toccare il cavo di alimentazione con le mani bagnate. Quando l'interruttore è nella posizione OFF, l'apparecchiatura non è completamente scollegata da MAINS. L'apparecchio va installato in prossimità della fonte di alimentazione, in modo che quest'ultima sia facilmente accessibile. 	 Evite altas temperaturas. Permite la suficiente dispersión del calor cuando está instalado en la consola. Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía. Mantenga el equipo libre de humedad, agua y polvo. Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo. No obstruya los orificios de ventilación. No deje objetos extraños dentro del equipo. No permita el contacto de insecticidas, gasolina y diluyentes con el equipo. Nunca desarme o modifique el equipo de ninguna manera. La ventilación no debe quedar obstruida por haberse cubierto las aperturas con objetos como periódicos, manteles o cortinas. No deberán colocarse sobre el aparato fuentes inflamables 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. No maneje el cable de alimentación con las manos mojadas. Cuando el interruptor está en la posición OFF, el equipo no está completamente desconectado de la alimentación MAINS. El equipo se instalará cerca de la fuente de alimentación de manera que resulte fácil acceder a ella. 	 Vermijd hoge temperaturen. Zorg er bij installatie in een audiorack voor, dat de door het toestel geproduceerde warmte goed kan worden afgevoerd. Hanteer het netsnoer voorzichtig. Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld. Laat geen vochtigheid, water of stof in het apparaat binnendringen. Neem altijd het netsnoer uit het stopkontakt wanneer het apparaat gedurende een lange periode niet wordt gebruikt. De ventilatieopeningen mogen niet worden beblokkeerd. Laat geen vreemde voorwerpen in dit apparaat vallen. Voorkom dat insecticiden, benzeen of verfverdunner met dit toestel in contact komen. Dit toestel mag niet gedemonteerd of aangepast worden. De ventilatie mag niet worden belemmerd door de ventilatieopeningen af te dekken met bijvoorbeeld kranten, een tafelkleed of gordijnen. Plaats geen open vlammen, bijvoorbeeld een brandende kaars, op het apparaat. Houd u steeds aan de milieuwoorschriften 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. Raak het netsnoer niet met natte handen aan. Als de schakelaar op OFF staat, is het apparaat niet volledig losgekoppeld van de netspanning (MAINS). De apparatuur wordt in de buurt van het stopcontact geïnstalleerd, zodat dit altijd gemakkelijk toegankelijk is. 	 Undvik höga temperaturer. Se till att det finns möjlighet till god värmeavledning vid montering i ett rack. Hantera nätkabeln varsamt. Häll i kabeln när den kopplas från el-uttaget. Utsätt inte apparaten för fukt, vatten och damm. Koppla loss nätkabeln om apparaten inte kommer att användas i lång tid. Täpp inte till ventilationsöppningarna. Se till att främmande föremål inte tränger in i apparaten. Se till att inte insektsmedel på spraybruk, bensen och thinner kommer i kontakt med apparatens hölje. Ta inte isär apparaten och försök inte bygga om den. Ventilationen bör inte förhindras genom att täcka för ventilationsöppningarna med föremål såsom tidningar, bordsdukar eller gardiner. Placera inte öppen eld, t.ex. tända ljus, 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. Hantera inte nätsladden med väta händer. Även om strömbrytaren står i det avstängda läget OFF, så är utrustningen inte helt bortkopplad från det elektriska nätet (MAINS). Utrustningen ska vara installerad nära strömuttaget så att strömförsörjningen är lätt att tillgå. 	 Избегайте высоких температур. Учитывайте значительное распределение тепла при установке устройства на полку. Будьте осторожны при включении/отключении кабеля питания. При включении/отключении кабеля питания. При включении/отключении кабеля питания. При включении/отключении кабеля питания беритесь за вилку. Не подвергайте устройство воздействию влаги, воды и пыли. Если устройство не будет использоваться в течение длительного времени, отключите кабель питания от сети. Не закрывайте вентиляционные отверстия. Следите, чтобы посторонние предметы не попадали внутрь устройства. Предохраняйте устройство от воздействия ядохимикатов, бензина и растворителей. Никогда не разбирайте и не модифицируйте устройство. Не закрывайте вентиляционные отверстия такими предметами, как газеты, скатерти, шторы и др. Не размещайте на поверхности аппарата источники открытого огня, например свечи. Обратите внимание на экологические аспекты утилизации батарей питания. Следите, чтобы на устройство не проливалась вода. Не располагайте емкости, в которых содержится вода, на устройстве. Не прикасайтесь к сетевому шнуру мокрыми руками. Когда переключатель установлен в положение ВЫКЛ, оборудование не полностью отключено от СЕТИ ПИТАНИЯ. Оборудование следует устанавлявть возле источника питания, чтобы его можно было легко подключить. 	 Unikaj wysokich temperatur. Jeśli urządzenie jest ustawione w szafce, należy zapewnić odpowiednią cyrkulację powietrza. Obchodź się ostrożnie z przewodem zasilającym. Odłączając przewód z gniazda elektrycznego, trzymaj zawsze za wtyczkę. Chroń urządzenie przed wilgocią, wodą i pyłem. Odłącz przewód zasilający z sieci, jeśli urządzenie nie jest używane przez dłuższy czas. Nie zakrywaj otworów wentylacyjnych. Zwróć uwagę, aby do środka urządzenia nie dostały się żadne obce przedmioty. Chroń urządzenie przed kontaktem z środkami owadobójczymi, benzyną oraz rozpuszczalnikiem. Nie rozbieraj urządzenia oraz nie dokonuj w nim żadnych modyfikacji. Nie należy ograniczać wentylacji urządzenia, np. poprzez zakrycie otworów wentylacyjnych gazetami, obrusem, zasłonami itp. Na urządzeniu nie wolno stawiać żadnych źródeł otwartego ognia, np. zapalonych świec. Przestrzegaj lokalnych przepisów dotyczących utylizacji baterii. Chroń urządzenie przez zachlapaniem lub kapaniem wszelkich cieczy. Nie stawiaj na urządzeniu żadnych przedmiotów napełnionych wodą, np. wazonów. Nie dotykać przewodu zasilającego mokrymi rękoma. Gdy wyłącznik znajduje się w położeniu OFF (wył.), urządzenie nie jest całkowicie odłączone od zasilania. Urządzenie należy ustawić w pobliżu źródła zasilania, aby zapewnić do niego łatwy dostęp. 	Yüksek sıcaklıklardan kaçınınız. Bir raf içinde kuruluysa yeterl ısı dağılımı olmasına dikkat ediniz. Güç kablosunu dikkatli kullanınız. Kabloyu fişten çekerken prizden tutunuz. Üniteyi nem, su ve tozdan uzak tutunuz. Ünite uzun süre kullanılmayacaksa ünitenin kablosunu prizden çekiniz. Havalandırma deliklerini kapatmayınız. Üniteye yabancı cisim girmesine izin vermeyiniz. Böcek ilacı, benzen ve tiner gibi maddeleri üniteyle temasettirmeyiniz. Üniteyi asla hiçbir şekilde sökmeyiniz ve üzerinde değişiklik yapmayınız. Havalandırma gazete, masa örtüsü, perde ve benzeri cisimlerle kapatılarak engellenmemelidir. Yanan mum gibi açık alev kaynağı cisimleri üniteye yaklaştırmayınız. Pillerin atılması ile ilgili yerel yasa ve düzenlemelere riayet ediniz. Üniteyi, üzerine sıvı damlama veya sıçrama ihtimali olan yerlerde bulundurmayınız. Vazo gibi sıvıyla dolu cisimler ünitenin üzerine koymayınız. Mains kablosunu ıslak elle tutmayınız. Sviç OFF (Kapalı) konumunda olduğunda, ekipman MAINS'ten tamamen kapatılamaz. Ekipman güç kaynağının yakınlarını monte edilmelidir böylelikle güç kaynağına kolayca erişilebilir.

☐ For EU countries

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 Low Voltage Directive 2006/95/EC and EMC Directive 2004/108/EC, the EC regulation 1275/2008 and its frame work Directive 2009/125/EC for Energy-related Products (ErP).

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. Following the provisions of low voltage directive 2006/95/EC and EMC directive 2004/108/EC, the EC regulation 1275/2008 and its frame work directive 2009/125/EC for energy-related products (ErP).

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.

Selon la directive 2006/95/EC concernant la basse tension et la directive CEM 2004/108/EC, la réglementation européenne 1275/2008 et la directive 2009/125/EC établissant un cadre de travail applicable aux produits liés à l'énergie (ErP).

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.

Facendo seguito alle disposizioni della direttiva sul basso voltaggio 2006/95/EC alla direttiva EMC 2004/108/EC, alla norma EC 1275/2008 e alla relativa legge quadro 2009/125/EC in materia di prodotti alimentati ad energia (ErP).

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 v EN61000-3-3.

De acuerdo con la directiva sobre baja tensión 2006/95/CE y la directiva sobre CEM 2004/108/CE, la normativa CE 1275/2008 y su directiva marco 2009/125/EC para productos relacionados con la energía (ErP).

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 voorzieningen van lage spanningsrichtlijn 2006/95/EC en EMC-richtlijn 2004/108/EC, de EU-richtlijn 1275/2008 en de kaderrichtlijn 2009/125/EC voor energieverbruikende producten (ErP).

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. Uppfyller reglerna i lågspänningsdirektivet 2006/95/EC och EMC-direktivet 2004/108/EC, EU-förordningen 1275/2008 och ramverksdirektivet 2009/125/EC för energirelaterade produkter (ErP).

• СЕРТИФИКАТ СООТВЕТСТВИЯ

Мы гарантируем, что данный продукт, к которому прилагается данный сертификат, соответствует требованиям следующих стандартов:

EN60065, EN55013, EN55020, EN61000-3-2 и EN61000-3-3. В соответствии с положениями директивы Директива по низковольтным устройствам 2006/95/ЕС и директивы EMC Directive 2004/108/EC, распоряжения EC 1275/2008 и директивы 2009/125/ЕС для энергопотребляющих устройств.

DEKLARACJA ZGODNOŚCI

Deklarujemy z pełną odpowiedzialnością, że produkt, którego dotyczy niniejsza deklaracja, jest zgodny z następującymi normami: EN60065, EN55013, EN55020, EN61000-3-2 oraz EN61000-3-3. Zgodnie z postanowieniami Dyrektywy niskonapięciowej 2006/95/EC oraz Dyrektywy EMC 2004/108/EC, Regulacji EC 1275/2008 oraz Dyrektywy ramowej 2009/125/EC dotyczącej urządzeń elektrycznych (FrP)

UYGUNLUK BEYANI

Sorumluluğu tamamen kendimize ait olarak; işbu beyan konusu ürünün aşağıdaki standartlara uygun olduğunu beyan ederiz: EN60065, EN55013, EN55020, EN61000-3-2 ve EN61000-3-3. Düşük Voltaj Yönergesi 2006/95/EC ve EMC Yönergesi 2004/108/ EC'nin, EC yönetmeliği 1275/2008'in ve Enerji ile ilgili Ürünlere ilişkin (ErP) çerçeve Yönerge 2009/125/EC'nin hükümlerine uygundur.

DENON EUROPE Division of D&M Germany GmbH An der Kleinbahn 18, Nettetal, D-41334 Germany

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.

ОСТОРОЖНО:

Для того чтобы полностью отключить данный продукт от сети, выньте штепсельную вилку кабеля питания из розеткиt.

При установке данного продукта убедитесь в том, что используемая розетка находится в зоне досягаемости.

UWAGA:

W celu całkowitego odłączenia tego urządzenia od zasilania, należy wyjąć wtyczkę z gniazda elektrycznego.

Przewód zasilający umożliwia całkowite odłączenie dopływu zasilania do urządzenia i musi być łatwo dostępny dla użytkownika.

DIKKAT:

Ürünün elektrikle bağlantısını tamamen kesmek için fişi, duvardaki prizden cekiniz.

Elektrik prizi, cihaza gelen elektriği bütünüyle kesmek için kullanılmakta olup kullanıcının kolayca erişebileceği bir yerde olmalıdır.

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 vigueur.

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.

ПРИМЕЧАНИЕ О ПЕРЕРАБОТКЕ:

Упаковочный материал данного продукта может быть переработан и повторно использован. Пожалуйста, сортируйте материалы в соответствии с местными требованиями переработки.

При утилизации определенных блоков соблюдайте местные правила утилизации.

Не выбрасывайте и не сжигайте батарейки, соблюдайте местные правила утилизации химических отходов.

Данный продукт и аксессуары в упаковке соответствуют директиве WEEE, исключая батарейки.

INFORMACJE DOTYCZACE RECYKLINGU:

Opakowanie urządzenia zostało wykonane z materiałów nadających się do wtórnego przetworzenia. Utylizację wszelkich materiałów należy przeprowadzić zgodnie z obowiazującymi lokalnymi przepisami dotyczącymi recyklingu.

Urządzenie należy zutylizować zgodnie z lokalnymi przepisami.

Baterii nie wolno wyrzucać do śmieci lub palić. Należy je zutylizować zgodnie z obowiązującymi zasadami dotyczącymi utylizacji baterii.

Niniejszy produkt oraz dostarczone wraz z nim akcesoria (oprócz baterii) stanowia właściwy produkt, zgodnie z dyrektywa WEEE.

GERİ DÖNÜSÜME İLİSKİN NOT:

Bu ürünün ambalajı geri dönüştürülebilir ve yeniden kullanılabilir niteliktedir. Materyalleri lütfen yerel geri dönüşüm yasa ve düzenlemelerine uygun biçimde atınız. Üniteyi hurdaya çıkartırken mahalli yasa ve düzenlemelere riayet ediniz.

Piller asla rastqele atılmamalı ve yakılmamalı, bunun yerine pil atıklarına iliskin mahalli yasa ve düzenlemelere uygun bicimde imha edilmelidir.

Bu ürün ve beraberinde gelen aksesuarları, pilleri hariç olmak kaydıyla, WEEE yönergesi uyarınca kapsam içi ürün niteliğindedir.

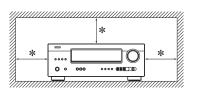


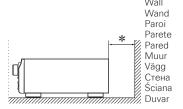




Pb

□ Cautions on installation / Vorsichtshinweise zur aufstellung / Précautions d'installation / Precauzioni sull'installazione / Emplazamiento de la instalación / Voorzorgsmaatregelen bij de installatie / Försiktighet vid installationen / Меры предосторожности при установке / Uwagi dotyczące instalacji /Montaj sirasinda alinacak önlemler





- * For proper heat dispersal, do not install this unit in a confined space, such as a bookcase or similar enclosure.
 - More than 0.3 m is recommended.
 - Do not place any other equipment on this unit.
- * Stellen Sie das Gerät nicht an einem geschlossenen Ort, wie in einem Bücherregal oder einer ähnlichen Einrichtung auf, da dies eine ausreichende Belüftung des Geräts behindern könnte.
 - Empfohlen wird über 0.3 m.
 - Keine anderen Gegenstände auf das Gerät stellen.
- * Pour permettre la dissipation de chaleur requise, n'installez pas cette unité dans un espace confiné tel qu'une bibliothèque ou un endroit similaire.
 - Une distance de plus de 0,3 m est recommandée.
 - Ne placez aucun matériel sur cet appareil.
- * Per una dispersione adeguata del calore, non installare questa apparecchiatura in uno spazio ristretto, come ad esempio una libreria o simili.
 - Si raccomanda una distanza superiore ai 0.3 m.
 - Non posizionare alcun altro oggetto o dispositivo su questo dispositivo.
- * Para la dispersión del calor adecuadamente, no instale este equipo en un lugar confinado tal como una librería o unidad similar.
 - Se recomienda dejar más de 0,3 m alrededor.
 - No coloque ningún otro equipo sobre la unidad.
- * Plaats dit toestel niet in een kleine afgesloten ruimte, zoals een boekenkast e.d., omdat anders de warmte niet op gepaste wijze kan worden afgevoerd.
 - Meer dan 0.3 m is aanbevolen.
 - Plaats geen andere apparatuur op het toestel.
- * För att tillförsäkra god värmeavledning får utrustningen inte installeras i instängda utrymmen, som t.ex. en bokhylla eller liknande.
 - Mer än 0,3 m rekommenderas.
 - Placera ingen annan utrustning ovanpå den här enheten.
- * Чтобы не препятствовать отводу тепла, не устанавливайте блок в закрытое ограниченное пространство, например, в книжный шкаф и т.п.
 - Рекомендуемое расстояние не менее 0,3 м.
 - Не размещайте какое-либо другое оборудование на этом модуле.
- * Ze względu na prawidłowe odprowadzanie ciepła, należy pamiętać o zachowaniu odpowiedniej przestrzeni wokół urządzenia. Nie należy umieszczać urządzenia w zamkniętych szafkach lub podobnych ograniczonych przestrzeniach.
 - Zalecane jest zachowanie odległości powyżej 0,3 metra.
 - Nie należy stawiać na tym urządzeniu żadnego innego sprzętu.
- * İsının düzgün şekilde dağılması için, bu üniteyi kitaplık veya benzeri dar alanlara yerleştirmeyiniz.
 - 0.3 m'den daha fazlası önerilir.
 - Bu ünitenin üzerine başka herhangi bir ekipman yerleştirmeyin.

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.

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Accessories

Check that the following parts are supplied with the product.

Owner's manual Service network lis Power cord (Cord I Remote control un Ro3/AAA batteries AM loop antenna FM indoor antenna	tength: Approx. 1.7 it (RC-1149)	7 m)	1 1 1 2
3	4	6	7

About this manual

□ Operation buttons

The operations described in this manual are based mainly on remote control operation.

□ Symbols



This symbol indicates a reference page on which related information is described.



This symbol indicates a supplementary information and tips for operations.

NOTE

This symbol indicates points to remember operations or function limitations.

□ Illustrations

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

Features

Fully Discrete, identical quality and power for all 5 channels (110 W x 5ch)

The unit is equipped with a power amplifier that plays back highfidelity sound in surround mode with equal quality and power for all channels, true to the original sound.

The power amplifier circuit adopts a discrete-circuit configuration that achieves high-quality surround sound play back.

Supports HDMI 1.4a with 3D, Deep Color and x.v.Color function

This unit can output 3D video signals input from a Blu-ray Disc player to a TV that supports a 3D system.

4-HDMI inputs and 1-output

The unit is equipped with 4 HDMI input connectors for connecting devices with HDMI connectors, such as a Blu-ray Disc player, game machine, HD video camera, etc.

High Definition Audio Support

The unit is equipped with a decoder which supports high-quality digital audio format for Blu-ray Disc players such as Dolby TrueHD, DTS-HD Master Audio, etc.

Dock connecrivity for iPod[®] and network streaming

If an optional DENON control dock for iPod (ASD-3N, ASD-3W, ASD-51N or ASD-51W) is connected to this unit, you can listen to Internet radio or enjoy music and photos stored in your PC.

* An Internet connection environment is required.

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 going on vacation or leaving home for long periods of time, be sure to unplug the power cord from the power outlet.

About Condensation

If there is a major difference in temperature between the inside of the unit and the surroundings, condensation (dew) may form on the operating parts inside the unit, causing the unit not to operate properly.

If this happens, let the unit sit for an hour or two with the power turned off and wait until there is little difference in temperature before using the unit.

Cautions on using mobile phones

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

Moving the unit

Turn off the power and unplug the power cord from the power outlet. Next, disconnect the connection cables to other system units 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.

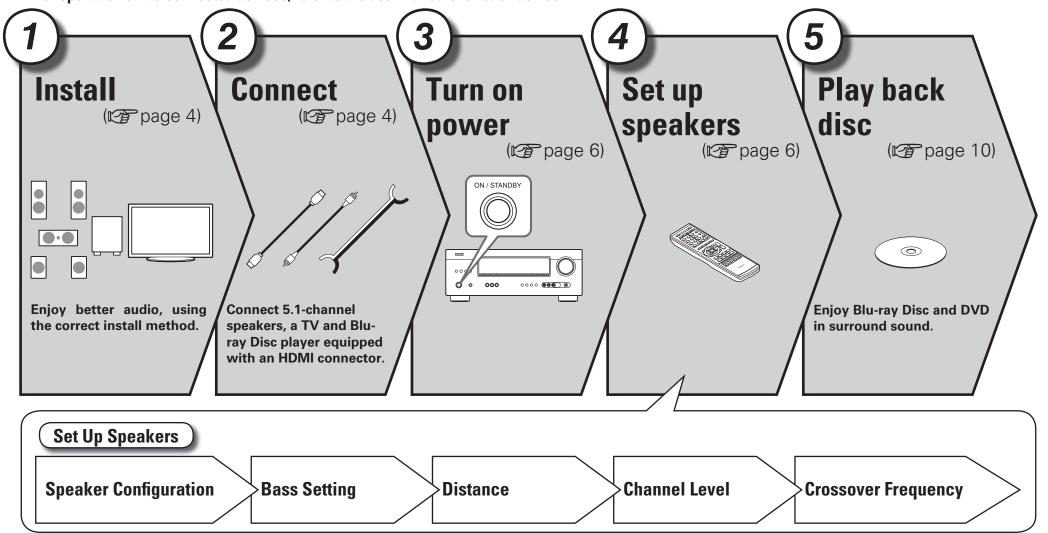
Simple version (Simple setup guide)

Here, we explain the entire setup procedure, from unboxing the unit to using it in a home theater.

Standard settings have been made for the speaker as default.

For optimum surround playback, adjustment of the distance of speakers and sound level of each channel, using the test tone, are required, depending on the environment for speakers to be used.

- ☐ Before connecting the unit, turn off the power to all devices.
- ☐ For operation of the connected devices, refer to the user manuals for each device.



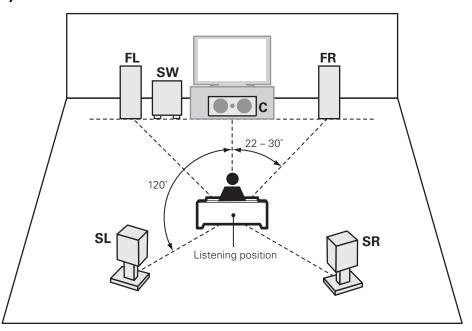








This unit can perform 2.0/2.1 to 7.1-channel surround playback. Here, we explain setup using the example of 5.1-channel speaker playback.



FL Front speaker (L)

FR Front speaker (R)

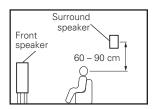
C Center speaker

SW Subwoofer

SL Surround speaker (L)

SR Surround speaker (R)

• Install the surround speakers in a position 60 to 90 cm higher than ear level.



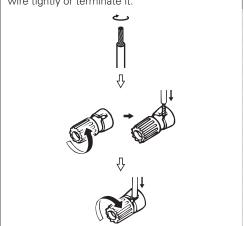
[Viewed from the side]

Speakers

Carefully check the left (L) and right (R) channels and + (red) and – (black) polarities on the speakers being connected to the this unit, and be sure to interconnect the channels and polarities correctly.

Connecting the speaker cables

Peel off about 10 mm of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it.



NOTE

- Connect so that the speaker cable core wires do not protrude from the speaker terminal.
 The protection circuit may be activated if the core wires touch the rear panel or if the + and – sides touch each other (P page 50 "Protection Circuit").
- Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock.
- Use speakers with the speaker impedances shown below.

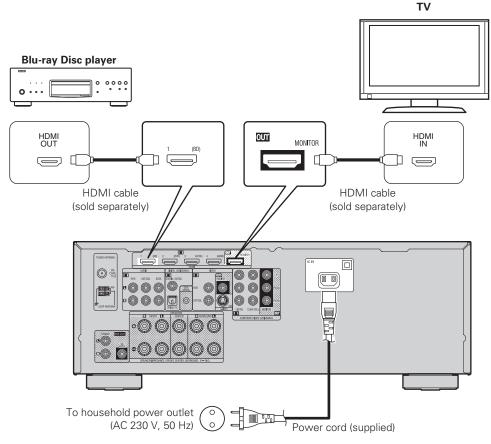
Speaker terminals	Speaker impedance
FRONT	
CENTER	6 – 16 Ω
SURROUND	

PRE OUT Audio cable (sold separately) FR FL รพ Speaker cables Subwoofer with built-in (sold separately) amplifier

Blu-ray Disc player and TV

Use only an HDMI (High Definition Multimedia Interface) cable that bears the HDMI logo (a certified HDMI product). Using a cable without the HDMI logo (an uncertified HDMI product) may result in abnormal playback.

When outputting Deep Color or 1080p, etc., we recommend you use "High Speed HDMI cable " or "High Speed HDMI cable with Ethernet" for enhanced high-quality playback.



NOTE

- Do not plug in the power cord until all connections have been completed.
- Do not bundle power cords together with connection cables. Doing so can result in humming or noise.

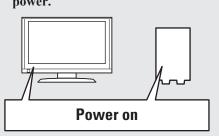
3 Turn on power



4) Set up speakers

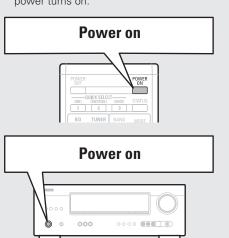






- **2** Change the TV input to the input of this unit.
- **3** Press **POWER ON** to turn on power to the unit.

The power indicator flashes green and the power turns on.



The settings for the following 5 items should be made:

Speaker Config.

Select speaker configuration and size (bass reproduction capability).

Bass Setting

Set subwoofer and LFE signal range playback.

Distance

Set distance from listening position to speakers. Measure beforehand the distance from the listening position to each speaker.

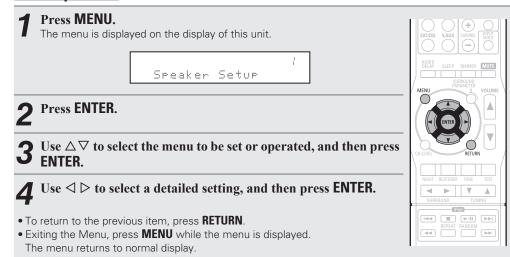
Channel Level

Set the volume of the test tone to be the same when it is output from each speaker.

Crossover Freq.

Set the maximum frequency of the bass signal output from each channel to the subwoofer. Set the Crossover Frequency to suit the bass reproduction capability of the speaker being used.

Menu operation



Speaker Config.

Default settings are underlined.

→ Press MENU.

The menu is displayed on the display of this unit.

/ Speaker Setup

2 Use $\triangle \nabla$ to select "Speaker Setup", and then press ENTER.

// Speaker Config.

3 Use $\triangle \nabla$ to select "Speaker Config.", and then press ENTER.

//: Front :∢Lar9e⊧

NOTE

Do not use the outward shape of the speaker to determine selection of a "Large" or "Small" speaker. Instead, use the frequencies set in "Crossover Frequency" (Frage 9) as the standard for determining bass reproduction capability.

4 Use $\triangle \nabla$ to select a speaker, and use $\triangleleft \triangleright$ to select a detailed setting.

Items to be set are shown below.

ront Set the front speaker size.

- Large: Use a large speaker that can adequately play back low frequencies.
- Small: Use a small speaker that has inadequate playback capacity for low frequencies.



- When "SW" is set to "No", "Front" is automatically set to "Large".
- When "Front" is set to "Small", "Center", "Surround" and "S.B(Pre)" can not be set to "Large".

Center Set the presence and size of the center speaker.

- Large: Use a large speaker that can adequately play back low frequencies.
- <u>Small</u>: Use a small speaker that has inadequate playback capacity for low frequencies.
- None: Select when a center speaker is not connected.
- Large" is not displayed when "Front" is set to "Small".

Surround Set the presence and size of the surround speakers.

- Large: Use a large speaker that can adequately play back low frequencies.
- <u>Small</u>: Use a small speaker that has inadequate playback capacity for low frequencies.
- **None**: Select when the surround speakers are not connected.



- When "Surround" is set to "Large", "S.B(Pre)" can be set to "Large".
- When "Surround" is set to "None", "S.B(Pre)" can automatically set to "None".

S.B(Pre) Set the presence, size and number of surround (Surround Back) back speakers.

- Large: Use a large speaker that can adequately play back low frequencies.
- Small: Use a small speaker that has inadequate playback capacity for low frequencies.
- None: Select when the surround back speakers are not connected.
- Even when the "S.B(Pre)" setting is other than "None", sound may not be emitted from the surround back speaker, depending on the playback source. In this case, make "Surround Parameter" "SB CH OUT" (Programmed Programmed *SW** (Subwoofer) Set the presence of a subwoofer.

- Yes : Use a subwoofer.
- No : Select when a subwoofer is not connected.
- When "Front" is set to "Small", "SW" is automatically set to "Yes".

5 Press ENTER to enter the setting.

Speaker Config.

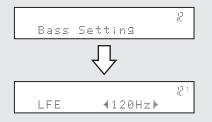


Confirm the setting

Bass Setting

Default settings are underlined.

Use $\triangle \nabla$ to select "Bass Setting", and then press ENTER.



9 Use $\triangleleft \triangleright$ to select the frequency.

Set LFE signal playback range.

• 80Hz / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz

3 Use $\triangle \nabla$ to select "Mode", and use $\triangleleft \triangleright$ to select a detailed setting.



Select low range signals to be reproduced by subwoofer.

- LFE : The low range signal of the channel set to "Small" speaker size is added to the LFE signal output from the subwoofer.
- LFE+Main : The low range signal of all channels is added to the LFE signal output from the subwoofer.



- "Mode" can be set when "Speaker Config." -"SW" (Page 7) is set to "Yes".
- Play music or a movie source and select the mode offering the strongest bass.
- Select "LFE+Main" if you want the bass signals to always be produced from the subwoofer.

NOTE

If "Front" and "Center" for "Speaker Config." are set to "Large", and "Mode" is set to "LFE", no sound may be output from the subwoofers, depending on the input signal or selected surround mode.

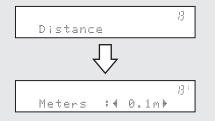
⚠ Press ENTER to enter the setting.

Bass Setting

Distance

Default settings are underlined.

Use $\triangle \nabla$ to select "Distance", and then press ENTER.



Use **♦** to change the step (minimum variable distance).

0.1m: For changing in 0.1-meter steps. 0.01m: For changing in 0.01-meter steps. Use $\triangle \nabla$ to select a speaker, and use $\triangleleft \triangleright$ to select distance.

FL/FR/C/SW/SL/SR/SBL*/SBR*

Select the speaker.

- * When the "Speaker Config." "S.B(Pre)" (rapage 7) setting is set to "None", "SBL" and "SBR" is not displayed.
- 0.00m 18.00m : Set the distance.



- The speakers that can be selected differ depending on the "Speaker Config." (page 7) settings.
- Default settings : FL / FR / C / SW : 3.6 m SL/SR/SBL/SBR: 3.0 m
- Set the difference in the distance between the speakers to less than 6.0 m.

NOTE

Speakers set to "None" in "Speaker Config." (rappage 7) are not displayed.

⚠ Press ENTER to enter the setting.

Distance

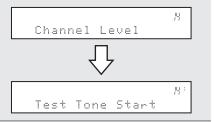
Channel Level

Default settings are underlined.

Crossover Freq.

Default settings are underlined.

1 Use $\triangle \nabla$ to select "Channel Level", and then press **ENTER**.



Press ENTER.
Output test tone.

3 Use $\triangle \nabla$ to select a speaker, and use $\triangleleft \triangleright$ to adjust the sound volume of each speaker to be equal.

FL/C/FR/SR/SBR*/SBL*/SL/SW

Select the speaker.

- * When the "Speaker Config." "S.B(Pre)"
 (@page 7) setting is set to "None",
 "SBL" and "SBR" is not displayed.
- -12.0dB +12.0dB (<u>0.0dB</u>) : Adjust the volume.



- When d is pressed while the subwoofer volume is set to "-12 dB", the "SW" setting switches to "OFF".
- When "Channel Level" is adjusted, the adjusted values are set for all the surround modes. To adjust the channel level separately for the different surround modes, use the operation see page 29.

NOTE

- Speakers set to "None" in the "Speaker Config." (Page 7) settings are not displayed.
- When a headphones jack is inserted in the PHONES jack of this unit, the "Channel Level" is not displayed.

Default The "Channel Level" settings are returned to the default settings.

- Yes: Reset to the defaults.
- No : Do not reset to the defaults.

Press ENTER to enter the setting.

Test Tone Start

5 Press RETURN.

Channel Level

Outputting a test tone directly with remote control operation

This is operable when the surround mode is Dolby Pro Logic II, Dolby Pro Logic IIx, or DTS NEO:6.

- 1) Press **TEST**.
 - The test tone is output from the "L" channel of the front speakers.
- ② Use ▷ to adjust the sound volume of each speaker to be equal.
- ③ Use $\Delta \nabla$ to select the next speaker for outputting the test tone.
- 4 Once adjustment is completed, press TEST again.

1 Use $\triangle \nabla$ to select "Crossover Freq.", and then press ENTER.



2 Use $\triangle \nabla$ to select a speaker, and use $\triangleleft \triangleright$ to select the frequency.

Front / Center / Surround / S.Back

Specify crossover frequency for each speaker.

40Hz / 60Hz / 80Hz / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz : Set the crossover frequency.



- "Crossover Freq." can be set when the "Bass Setting" "Mode" (Page 8) setting is "LFE+Main", or when you have a speaker that is set to "Small".
- Always set the crossover frequency to "80Hz".
 When using small speakers, however, we recommend setting the crossover frequency to a higher frequency.
- For speakers set to "Small", sound below the crossover frequency is cut from the sound output. The cut bass sound is output from the subwoofer or front speakers.
- The "Mode" setting (@page 8) determines which speakers can be set.
- When "LFE" is selected, speakers set to "Small" at "Speaker Config." can be set. If the speakers are set to "Large", "- Full -" is displayed and the setting cannot be made.
- If set to "LFE+Main", this setting can be made regardless of the speaker size.

? Press ENTER to enter the setting.

5 Crossover Freq.

4 Press MENU.

The menu returns to normal display.





Confirm the setting



Play back disc



Press BD to switch an input source for a player used for playback.

Play the component connected to this unit.

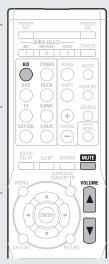
Make the necessary settings on the player (language setting, subtitles setting, etc.) beforehand.

Adjust the sound volume.

VOL ▲ Volume up
VOL ▼ Volume down
MUTE Mutino



Set the listening mode.Set the listening mode according to the playback contents (cinema, music, etc.) or according to your liking (page 23 "Selecting a listening mode (Surround mode)").

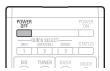


When power is switched to standby

Press POWER OFF.

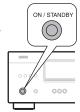
[Power indicator status in standby mode]

• Normal standby : Off





You can also switch the power to standby by pressing **ON/STANDBY** on the main unit.



NOTE

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



Basic version

Here, we explain the connections and basic operation methods for this unit.

- Connections page 12
- Playback (Basic operation)

 page 17
- Selecting a listening mode (Surround mode) page 23

□ Refer to the pages indicated below for information on connecting and playing back the various media and external devices.

Audio and video	Connection	Playback
TV	☞ page 12, 13	-
Blu-ray Disc player	page 12, 14 page 12, 14	page 17
DVD player	page 12, 14	page 17
Set-top box (Satellite tuner or cable TV)	page 12, 14	-
Game console	r page 12	-
Digital camcorder	page 15	-
Control dock for iPod	page 16	page 18
Portable player	page 15	page 17
Audio	Connection	Playback
Radio	₽ page 16	page 20

For speaker connections, see page 4.

Connections

Important information

- Make connections as follows before using this unit. Select an appropriate connection type according to the components to be connected.
- You may need to make some settings on this unit depending on the connection method. Refer to each description for more information.
- Select the cables (sold separately) according to the components being connected.

NOTE

- Do not plug in the power cord until all connections have been completed.
- When making connections, also refer to the operating instructions of the other components being connected.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Do not bundle power cords together with connection cables. Doing so can result in noise.

Connecting an HDMI-compatible device

You can connect up to five HDMI-compatible devices to the unit.

HDMI function

- 3D
- Deep Color (Pr page 50)
- x.v.Color, sYCC601 color, Adobe RGB color, Adobe YCC601color (@ page 50, 51)
- High definition digital audio format

Copyright protection system

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

• 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 player for more information.

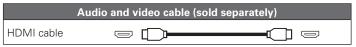
About HDMI cables

When a device supporting Deep Color signal transfer is connected, use a cable compatible "High Speed HDMI cable" or "High Speed HDMI cable with Ethernet".

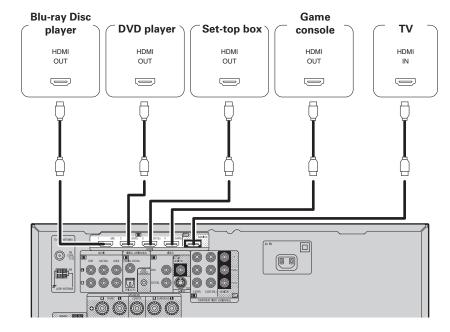
About 3D function

This unit supports input and output of 3D (3 dimensional) video signals of the HDMI 1.4a standards. For playing the 3D video content, a player, and a TV that support the 3D function of the HDMI 1.4a standards are required in addition to this unit.

Cables used for connections



• This interface allows transfer of digital video signals and digital audio signals over a single HDMI cable.





- When this unit is connected to other devices with HDMI cables, connect this unit and TV also with an HDMI cable
- When connecting a device that supports Deep Color transmission, please use a "High Speed HDMI cable" or "High Speed cable with Ethernet".
- Video signals are not output if the input video signals do not match the monitor's resolution. In this case, switch the Blu-ray Disc/DVD player's resolution to a resolution with which the monitor is compatible.
- When this unit and monitor are connected with an HDMI cable, if the monitor is not compatible with HDMI audio signal playback, only the video signals are output to the monitor.

NOTE

- The audio signal from the HDMI output connector (sampling frequency, number of channels, etc.) may be limited by the HDMI audio specifications of the connected device regarding permissible inputs.
- Only an HDMI signal is output from the HDMI MONITOR OUT connector.

Connecting an HDMI-compatible device

Connecting to a device equipped with a DVI-D connector

When an HDMI/DVI conversion cable (sold separately) is used, the HDMI video signals are converted to DVI signals, allowing connection to a device equipped with a DVI-D connector.

NOTE

- No sound is output when connected to a device equipped with a DVI-D connector. Make separate audio connections.
- Signals cannot be output to DVI-D devices that do not support HDCP.
- Depending on the combination of devices, the video signals may not be output.

☐ Settings related to HDMI connections

Set as necessary. For details, see the respective reference pages.

Other Setup (P page 36)

Make settings for HDMI audio output.

Audio Out

NOTE

The audio signals output from the HDMI connectors are only the HDMI input signals.

Connecting a TV

- Select the connector to use and connect the device.
- For instructions on HDMI connections, see "Connecting an HDMI-compatible device" (2) page 12).

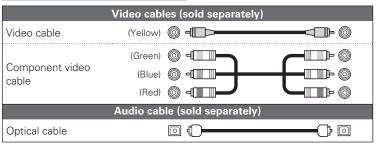


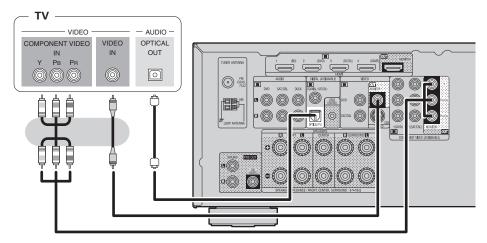
To listen to TV audio through this device, use the optical digital connection.

NOTE

- If the VIDEO input connector and S-VIDEO input connector are to be used, be sure to connect the MONITOR output connector of the unit and the VIDEO input connector of the TV, using a video cable.
- If the COMPONENT VIDEO input connectors are to be used, be sure to connect the COMPONENT MONITOR output connectors of the unit and the COMPONENT VIDEO input connectors of the TV, using a component video cable.

Cables used for connections





in Set as Necessary

Set this to change the digital input connector or component video input connector to which the input source is assigned.

"Input Assign" (P page 33)

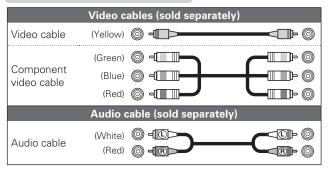
Connecting a Blu-ray Disc player / DVD player

- You can enjoy video and audio from a Blu-ray Disc or DVD.
- Select the connector to use and connect the device.
- For instructions on HDMI connections, see "Connecting an HDMI-compatible device" (Fig. page 12).

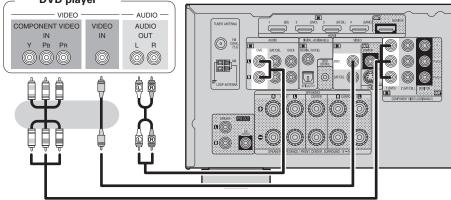
NOTE

- If the DVD VIDEO input connector is to be used, be sure to connect the MONITOR output connector of the unit and the VIDEO input connector of the TV, using a video cable.
- If the DVD COMPONENT VIDEO input connectors are to be used, be sure to connect the COMPONENT MONITOR output connectors of the unit and the COMPONENT VIDEO input connectors of the TV, using a component video cable.

Cables used for connections



Blu-ray Disc player / DVD player



in Set as Necessary

Set this to change the digital input connector or component video input connector to which the input source is assigned.

"Input Assign" (@page 33)



For HD audio (Dolby TrueHD, DTS-HD, Dolby Digital Plus and DTS Express) playback, connect with HDMI (Page 12 "Connecting an HDMI-compatible device").

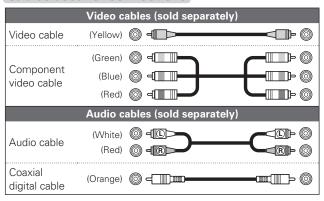
Connecting a set-top box (Satellite tuner/cable TV)

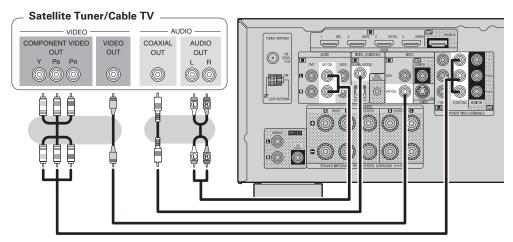
- You can watch satellite or cable TV.
- Select the connector to use and connect the device
- For instructions on HDMI connections, see "Connecting an HDMI-compatible device" (@page 12).

NOTE

- If the SAT/CBL VIDEO input connector is to be used, be sure to connect the MONITOR output connector of the unit and the VIDEO input connector of the TV, using a video cable.
- If the SAT/CBL COMPONENT VIDEO input connectors are to be used, be sure to connect the COMPONENT MONITOR output connectors of the unit and the COMPONENT VIDEO input connectors of the TV, using a video cable.

Cables used for connections





in Set as Necessary

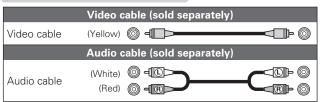
Set this to change the digital input connector or component video input connector to which the input source is assigned.

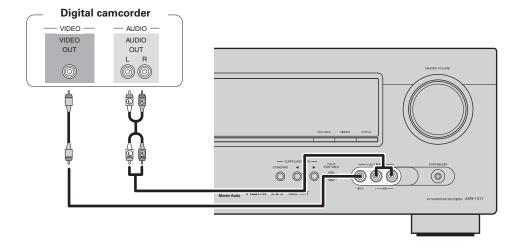
"Input Assign" (@page 33)

Connecting a digital camcorder

- You can enjoy video and audio from a digital camcorder.
- For instructions on HDMI connections, see "Connecting an HDMI-compatible device" (@page 12).

Cables used for connections





in Set as Necessary

Set this to change the digital input connector or component video input connector to which the input source is assigned.

"Input Assign" (@page 33)

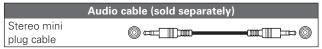


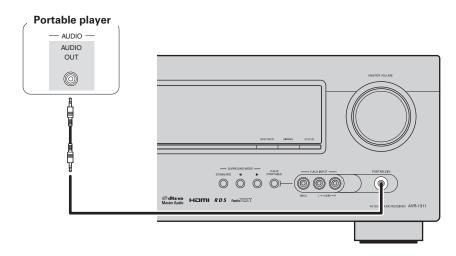
- You can enjoy games by connecting a game machine via the V.AUX input connector. In this case, set the input source to "V.AUX".
- If a portable player is connected via the PORTABLE IN jack on the front panel, playback from the portable player has priority.

Connecting a portable player

If a portable player is connected via the PORTABLE IN jack of the unit, music from the portable player can be played.

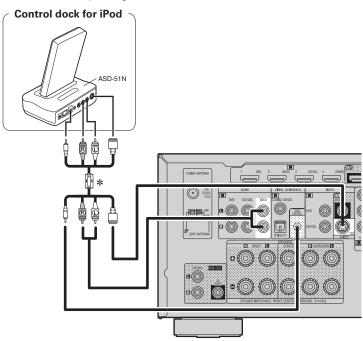
Cables used for connections





Connecting a control dock for iPod

- Connect a control dock for iPod to the unit to enjoy video and music stored on an iPod.
- For a control dock for iPod, use ASD-11R, ASD-3N, ASD-3W, ASD-51N and ASD-51W made by DENON (sold separately).
- For instructions on the control dock for iPod settings, refer to the control dock for iPod's operating instructions.



* Use the AV/Control Cable supplied with the DENON control dock for iPod.

in Set as Necessary

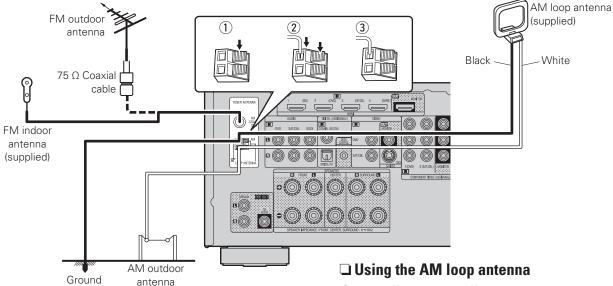
Set this to change the digital input connector to which the input source is assigned.

"Input Assign" (@page 33)

Connecting an antenna

- Connect the FM antenna or AM loop antenna supplied with the unit to enjoy listening to radio broadcasts.
- After connecting the antenna and receiving a broadcast signal ((F) page 20 "Listening to FM/AM broadcasts"), fix the antenna with tape in a position where the noise level becomes minimal.

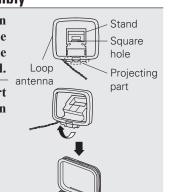
Direction of broadcasting station



□ AM loop antenna assembly

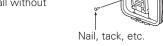
Put the stand section through the bottom of the loop antenna from the rear and bend it forward.

Insert the projecting part into the square hole in the stand.



Suspending on a wall

Suspend directly on a wall without assembling.



Standing alone

Use the procedure shown left to assemble.



NOTE

- Do not connect two FM antennas simultaneously.
- Even if an external AM antenna is used, do not disconnect the AM loop antenna.
- Make sure the AM loop antenna lead terminals do not touch metal parts of the panel
- If the signal has noise interference, connect the ground terminal (GND) to reduce noise.
- If you are unable to receive a good broadcast signal, we recommend installing an outdoor antenna. For details, inquire at the retail store where you purchased the unit.

Playback (Basic operation)

- ☐ Selecting the input source (page 17)
- ☐ Adjusting the master volume (☐ page 17)
- ☐ Turning off the sound temporarily (page 17)
- ☐ Playing a Blu-ray Disc player/DVD player
 (☐ page 17)
- ☐ Playing a portable player (☐ page 17)
- ☐ Playing an iPod® (☞ page 18)
- ☐ Tuning in radio stations (☐ page 20)

Selecting a listening mode (Surround mode)

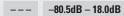
(**P** page 23)

Playback (Advanced operation) (page 29)

Adjusting the master volume

Use **VOL** ▲ ▼ to adjust the volume.

□ When the "Volume Display" setting (♠ page 35) is "Relative" [Adjustable range]



☐ When the "Volume Display" setting (☞ page 35) is "Absolute"

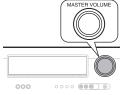
[Adjustable range] 0.0 – 99.0

• The variable range differs according to the input signal and channel level setting.



You can also operate via the main unit. In this case, perform the following operations.

Turn **MASTER VOLUME** to adjust the volume.



Playing a Blu-ray Disc player/DVD player

The following describes the procedure for playing Blu-ray Disc player/DVD player.

Prepare for playback.

- 1 Turn on the power of the TV, subwoofer and player.
- 2 Change the TV input to the input of this unit.
- 3 Load the disc in the player.
- Press POWER ON to turn on power to the unit.
- Press BD or DVD to switch an input source for a player used for playback.





Play the component connected to this unit.

Make the necessary settings on the player (language setting, subtitles setting, etc.) beforehand.

Important information

Before starting playback, make the connections between the different components and the settings on the receiver.

NOTE

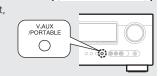
Also refer to the operating instructions of the connected components when playing them.

Selecting the input source

Press the input source select button (DVD, BD, TUNER, DOCK, SAT/CBL, GAME, V.AUX*, TV) to be played back.

The desired input source can be selected directly.

* For operation with the main unit, use **V.AUX/PORTABLE**.



BD TUNER

DVD DOCK

TV GAME

SATICBL VAUX

Turning off the sound temporarily

Press MUTE.





- \bullet The sound is reduced to the level set at "Mute Level" (To page 35).
- To cancel, press **MUTE** again. Muting can also be canceled by adjusting the master volume.

Playing a portable player

The following describes the procedure for playing portable player.

- Connect the portable player to this unit (page 15 "Connecting a portable player").
- **2** Press **POWER ON** to turn on power to the unit.
- Press V.AUX to switch the input source to "V.AUX".



4 '

Play the component connected to this unit.

Playing an iPod®

You can play back both video, photo and audio.

Listening to music on an iPod®

DENON Control dock for iPod usable on this unit

• ASD-11R/ASD-3N/ASD-3W/ASD-51N/ASD-51W

Prepare for playback.

- ① Connect the DENON control dock for iPod to this unit (E) page 16 "Connecting a control dock for iPod").
- (2) Set the iPod® in the DENON control dock for iPod.

Press POWER ON to turn on power to the unit.

? Press **DOCK** to switch the input source to "DOCK".

• If "Browse mode" is selected in step 4, the following screen is displayed on a TV screen.

When ASD-11R is used, iPod information is not displayed on a TV screen. It is displayed on the display of the unit.

When using an ASD-3N, ASD-3W, ASD-51N and ASD-51W



• In "Browse mode", the iPod display is as shown at right.

NOTE

 If the connections screen is not displayed, the iPod may not be properly connected.
 Reconnect it.



 For operating an iPod while viewing on a TV screen, connect the VIDEO MONITOR output connectors on this unit and the VIDEO input connectors on the TV, using a video cable.

4 Press SEARCH and hold it down for 2 seconds or more to select the display mode.

• There are two modes for displaying the contents recorded on the iPod.

Browse mode Display iPod information on the TV screen or display of this unit.

English letters, numbers and certain symbols are displayed.
 Incompatible characters are displayed as "." (period).

Remote mode Display iPod information on the iPod screen.

• "Dock Remote" is displayed on the display of this unit.

Display mode		Browse mode	Remote mode
	Music file	✓	✓
Playable files	Photo file		√ *
IIICS	Video file	✓	√ *
Active buttons	Remote control unit (This unit)	✓	✓
	iPod [®]		✓

* Video may not be output, depending on the combination of ASD-11R, ASD-3N, ASD-3W, ASD-51N or ASD-51W DENON control dock for iPod and iPod

5 Use $\triangle \nabla$ to select the item, then press **ENTER** or \triangleright to select the file to be played.

6 Press ENTER or ▷.

Playback starts.





- To play back compressed audio with extended bass or treble reproduction, we recommend playback in RESTORER mode (1287 page 38). The default setting is "ON".
- In Browse mode, press **STATUS** during playback to check the title name, artist name, and album name.

NOTE

• Press **POWER OFF** and set this unit's power to the standby mode before disconnecting the iPod. Also switch the input source to "DOCK" before disconnecting the iPod.

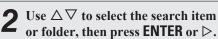


- Depending on the type of iPod and the software version, some functions may not operate.
- Note that DENON will accept no responsibility whatsoever for any problems arising with the data on an iPod when using this unit in conjunction with the iPod.

Viewing videos on an iPod® in the Browse mode

When an iPod equipped with a video function is connected to a DENON ASD-11R, ASD-3N, ASD-3W, ASD-51N and ASD-51W control dock for iPod, image files can be played in the Browse mode.

1 Use $\triangle \nabla$ to select "Videos", then press ENTER or \triangleright .





3 Use $\triangle \nabla$ to select the video file, then press ENTER or \triangleright .

Playback starts.

Playing an iPod®

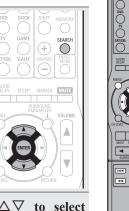
Viewing photos and videos on an iPod[®] in the Remote mode

This unit can play back on a TV screen photos and data stored on an iPod equipped with a slide show or video function.

Press and hold SEARCH to set the Remote mode.

"Dock Remote" is displayed on the

display of this unit.



- **2** Watching the iPod's screen, use $\triangle \nabla$ to select "Photos" or "Videos".
- Depending on the iPod model, it may be necessary to operate the iPod unit directly.
- **3** Press **ENTER** until the image you want to view is displayed.



"TV Out" at the iPod's "Slide show Settings" or "Video Settings" must be set to "On" in order to display the iPod's photo data or videos on the monitor. For details, see the iPod's operating instructions.

NOTE

Video may not be output, depending on the combination of ASD-11R, ASD-3N, ASD-3W, ASD-51N or ASD-51W and iPod.

iPod operation



Operation buttons	Function	
MENU	Amp menu	
$\triangle \nabla \triangleleft \triangleright$	Cursor operation	
ENTER Enter		
SEARCH (Press and hold)	Browse / Remote mode switching	
RETURN	Return	
44 bb	Manual search	
(Press and hold)	(fast-reverse/fast-forward)	
► /II	Playback / Pause	
44 ▶▶	Auto search (cue)	
	Stop	
REPEAT Repeat playback		
RANDOM	Shuffling playback	
RESTORER	RESTORER	
MEMORY	Store memory *	
STATUS	Check of title name/artist name/album name (in Browse mode)	

- Repeat playback (** page 35 "Repeat")
- Shuffling playback (@page 35 "Shuffle")
- *This functions when an ASD-3N, ASD-3W, ASD-51N or ASD-51W is used.

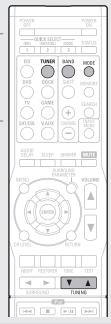
Tuning in radio stations

Listening to FM/AM broadcasts

- **1** Press TUNER to switch the input source to "TUNER".
- **2** Press BAND to select "FM" or "AM".
- FM When listening to an FM broadcast.
- **AM** When listening to an AM broadcast.
- 3 Tune in the desired broadcast station.
- ① To tune in automatically
 (Auto tuning)
 Press MODE to light the "AUTO" indicator

Press **MODE** to light the "AUTO" indicator on the display, then use **TUNING** ▲ or **TUNING** ▼ to select the station you want to hear.

② To tune in manually (Manual tuning) Press MODE to turn off the display's "AUTO" indicator, then use TUNING ▲ or TUNING ▼ to select the station you want to hear.





- If the desired station cannot be tuned in with auto tuning, tune it in manually.
- When tuning in stations manually, press and hold TUNING ▲ or TUNING ▼ to change frequencies continuously.

☐ Presetting radio stations (Manual preset)

Your favorite broadcast stations can be preset so that you can tune them in easily. Up to 56 stations can be preset.

- Stations can be preset automatically at "Auto Preset" (Preset" is performed after performing "Manual Preset", the "Manual Preset" settings will be overwritten.
- **1** Tune in the broadcast station you want to preset.
- **?** Press MEMORY.
- Press SHIFT to select the block (A to G) in which the channel (1 to 8 per a block) is to be preset, then press CHANNEL + or CHANNEL to select the preset number.



- ⚠ Press MEMORY again to complete the setting.
- To preset other stations, repeat steps 1 to 4.

Default settings

Block (A – G) and Channel (1 – 8)	Default Settings
A1 – A8	87.5 / 89.1 / 98.1 / 108.0 / 90.1 / 90.1 / 90.1 / 90.1 MHz
B1 – B8	522 / 603 / 999 / 1404 / 1611 kHz, 90.1 / 90.1 / 90.1 MHz
C1 – C8	90.1 MHz
D1 – D8	90.1 MHz
E1 – E8	90.1 MHz
F1 – F8	90.1 MHz
G1 – G8	90.1 MHz

☐ Listening to preset stations

- **1** Press **SHIFT** to select the memory block (A to G).
- Press CHANNEL + or CHANNEL to select the desired preset channel.



☐ Tuner (FM/AM) operation



-		
Operation buttons	Function	
CHANNEL +, –	Preset channel selection	
MENU	Amp menu	
$\triangle \nabla \triangleleft \triangleright$	Cursor operation	
ENTER	Enter	
RETURN	Return	
BAND	FM/AM switching	
MODE	Switch search modes	
TUNING ▲ ▼	Tuning (up/down)	
SHIFT	Preset channel block selection	
MEMORY	Preset memory registration	

RDS (Radio Data System)

RDS (works only on the FM band) is a broadcasting service which allows a station to send additional information along with the regular radio program signal.

NOTE

The operations described as follows using **SEARCH** will not function in areas in which there are no RDS broadcasts.



CHANNEL

☐ RDS search

Use this function to automatically tune to FM stations that provide the RDS service.

1 Press **TUNER** to switch the input source to "TUNER".





The search for RDS stations begins automatically.

- If no RDS stations are found with the above operation, all the reception bands are searched.
- When a broadcast station is found, that station's name appears on the display.
- If no RDS station is found when all the frequencies have been searched, "NO RDS" is displayed.



If you press **CHANNEL** + or **CHANNEL** – within 5 seconds after the broadcast station name is shown on the display, you can search for a different station.

PTY (Program Type)

PTY identifies the type of RDS program.
The program types and their displays are as follows:

NEWS	News	
AFFAIRS	Current Affairs	
INFO	Information	
SPORT	Sports	
EDUCATE	Education	
DRAMA	Drama	
CULTURE	Culture	
SCIENCE	Science	
VARIED	Varied	
POP M	Pop Music	
ROCK M	Rock Music	
EASY M	Easy Listening	
	Music	
LIGHT M	Light Classical	
CLASSICS	Serious Classical	
OTHER M	Other Music	

WEATHER	Weather	
FINANCE	Finance	
CHILDREN	Children's	
	program	
SOCIAL	Social Affairs	
RELIGION	Religion	
PHONE IN	Phone In	
TRAVEL	Travel	
LEISURE	Leisure	
JAZZ	Jazz Music	
COUNTRY	NTRY Country Music	
NATION M	National Music	
OLDIES	Oldies Music	
FOLK M	Folk Music	
DOCUMENT	Documentary	

□ PTY search

Use this function to find RDS stations broadcasting a designated program type (PTY).

- **1** Press **TUNER** to switch the input source to "TUNER".
- Press SEARCH to select "PTY SEARCH".
- **3** Watching the display, press $\triangle \nabla$ to call out the desired program type.



PTY search begins automatically.



Tuning in radio stations

- If there is no station broadcasting the designated program type with the above operation, all the reception bands are searched.
- The station name is displayed on the display after searching stops.
- If no station broadcasting the designated program type is found when all the frequencies have been searched, "NO PROGRAMME" is displayed.



If you press **CHANNEL +** or **CHANNEL –** within 5 seconds after the broadcast station name is shown on the display, you can search for a different station.

TP (Traffic Program)

TP identifies programs that carry traffic announcements.

This allows you to easily find out the latest traffic conditions in your area before leaving home.

☐ TP search

Use this function to find RDS stations broadcasting traffic programs (TP stations).

- **1** Press **TUNER** to switch the input source to "TUNER".
- Press SEARCH to select "TP SEARCH".
- Press CHANNEL + or CHANNEL -.

TP search begins automatically.



- If no TP station is found with the above operation, all the reception bands are searched.
- The station name is displayed on the display after searching stops.
- If no other TP station is found when all the frequencies have been searched, "NO PROGRAMME" is displayed.



If you press **CHANNEL** + or **CHANNEL** – within 5 seconds after the broadcast station name is shown on the display, you can search for a different station.

RT (Radio Text)

RT allows RDS stations to send text messages that appear on the display.

"RT" appears on the display when radio text data is received.

Press TUNER to switch the input source to "TUNER".

? Press **SEARCH** to select "RT".

- While receiving an RDS broadcast station, the text data broadcast from the station is displayed.
- To turn the display off, press

 \(\rightarrow
 \).
- If no text data is being broadcast, "NO TEXT DATA" is displayed.

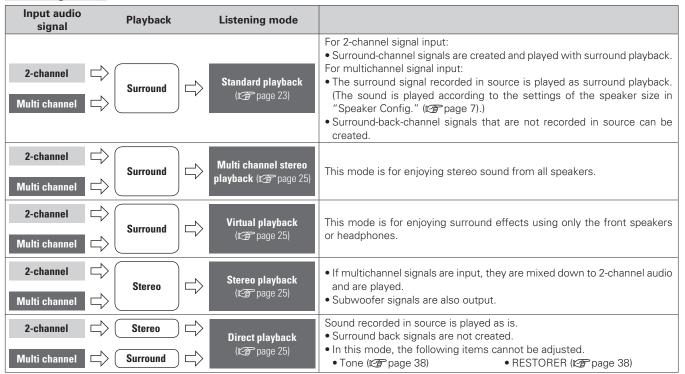


Selecting a listening mode (Surround mode)

This unit can play input audio signals in multi-channel surround mode or in stereo mode.

Select a listening mode suitable for the playback contents (cinema, music, etc.) or according to your liking.

Listening Mode





- Some listening modes cannot be selected, depending on the audio format or number of channels of the input signal. For details, see "Types of input signals, and corresponding surround modes" (P) page 48).
- Adjust the sound field effect with the menu "Surround Parameter" (Parameter and page 36) to enjoy your favorite sound mode.
- Buttons on the remote control unit or main unit can be used for operations.

[Operations with the remote control unit]

Press **SURROUND** ◀ or **SURROUND** ▶ and the modes are switched as shown below.

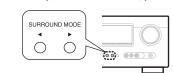
(Operations with the main unit)

Press **SURROUND MODE** ◀ or **SURROUND MODE** ▶ and the modes are switched as shown below.



* The display varies depending on the audio format or the number of channels of input signals.





Standard playback

☐ Surround playback of 2-channel sources

Playing the source (♥ page 17 – 22).

[Operations with the remote control unit]
Press SURROUND ✓ or
SURROUND ➤ to select the surround decoder to play back multichannel sound.

Select the surround mode while viewing the display on the display of this unit.



Operations with the main unit Press STANDARD to select the surround decoder to play back multichannel sound.

 Which decoder can be selected depends on the settings of "Speaker Config." (P page 7).

DOLBY PLIIX * This mode is for 7.1-channel surround playback using the surround back speakers.

• "PLIIx Cinema", "PLIIx Music"or "PLIIx Game" is displayed.

DOLBY PLII

This mode is for 5.1-channel surround playback. Select this mode if no surround back speaker is to be used.

• "PLII Cinema", "PLII Music", "PLII Game" or "Pro Logic" is displayed.

DTS NEO:6

This mode is for 7.1-channel or 5.1-channel surround playback using the surround back speakers.

- "DTS NEO:6 Cinema" or "DTS NEO:6 Music" is displayed.
- *This can be selected when "Speaker Config." "S.B(Pre)" (Propage 7) is not set to "None".

3 Press SURROUND PARAMETER and then press ENTER.





4 Use < ▷ to select the mode according to the content to be played and then press ENTER.

Cinema	This mode is suited for movie sources.
Music	This mode is suited for music sources. More sound
	is sent to the front speakers than in "Cinema" mode.
Game	This mode is suited for games

Pro Logic * This mode is suitable for playback of 2-channel sources recorded with Dolby Pro Logic.

*This can be selected when "Speaker Config." - "S.B(Pre)" (Frage 7) is not set to "None".

Press SURROUND PARAMETER.The menu returns to normal display.

□ Surround playback of multi-channel sources (Dolby Digital, DTS etc.)

1 Playing the source (☞ page 17 – 22).

2 [Operations with the remote control unit]
Press SURROUND ✓ or
SURROUND ➤ to select the surround decoder to play back multichannel sound.

Select the surround mode while viewing the display on the display of this unit.

Operations with the main unit
Press STANDARD to select
the surround decoder to
play back multichannel
sound.



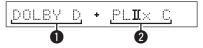
 Which decoder can be selected depends on the input signal, the settings of "Speaker Config." (@ page 7).

Displaying the currently playing surround mode

Input signal	Surround mode	Display
	DOLBY DIGITAL	DOLBY DIGITAL
DOLBY DIGITAL	DOLBY DIGITAL EX	DOLBY DIGITAL EX
(other than 2ch) /	DOLBY DIGITAL + PLIIx	 DOLBY D + PLIIx C
DOLBY DIGITAL EX	CINEMA	DOEDY D & LEHY C
	DOLBY DIGITAL + PLIIx MUSIC	DOLBY D + PLIX M
DOLBY DIGITAL Plus	DOLBY DIGITAL Plus	DOLBY DIGITAL +
DOLBY TrueHD	DOLBY TrueHD	DOLBY TrueHD
	DTS SURROUND	DTS SURROUND
DTC /F 1-L\ /	DTS + PLIIx CINEMA	DTS + PLIX C
DTS (5.1ch) / DTS-ES Discrete 6.1 /	DTS + PLIIx MUSIC	DTS + PLIX M
DTS-ES Discrete 6.1 / DTS-ES Matrix 6.1 / DTS 96/24	DTS + NEO:6	DTS + NEO:6
	DTS ES MTRX6.1 * 1	DTS ES MTRX6.1
	DTS ES DSCRT6.1*2	DTS ES DSCRT6.1
	DTS 96/24*3	DTS 96/24
DTS-HD	DTS-HD HI RES	DTS-HD HI RES
	DTS-HD MSTR	DTS-HD MSTR
	DTS Express	DTS Express
PCM (multi ch)	MULTI CH IN	MULTI CH IN
	MULTI IN + PLIIx CINEMA	MULTI IN +PLIX C
	MULTI IN + PLIIx MUSIC	MULTI IN +PLIX M
	MULTI CH IN 7.1	MULTI CH IN 7.1

- *1 This is displayed when the input signal is "DTS-ES Matrix 6.1" and this unit's "AFDM" (**) page 37) setting is "ON".
- *2 This is displayed when the input signal is "DTS-ES Discrete 6.1".
- *3 This is displayed when the input signal is "DTS 96/24".

(Views on the display)



- 1 Shows a decoder to be used.
- A DOLBY DIGITAL decoder is displayed as "DOLBY D".
- A DOLBY DIGITAL Plus decoder is displayed as "DOLBY DIGITAL +".
- 2 Shows a decoder that creates sound output from the surround back speakers.



For an input signal that can be reproduced in each surround mode, see "Surround modes and surround parameters" (1287 page 46).

Multi channel stereo playback

This mode is for enjoying stereo sound from all speakers.





Multi channel stereo playback begins.



NOTE

When the input signal is Dolby TrueHD, Dolby Digital Plus, DTS-HD or DTS Express, you cannot select multi channel stereo mode.

Virtual playback

This mode is for enjoying surround effects using only the front speakers or headphones.



Press SURROUND or SURROUND ➤ to select "VIRTUAL".

Virtual playback begins.



NOTE

When the input signal is Dolby TrueHD, Dolby Digital Plus, DTS-HD or DTS Express, you cannot select virtual mode.

Stereo playback

This is the mode for playing in stereo. The tone can be adjusted.

- Sound is output from the front left and right speakers and subwoofer.
- If multichannel signals are input, they are mixed down to 2-channel audio and are played.

1 Playing the source (☞ page 17 – 22).

2 Press SURROUND ✓ or SURROUND ► to select "STEREO".

Stereo playback begins.



Direct playback

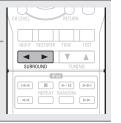
Sound recorded in source is played as is.

- Surround back signals are not created.
- In this mode, the following items cannot be adjusted.
- Tone (** page 38)
- RESTORER (F page 38)

Playing the source (☞ page 17 – 22).

Press SURROUND ✓ or SURROUND ► to select "DIRECT".

Direct playback begins.





Advanced version

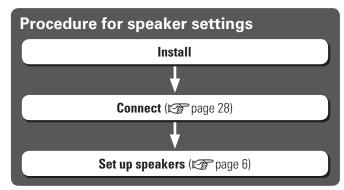
Here, we explain functions and operations that let you make better use of this unit.

- Speaker installation/connection (Other than 5.1-channel) ☞ page 27
- Playback (Advanced operation) page 29
- How to make detailed settings 🎏 page 31

Speaker installation/connection (Other than 5.1-channel)

Here we describe the installation and connection methods for speakers other than 5.1-channel speakers. The speaker setting method is the same as "Simple version (Simple setup guide)" (Fig. page 3).

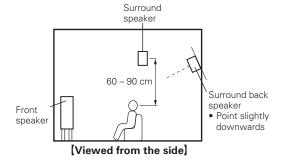
For the installation, connection and setup methods for 5.1-channel speakers, see "Simple version (Simple setup guide)" (@page 3).



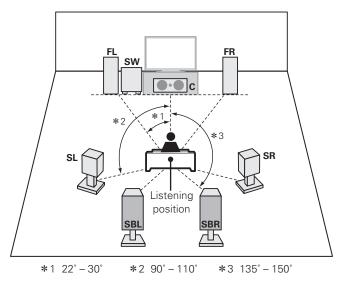
Install



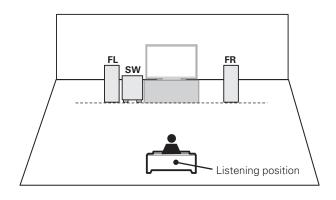
Install the surround back speakers in a position 60 to 90 cm higher than ear level.



When 7.1ch (Surround back speaker) installed



When 2.1ch installed



- FL Front speaker (L)
- FR Front speaker (R)
- **C** Center speaker
- **SW** Subwoofer

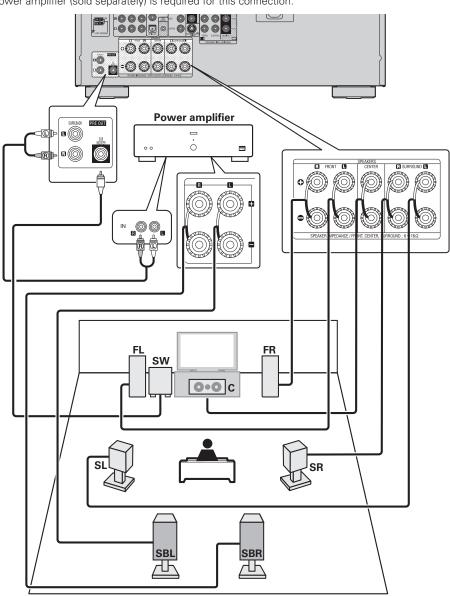
- **SL** Surround speaker (L)
- SR Surround speaker (R)
- SBL Surround back speaker (L)
- SBR Surround back speaker (R)

Connect

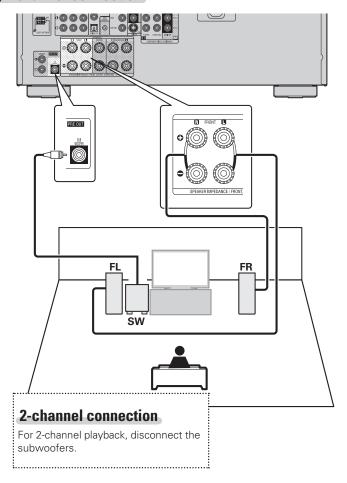
- For the method of connecting 5.1-channel speakers, see page 4.
 For the method of connecting the TV, see page 5.

7.1-channel (Surround back speaker) connection

• A power amplifier (sold separately) is required for this connection.



2.1-channel/2-channel connection



Playback (Advanced operation)

Playback (Basic operation) (** page 17)

Selecting a listening mode (Surround mode)
(*** page 23)

- ☐ Adjusting the volume of the speakers (page 29)
- ☐ Sleep timer function (☐ page 30)
- ☐ Quick select function (☐ page 30)
- ☐ Various memory functions (☐ page 30)

Convenient functions

Adjusting the volume of the speakers

You can adjust the channel level either according to the playback sources or to your taste, as described below.

☐ Adjusting the volume of the different speakers



9 Use $\triangle \nabla$ to select the speaker.

The speaker that can be set switches each time one of the buttons is pressed.

3 Use $\triangleleft \triangleright$ to adjust the volume.

• In the case of a subwoofer, pressing < when it is at "-12 dB" will change the setting to "OFF".



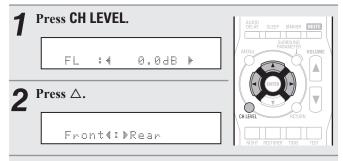
• If no button is operated for about 5 seconds, the display is returned to the normal display.

After registering, the display is returned to the normal display.

 When a headphone jack is inserted, the headphone channel level can be adjusted.

☐ Adjusting the volume of group of speakers (Fader function)

This function lets you adjust (fade) the sound all at once from the front (front speaker / center speaker) or rear (surround speaker / surround back speaker).



3 Use $\triangleleft \triangleright$ to adjust the volume of the speakers. $(\triangleleft : front, \triangleright : rear)$



- If no button is operated for about 5 seconds, the display is returned to the normal display.
- After registering, the display is returned to the normal display.
- The fader function does not affect the subwoofer.
- The fader can be adjusted until the volume of the speaker is adjusted to the lowest value of -12 dB.

Sleep timer function

The power automatically goes into standby once the set time has elapsed.

This is convenient for playing sources while going to sleep.

Press **SLEEP** and display the time you want to set.

The "SLEEP" indicator on the display lights.

• The time switches as shown below each time **SLEEP** is pressed.



OFF
$$\longrightarrow$$
 10 min \longrightarrow 20 \longrightarrow 30 \longrightarrow 40 \longrightarrow 50 \longrightarrow 120 \longleftarrow 110 \longleftarrow 100 \longleftarrow 90 \longleftarrow 80 \longleftarrow 70 \longleftarrow 60 \longrightarrow

To cancel the sleep timer

Press SLEEP to set "OFF".

The "SLEEP" indicator on the display turns off.

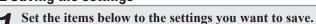


- If no button is operated for about 5 seconds, the display is returned to the normal display.
- After registering, the display is returned to the normal display.
- The sleep timer setting is canceled if this unit's power is set to standby or turned off.

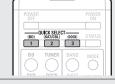
Quick select function

All of the settings in step 1 can be memorized together. By memorizing frequently used settings, you can quickly access and enjoy a playback environment that is consistently the same.

□ Saving the settings



- 1) Input source (Pr page 17)
- 2 Volume (P page 17)
- 3 Surround mode (Prage 23)
- 4) Video Select (Pr page 34)



2 Press and hold the desired QUICK SELECT until "Memory" appears on the display.

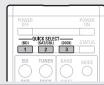
The current settings will be memorized.

[Quick Select Defaults]

	Input Source	Volume
QUICK SELECT 1	BD	–40 dB
QUICK SELECT 2	SAT/CBL	–40 dB
QUICK SELECT 3	DOCK	–40 dB

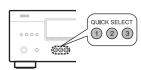
☐ Recalling the settings

Press QUICK SELECT at which the settings you want to call out are saved. The Q1, Q2 or Q3 indicator illuminates on the display.





If **QUICK SELECT** on the main unit is pressed, the same function as with the remote control unit can be obtained.



Various memory functions

☐ Personal memory plus function

This function sets the settings (input mode, surround mode, HDMI output mode, audio delay etc.) last selected for the individual input sources.



The surround parameters, tone settings and the volumes of the different speakers are stored for the individual surround modes.

□ Last function memory

This function stores the settings which were made before going into the standby mode.

When the power is turned back on, the settings are restored.

How to make detailed settings

Menu map

For menu operations, see the following page.

Setting items		Setting items Number Detailed items		Description	
1	Speaker Setup	1-1	Speaker Config.	Select speaker configuration and size (bass reproduction capability).	7
		1-2	Bass Setting	Set subwoofer and LFE signal range playback.	8
		1-3	Distance	Set distance from listening position to speakers.	8
	Once these items are set, there is no need to set them again unless the speaker layout or	1-4	Channel Level	Set the volume of the test tone to be the same when it is output from each speaker.	9
	the connected speakers have been changed.	1-5	Crossover Freq.	Set the maximum frequency of the bass signal output from each channel to the subwoofer.	9
2	Input Setup	2-1	Input Assign	Changes input connector assignment.	33
		2-2	Auto Preset	Uses the auto preset function to program radio stations.	34
	Displayed items of the "Input Setup" menu differs, depending on the selected input source.	2-3	Preset Skip	Sets the preset memories that you do not want to display when tuning.	34
		2-4	Video Select	Makes the video settings.	34
		2-5	Input Mode	Sets the audio input mode and decode mode.	34
		2-6	Source Level	Adjusts the playback level of the audio input.	35
		2-7	Playback Mode	Makes settings for iPod playback.	35
3	Option Setup	3-1	Volume Control	Sets the volume setting.	35
		3-2	Other Setup	Makes various other settings.	36
A-1	Surround Parameter			Adjusts surround sound parameters.	36
A-2	Tone			Adjusts the tonal quality of the sound.	38
A-3	NIGHT MODE			Optimized setting for late-night listening. Compress dynamic range (difference between loud and soft sounds).	38
A-4	RESTORER			Uncompresses compressed sources and apply bass boost for richer sound.	38
A-5	Audio Delay			Compensates for incorrect timing between video and audio.	38

Examples of front display

Below we describe typical examples of displays on the set's display window.

	Front Display	Description
Top menu display	Speaker Setup	 1 The number of the current selected setting menu is displayed. 2 The currently selected item is displayed on the display. Use △∇ to move to the item you want to set.
Display when changing settings	Pront Clarge	 1 The number of the current selected setting menu is displayed. 2 Use △∇ to move to the item you want to set. 3 ♣ is displayed at the sides of item whose setting can be changed. Use △ ▷ to change to the desired setting.
	3 Press ENTER.	4 Press ENTER to set to the mode in which the setting can be made.
	Speaker Config.	
	© Press RETURN. (Speaker Setup)	6 Press RETURN to return to the previous menu.
Display when resetting	Default 2	 The number of the current selected setting menu is displayed. Press ∇ to select "Default", then press ENTER to set.
	Press ENTER.	
	Default? : ◀ No	

Input Setup

Perform settings related to input source playback.

You do not have to change the settings to use the unit. Make settings when needed.

Menu operation

Press MENU.

The menu is displayed on the display of this unit.

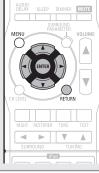
Use $\triangle \nabla$ to select "Input Setup", and then press **ENTER**.

Use $\triangle \nabla$ to select the menu to be set or operated, and then press ENTER.

Use $\triangle \nabla$ to register the settings or use $\triangleleft \triangleright$ to change the settings.

• To return to the previous item, press **RETURN**.

• Exiting the Menu, press **MENU** while the menu is displayed. The menu returns to normal display.



Items that can be set with the "Input Setup" procedure

Input Assign (Page 33) Auto Preset (Propage 34) Preset Skip (page 34) Video Select (P page 34) Input Mode (P page 34) Source Level (r page 35) Playback Mode (P page 35)

Important information

□ About the display of input sources

In this section, the configurable input sources for each item are shown as follows.

TV SAT/CBL GAME V.AUX DOCK TUNER

Input Assign

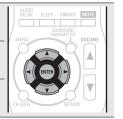
Default settings are underlined.

Input assignments menu operations

Use $\triangle \nabla$ to select the menu you want to set.

Use $\triangleleft \triangleright$ to select the input connector to be assigned.

Press **ENTER** to enter the setting.



NOTE

If all "Digital" assignment of the TV source are set to "None", TV source cannot be selected with the input

source selection.		
Setting items	Se	tting details
Opt (Optical) Set this to change the optical (digital) input connectors assigned to the input sources.	shown below.	out connector is not to be used. ings of the different input sources are a TV SAT/ GAME V.AUX DOCK
BD DVD TV SAT/CBL GAME V.AUX DOCK	Default setting	Opt – – – –
Coax (Coaxial)	OFF : Select when a coaxial inpu	

Set this to change the coaxial (digital) input connectors assigned to the input sources.

Confirm the setting

DVD SAT/CBL **GAME** V.AUX DOCK

 At time of purchase, the settings of the different input sources are as shown below.

Input source	BD	DVD	TV	SAT/ CBL	GAME	V.AUX	DOCK
Default setting	_	-	_	Coax	_	_	_

Setting items Setting details Comp1/Comp2 (Component video) Component Set this to change the **OFF**: Select when a component video input connectors are not to be used. component video input • At time of purchase, the settings of the different input sources are as connectors assigned to the input sources. shown below. SAT/ DVD TV BD Input source BD GAME V.AUX DOCK DVD TV CBL SAT/CBL **GAME** Default V.AUX DOCK Comp1 Comp2 setting Even if a component input connector is assigned to the input source "DOCK", "DOCK" is effective when a control dock for iPod is connected. Default Yes: Reset to the defaults. The "Input Assign" settings No: Do not reset to the defaults. are returned to the default If you select "Default" and press ENTER, the message "Default?" is settings. displayed. Select "Yes" or "No", and then press ENTER.

Auto Preset

Use the auto preset function to program radio stations.

Remote control operation

buttons

Setting items	Setting details
Start	Press ENTER to start "Auto Preset".
Start the auto preset process.	 Press RETURN or MENU to return to the setting menu without "Auto Preset".
TONELL	• If an FM station cannot be preset automatically, select the desired station by tuning it in manually, then preset it manually.

Preset Skip

Default settings are underlined.

Set the preset memory block (from A to G) you do not want to display.

Setting items	Setting details
Block A – Block G	ON : Display the selected preset memory block.
Select a block to be skipped	Skip : Do not display the selected preset memory block.
from among preset blocks	
(from A to G).	
TUNER	

Video Select

Default settings are underlined.

Set the source video.

Setting items	Setting details
Video Select	Source : Play the picture and sound of the input source.
Video of another input	DVD / SAT/CBL / V.AUX / DOCK : Select video input source to view. This
source is played back	can be set for individual input sources.
combined with the playing audio.	NOTE
	It is not possible to select HDMI input signals.

Input Mode

Default settings are underlined.

The input modes available for selection may vary depending on the input source.

Setting items	Setting details
Input Set the audio input modes for the different input sources.	Auto: Automatically detect input signal and perform playback. HDMI: Play only signals from HDMI input. Digital: Play only signals from digital input (OPTICAL/COAXIAL). Analog: Play only signals from analog input. If an input source is "BD", "GAME" or "DOCK", "Digital" can be selected by assigning "Input Assign" (Papage 33) to "Opt" or "Coax" (Selectable items differ depending on the input source.) If an input source is "TU", the setting is fixed to "Digital". If the input source is set to "BD", "TV" or "Game", it cannot be set to "Analog". When digital signals are properly input, the DIG. indicator lights on the display. If the DIG. indicator does not light, check the digital input connector assignment and the connections. Buttons on the remote control unit can be used for operations. Buttons on the remote control unit can be used for operations. Each time INPUT MODE is pressed, the setting is changed as shown below.
	Auto → HDMI → Digital → Analog →



	Input Setup
Setting items	Setting details
Decode Set the decode mode for input source.	Auto: Detect type of digital input signal and decode and play automatically. PCM: Decode and play only PCM input signals. DTS: Decode and play only DTS input signals.
BD DVD TV	• This item can be set for input sources for which "Opt" or "Coax" is

assigned at "Input Assign" (Prage 33).

inputting the corresponding input signal.

• This item can be set for HDMI input sources (BD, DVD, SAT/CBL or

• Normally set this mode to "Auto". Set "PCM" and "DTS" when

Source Level

GAME V.AUX

Default settings are underlined.

- This function corrects the playback level of the selected input source's audio input.
- Make this setting if there are differences in the input volume levels between the different sources.

Setting details

-12dB - +12dB (0dB)



The analog input level and digital input level can be adjusted independently for input sources for which "OPT" or "COAX" is assigned at "Input Assign" (@page 33).

Playback Mode

This item can be set when the input source is "DOCK".

Setting items	Setting details
Repeat	All: All files are played repeatedly.
Make settings for repeat	One: A file being played is played repeatedly.
mode.	OFF : Repeat playback mode is canceled.
Shuffle Make settings for shuffle mode.	 □ When DENON control dock for iPod ASD-11R is connected Songs : All files are played in shuffle playback mode. Albums : Files in the album are played in shuffle playback mode. OFF : Shuffle playback mode is canceled.
	 □ When DENON control dock for iPod ASD-3N, ASD-3W, ASD-51N or ASD-51W is connected ON : Shuffle playback mode is enabled. OFF : Shuffle playback mode is canceled.

Option Setup

Make various option settings.

Volume Control

Default settings are underlined.

Sets the volume setting.

Setting items	Setting details		
Disp. (Volume Display) Set how volume is displayed.	Relative: Display —dB (Min), in the range –80.5 dB – 18 dB. Absolute: Display in the range 0 (Min) – 99. The "Volume Display" setting is applied also to the "Volume Limit" and "Power On Level" display method.		
Limit (Volume Limit) Make a setting for maximum volume.	OFF: Do not set a maximum volume20dB (61) / -10dB (71) / 0dB (81) If "Disp." is set to "Absolute", the value in () is displayed.		
P.On (Power On Level) Define the volume setting that is active when the power is turned on.	Last: Use the memorized setting from the last session(0): Always use the muting on condition when power is turned on80dB - +18dB (1 - 99): The volume is adjusted to the set level.		
Mute (Mute Level) Set the amount of attenuation when muting is on.	Full: The sound is muted entirely. -40dB: The sound is attenuated by 40 dB down. -20dB: The sound is attenuated by 20 dB down.		



Option Setup

Other Setup

Default settings are underlined.

Make various other settings.

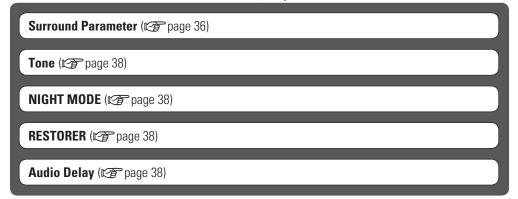
Setting items	Setting details
Audio Out Select HDMI audio output	Amp: Play back through speakers connected to the receiver. TV: Play back through TV connected to the receiver.
device.	If "TV" is selected, only an HDMI audio signal is output from the TV.
Auto Surr. (Auto Surround Mode) Make setting for memorizing surround mode setting for each input signal type.	 ON: Memorize settings. Automatically play with the last used surround mode. OFF: Do not memorize settings. Surround mode does not change according to input signal. The auto surround mode function lets you store in the memory the
7,600	surround mode last used for playing the four types of input signals listed below. ① Analog and PCM 2-channel signals ② Dolby Digital and DTS 2-channel signals ③ Dolby Digital and DTS multi-channel signals ④ LPCM Multi-channel signals
Display Adjust the display brightness of this unit.	Bright: Normal display brightness. Dim: Reduced display brightness. Dark: Very low display brightness. OFF: Turns the display off.
	Buttons on the main unit can be used for operations. Each time DIMMER is pressed, the setting is changed as shown below.
	Bright Dim OFF Dark
Setup Lock Protect settings from	ON : Turn protection on. OFF : Turn protection off.
inadvertent change.	To release "Setup Lock", hold MENU pressed until "Setup Lock 4 ON b" appears on the display.
	When "Setup Lock" is set to "ON", the settings listed below can no longer be changed. Also, "Setup Lock!" is displayed if you attempt to operate related settings.
	Menu operations Channel Level RESTORER

Adjusting the sound field effects

The sound being played in the surround mode can be adjusted to your liking.

The items (parameters) that can be adjusted depend on the signal being input and the currently set surround mode. For details on the adjustable parameters, see "Surround modes and surround parameters" (@page 46).

Items that can be set with the audio adjust procedure



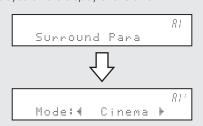
Surround Parameter

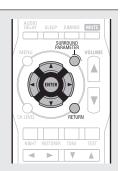
Default settings are underlined.

Adjust surround sound parameters. It may not be possible to set this item depending on the input signal.

Surround parameter menu operations

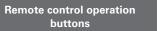






- Use $\triangle \nabla$ to select the mode according to the playback content.
- Use $\triangleleft \triangleright$ to select an item to be set and then press **ENTER** to enter the setting.
- To return to the previous item, press RETURN.
- Exiting the Menu, press SURROUND PARAMETER while the menu is displayed. The menu returns to normal display.

			Adjusting the sound field effects
Setting items	Setting details	Setting items	Setting details
Mode Set the play modes for the different surround modes.	☐ In the PLIIx or PLII mode Cinema: Surround sound mode optimized for movie sources. Music: Surround sound mode optimized for music sources. Game: Surround sound mode optimized for games.	D.Comp Compress dynamic range (difference between loud and soft sounds).	Low / Mid / High : These set the compression level. OFF : Turn dynamic range compression off.
	Pro Logic: Dolby Pro Logic playback mode (PLII mode only). In the DTS NE0:6 mode Cinema: Surround sound mode optimized for movie sources. Music: Surround sound mode optimized for music sources. The "Music" mode is also effective for movie sources including a lot of stereo music.	Compress dynamic range (difference between loud and soft sounds). SB CH OUT Sets the method of generating of the surround	Auto : Automatic dynamic range compression on/off control according to the source. This can be set in the Dolby TrueHD mode. Low / Mid / High : These set the compression level. OFF : Dynamic range compression is always off. For 2-channel sources ON : The surround back channel is used. OFF : No signal is played from the surround back channels.
LFE Adjust the low-frequency effects level (LFE).	-10dB - 0dB For proper playback of the different sources, we recommend setting to the values below. • Dolby Digital sources: "0dB" • DTS movie sources: "0dB" • DTS music sources: "-10dB"	back channel. This can also be set by pressing STANDARD on the main unit.	□ For Multi-channel sources Set the decoding method for the surround back channel. DSCRT ON: Play the surround back signals included in the 7.1-channel source. MTRX ON: Generate and play the surround back signals from the surround channel signals. ES MTRX*1: Generate and play the surround back signals from the
Center Image Assign center channel signal to front left and right channels for wider sound. Panorama Assign front L/R signal also to surround channels for wider sound.	ON : Set. OFF : Do not set.	NOTE If the setting in "Speaker Config." – "S.B(Pre)" (F) page 7) is "None", "SB CH OUT" is not displayed.	surround channel signals of the DTS source. ES DSCRT*2: Play the surround back signals included in the 6.1-channel DTS source. PLIIx CINEMA*3: Generate and play the surround back signals by decoding the signals in the Dolby Pro Logic IIx Cinema mode. PLIIx MUSIC: Generate and play the surround back signals by decoding the signals in the Dolby Pro Logic IIx Music mode. OFF: Do not play the surround back channel.
Dimension Shift sound image center to front or rear to adjust playback balance. Center Width Assign center channel signal to front left and right channels for wider sound.	0 - 6 (3)	, ,	 *1 This can be selected when playing DTS sources. *2 This can be selected when playing DTS sources including a signal to identify discrete 6.1-channel signals. *3 This can be selected when "Speaker Config." – "S.B(Pre)" (Propage 7) is set to other than "None". If the source being played contains a surround back signal, the decoder type is automatically selected by the AFDM function. Set "AFDM" to "OFF" to switch to your preferred decoder.
AFDM (Auto flag detect mode) Detect the source's surround back channel signal and set the optimum surround mode automatically.	 ON: Set. OFF: Do not set. [Example] Playing Dolby Digital software (with EX flag) When "AFDM" is set to "ON", the surround mode is automatically set to the DOLBY D + PLIIx C mode. To play in the DOLBY DIGITAL EX mode, set "AFDM" to "OFF" and 	Subwoofer Turn subwoofer output on and off.	ON: The subwoofer is used. OFF: The subwoofer is not used. NOTE This can be set when the surround mode is "DIRECT" (** page 46, 47), and the "Mode" (** page 8) is "LFE+Main".
automatically.	"Surround Parameter" – "SB CH OUT" to "MTRX ON". Some Dolby Digital EX sources do not include EX flags. If the playback mode does not switch automatically even when "AFDM" is set to "ON", set "Surround Parameter" – "SB CH OUT" to "MTRX ON" or "PLIIx CINEMA".	Default The "Surround Parameter" settings are returned to the default settings.	Yes: Reset to the defaults. No: Do not reset to the defaults.







• If no button is operated for about 5 seconds, the display is returned to the normal display. After registering, the display is returned to the normal display.

Tone

Default settings are underlined.

▼ ▼ A

REPEAT RANDUM

Default settings are underlined.

Adjust the tonal quality of the sound.



ON: Allow tone adjustment (bass, treble). **OFF**: Playback without tone adjustment.

NOTE

The tone cannot be adjusted in the direct mode.

Press **TONE** to select an item to be set, and use $\triangleleft \triangleright$ to select a setting value.

Bass: Adjust low frequency range (bass).

• -6dB - +6dB (0dB)

Treble: Adjust high frequency range (treble).

• -6dB - +6dB (0dB)

"Bass" or "Treble" can be set when "Tone Control" is set to "ON"

NIGHT MODE

Optimized setting for late-night listening.

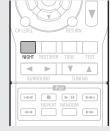
Press NIGHT to select your desired mode.



OFF: Not set.

Low: Set the adjusted value to "Low". Mid: Set the adjusted value to "Middle".

High: Set the adjusted value to "High".



When a Dolby TrueHD signal is output, "DRC" is displayed on the display of the main unit.

The setting mode is also changed as shown below.

- OFF : Not set.
- Low: Set the adjusted value to "Low".
- Mid: Set the adjusted value to "Middle".
- **High**: Set the adjusted value to "High".
- Auto: Automatic dynamic range compression on/off control according to the source.

RESTORER

Compressed audio formats such as MP3, WMA (Windows Media Audio) and MPEG-4 AAC reduce the amount of data by eliminating signal components that are hard for the human ear to hear. The RESTORER function generates the signals eliminated upon compression, restoring the sound to conditions near those of the original sound before compression. It also corrects the sense of volume of the bass to obtain richer sound with compressed audio signals.

Press RESTORER to select "ON" or "OFF".



ON: Use RESTORER.

OFF: Do not use RESTORER.



- This item can be set with analog signals or when a PCM signal (fs = 44.1/48 kHz) is input.
- This cannot be set when the surround mode is set to "DIRECT".
- This item default setting for "iPod" is "ON". All others are set to "OFF"
- When set to "ON", RSTR is displayed.

Audio Delay

Default settings are underlined.

 ∇

While viewing video, manually adjust the time to delay audio output.



Use $\triangleleft \triangleright$ to select the value to be set and then press **ENTER** to enter the setting.

0ms - 200ms

Store "Audio Delay" for each input source.





Information

Information on the main unit's various settings (Status) and on input signals (Audio Input Signal) is shown on the display.

The information displayed changes each time you press **STATUS**.

The information is displayed for several seconds before the display returns to its original condition.

[Items to be checked]

- Input source
- Surround mode
- Input digital terminal
- Input mode
- Decode mode
- Video select
- Dialogue normalization etc.



NOTE

The information displayed differs according to the input source.

Dialogue normalization function

This function is automatically activated when playing Dolby Digital sources.

It automatically corrects the standard signal level for individual program sources.

The correction value can be checked using **STATUS**.

Offset - 4dB

The figure is the corrected value. This cannot be changed.



Information

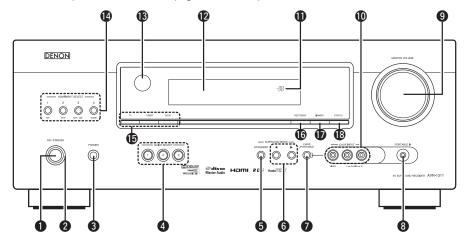
Here, we list various information related to this unit. Please refer to this information as needed.

- Part names and functions page 41
- Other information page 45
- Troubleshooting page 51
- Specifications page 53
- Index 🍲 page 54

Part names and functions

Front panel

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



Power operation button
(ON/STANDBY)(6, 10)
Turns power to this unit on and off (standby).

2 Power indicator(10)

3 Headphones jack (PHONES)

When the headphones are plugged into this jack, audio will no longer be output from the connected speakers or from the PRE OUT connectors.

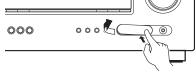
NOTE

To prevent hearing loss, do not raise the volume level excessively when using headphones.

4 QUICK SELECT buttons(30)
5 STANDARD button (23, 24, 37)
6 SURROUND MODE buttons (23, 53)
7 V.AUX/PORTABLE button (17)
8 PORTABLE jack (15)
MASTER VOLUME control knob(17)

1 V.AUX INPUT connectors(15)

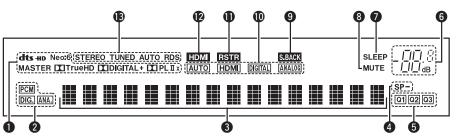
Remove the cap covering the connectors when you want to use them.



Master volume indicator

(,
(44)
(17)
(17, 18, 20)
(38)
(36)
(18, 39)

Display



Decoder indicators

These light when the respective decoders are operating.

2 Input signal indicators

3 Information display

The input source name, surround mode, setting values and other information are displayed here.

4 Front speaker indicator

This lights when audio signals are being output from the speakers.

5 QUICK SELECT indicators

The indicator corresponding to the memory for which Quick Select function is set, lights ("Quick select function" (@page 30)).

6 Master volume indicator

When performing setting operations, displays the menu number.

Sleep timer indicator

This lights when the sleep mode is selected (FF page 30).

8 MUTE indicator

This lights when the mute mode is selected (@page 17).

9 Surround back indicator

This lights when audio signals are being output from the surround back speakers (1267 page 7).

nput mode indicators

Set the audio input modes for the different input sources (12 page 34).

I RESTORER indicator

This lights when the RESTORER mode is selected (Page page 38).

P HDMI indicator

This lights when playing using HDMI connections.

13 Tuner reception mode indicators

These light according to the reception conditions when the input source is set to "TUNER".

STEREO: In the FM mode, this lights when receiving analog stereo broadcasts.

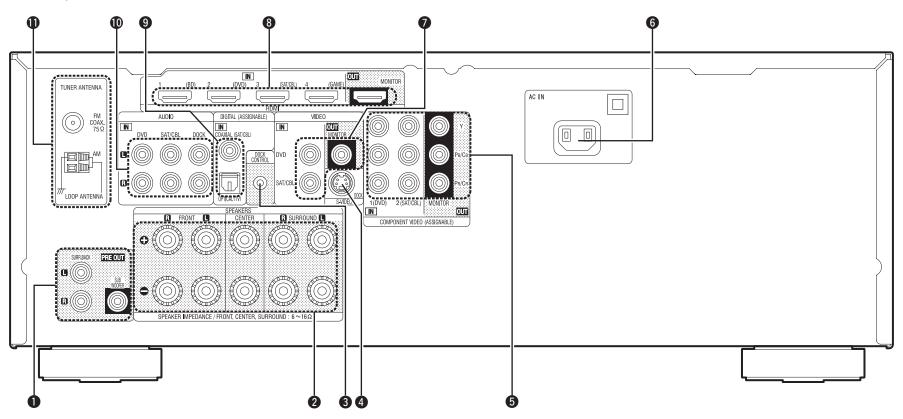
TUNED: This lights when the broadcast is properly tuned in.

AUTO: This lights when in the auto tuning mode.

RDS: This light when receiving RDS broadcasts.

Rear panel

See the page indicated in parentheses ().



PRE OUT connectors	(5, 28)
2 Speaker terminals	(5, 28)
3 DOCK CONTROL jack	(16)
4 S-VIDEO connector	(16)
5 COMPONENT VIDEO connectors	. (13, 14)
6 AC inlet (AC IN)	(5)

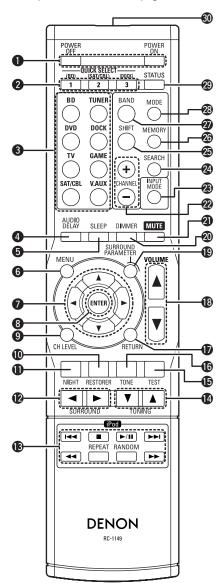
7 VIDEO connectors
8 HDMI connectors (12)
9 Digital audio connectors (13, 14)
• Analog audio connectors (14, 16)
1 FM/AM antenna terminals(16)

NOTE

Do not touch the inner pins of the connectors on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

Remote control unit

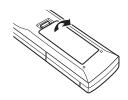
For buttons not explained here, see the page indicated in parentheses ().



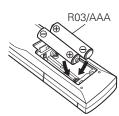
Power buttons (POWER ON / OFF)	(6, 10
QUICK SELECT buttons	(30
3 Input source select buttons	(17, 18, 20
AUDIO DELAY button	(38
Sleep timer button (SLEEP)	(30
6 MENU button	(6, 9, 33, 36
7 Cursor buttons ($\triangle \nabla \triangleleft \triangleright$)(6 –	9, 18, 29, 32 – 38
3 ENTER button	(6 – 9, 18, 32 – 38
Channel level button (CH LEVEL)	(29
RESTORER button	(38
NIGHT button	(38
SURROUND buttons (◀►)······	(23 – 25
iPod system buttons	(18
 Skip buttons (I◄◄, ►►I) Play/Pause button (►/II) Stop button (■) Search buttons (◄◄, ►►) Repeat playback button (REPEAT) Random playback button (RANDOM) 	
TUNING buttons (▲ ▼)	(20
TEST button	(S
TONE button	(38
RETURN button	(6, 32 – 34, 36
Master volume control buttons (VOLUME	▼) (17
SURROUND PARAMETER button	(24, 36
DIMMER button	(36
Muting button (MUTE) ······	(17
Channel buttons (CHANNEL +, -) ······	(20
3 INPUT MODE button	(34
SEARCH button	(18, 19
SHIFT button	
MEMORY button	
BAND button	
MODE button	·
STATUS button	
Bemote control signal transmitter	

Inserting the batteries

① Remove the rear lid in the direction of the arrow and remove it.



 Load the two batteries properly as indicated by the marks in the battery compartment.



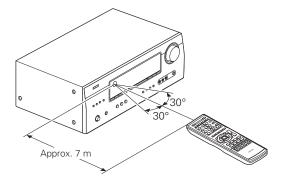
3 Put the rear cover back on.

NOTE

- Insert the specified batteries in the remote control unit.
- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated close to the unit. (The supplied batteries are only for verifying operation.)
- When inserting the batteries, be sure to do so in the proper direction, following the ⊕ and ⊖ marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
- Do not use a new battery together with an old one.
- Do not use two different types of batteries.
- Do not attempt to charge dry batteries.
- Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- Do not keep the battery in a place exposed to direct sunlight or in places with extremely high temperatures, such as near a heater.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- Remove the batteries from the remote control unit if it will not be in use for long periods.
- Used batteries should be disposed of in accordance with the local regulations regarding battery disposal.

Operating range of the remote control unit

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



NOTE

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

Other information

- ☐ Trademark information (☞ page 45)
- ☐ Surround (🎏 page 46)
- ☐ Explanation of terms (☐ page 50)

Trademark information

This product uses the following technologies:

TRUE TO LOGIC IIX	Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.
dts-нр Master Audio	Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS and the Symbol are registered trademarks, & DTS-HD, DTS-HD Master Audio, and the DTS logos are trademarks of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.
нәті	HDMI, the HDMI Logo and High- Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

Surround

This unit is equipped with a digital signal processing circuit that lets you play program sources in the surround mode to achieve the same sense of presence as in a movie theater.

Surround modes and surround parameters

This table shows the speakers that can be used in each surround mode and the surround parameters adjustable in each surround mode.

Symbols in the table

- O This indicates the audio output channels or surround parameters that can be set.
- This indicates the audio output channels. The output channels depend on the settings of "Speaker Config." (page 7).

			Channel output		Surround Parameter (P page 36)							
Surround mode (P page 23)	Front L/R	Front L/R Center Surrou		Surround Back L/R	Subwoofer	Mode (© page 37)	D. Comp ★ 3 (© page 37)	DRC * 4 (© page 37)	LFE * 5 (© page 37)			
DIRECT (2channel)	0				⊚ * 2		0	0				
DIRECT (Multi-channel)	0	0	0	⊚ * 1	0		0	0	0			
STEREO .	0				0		0	0	0			
MULTI CH IN	0	0	0	0	0				0			
DOLBY PRO LOGIC IIx	0	0	0	0	0	0	0	0				
DOLBY PRO LOGIC II	0	0	0		0	0	0	0				
DTS NEO:6	0	0	0	0	0	0	0	0				
DOLBY DIGITAL	0	0	0	0	0		0		0			
DOLBY DIGITAL Plus	0	0	0	0	0		0		0			
DOLBY TrueHD	0	0	0	0	0				0			
DTS SURROUND	0	0	0	0	0		0		0			
DTS 96/24	0	0	0	0	0		0		0			
DTS-HD	0	0	0	0	0		0		0			
DTS Express	0	0	0	0	0		0		0			
MULTI CH STEREO	0	0	0	0	0		0		0			
VIRTUAL	0				⊚ * 2		0		0			

- *1 A signal for each channel contained in an input signal is output as audio.
- *2 Only when "Mode" is set to "LFE+Main" (@page 8), sound is output from the subwoofer.
- *3 This item can be selected when a Dolby Digital or DTS signal is played.
- *4 This item can be selected when a Dolby TrueHD signal is played.
- *5 This item can be selected when a Dolby Digital or DTS signal or DVD-Audio is played.

									Surround
			Sur	round Parameter (🕼 page	36)				
Surround mode (P page 23)	AEDA4 44 C (2000	C D1-/ 07)	C. I	PR	O LOGIC II/IIx Music mode	only	NEO:6 Music mode only	Tone (reprage 38)	RESTORER * 7 (P page 38)
	AFDM ★ 6 (© page 37)	S.Back (🖙 page 37)	Subwoofer (P page 37)	Panorama (🖙 page 37)	Dimension (r page 37)	CenterWidth(r page 37)	Center Image (1287 page 37)		(Kg page 30)
DIRECT (2 channel)			O*2						
DIRECT (Multi-channel)									
STEREO								0	0
MULTI CH IN	0	0						0	
DOLBY PRO LOGIC IIx		0		0	0	0		0	0
DOLBY PRO LOGIC II		0		0	0	0		0	0
DTS NEO:6		0					0	0	0
DOLBY DIGITAL	0	0						0	
DOLBY DIGITAL Plus	0	0						0	
DOLBY TrueHD	0	0							
DTS SURROUND	0	0						0	
DTS 96/24	0	0						0	
DTS-HD	0	0							
DTS Express	0	0						0	
MULTI CH STEREO		0						0	0
VIRTUAL								0	0

^{*2} Only when "Mode" is set to "LFE+Main" (**) page 8), sound is output from the subwoofer.
*6 This item can be selected when a Dolby Digital or DTS or DVD-Audio signal is played.
*7 This item can be set when the input signal is analog, PCM 48 kHz or 44.1 kHz.

☐ Types of input signals, and corresponding surround modes

This table shows the input signal that can be played in each surround mode. Check the audio signal of the input source then select the surround mode.

Symbols in the table

- This indicates the default surround mode.
- O This indicates the selectable surround mode.

			Input signal types and formats															
			PCM DTS-HD			S-HD	DTS					D0	LBY		[OOLBY DIGITAL	L	
Surround mode (1287 page 23)	NOTE	ANALOG	LINEAR PCM (multi ch)	LINEAR PCM (2ch)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)
DTS SURROUND																		
DTS-HD MSTR					•													
DTS-HD HI RES																		
DTS ES DSCRT6.1	*							• 0										
DTS ES MTRX6.1	*																	
DTS SURROUND								0	0									
DTS 96/24																		
DTS + PLIIx CINEMA	*							0	0	0	0							
DTS + PLIIx MUSIC	*							0	0	0	0							
DTS EXPRESS																		
DTS + NEO:6	*								0	0	0							
DTS NEO:6 CINEMA		0		0														0
DTS NEO:6 MUSIC		0		0														0
DOLBY SURROUND																		
DOLBY TrueHD												•						
DOLBY DIGITAL+																		
DOLBY DIGITAL EX	*													0	0	0	0	
DOLBY DIGITAL														0				
DOLBY (D) +PLIIx CINEMA	*													• 0	0	0	0	
DOLBY (D) +PLIIx MUSIC	*													0	0	0	0	
DOLBY PRO LOGIC IIx CINEMA	*	0		0														0
DOLBY PRO LOGIC IIx MUSIC	*	0		0														
DOLBY PRO LOGIC IIx GAME	*	0		0														0
DOLBY PRO LOGIC II CINEMA		0		0														0
DOLBY PRO LOGIC II MUSIC		0		0														0
DOLBY PRO LOGIC II GAME		0		0														0
DOLBY PRO LOGIC		0		0														

^{*} If "Speaker Config." - "S.B(Pre)" (@page 7) is set to "None", this surround mode cannot be selected.

																	·	ourrounu
									Input sig	nal types and	formats							
			P	CM	DTS	S-HD			DTS	71		DO	LBY			DOLBY DIGITAL	L	
Surround mode (P page 23)	NOTE	ANALOG	LINEAR PCM (multi ch)	LINEAR PCM (2ch)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)
MULTI CH IN																		
MULTI CH IN			•															
MULTI CH IN + PLIIx CINEMA	*		0															
MULTI CH IN + PLIIx MUSIC	*		0														1	
MULTI CH IN 7.1			● ◎ (7.1)															
DIRECT																		
DIRECT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DSP SIMULATION																		
MULTI CH STEREO	1	0	0	0				0	0	0	0			0	0	0	0	0
VIRTUAL		0	0	0				0	0	0	0			0	0	0	0	0
STEREO																		
STEREO		•	0	•	0	0	0	0	0	0	0	0	0	0	0	0	0	0

^{*} If "Speaker Config." – "S.B(Pre)" (@page 7) is set to "None", this surround mode cannot be selected.

Explanation of terms

Α

Adobe RGB color / Adobe YCC601 color

Like x.v.Color, each of these color spaces defines a palette of available colors that is larger than the traditional RGB color model.

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.

Dolby Digital

Dolby Digital is a multi-channel digital signal format developed by Dolby Laboratories.

A total of 5.1 channels are played: 3 front channels ("FL", "FR" and "C"), 2 surround channels ("SL" and "SR") and the "LFE" channel for low frequencies.

Because of this, there is no crosstalk between channels and a realistic sound field with a "three-dimensional" feeling (sense of distance, movement and positioning) is achieved.

A realistic, powerful sense of presence is achieved when playing movie sources in AV rooms as well.

Dolby Digital EX

Dolby Digital EX is a 6.1-channel surround format proposed by Dolby Laboratories that allows users to enjoy in their homes the "DOLBY DIGITAL SURROUND EX" audio format jointly developed by Dolby Laboratories and Lucas Films.

The 6.1 channels of sound, including surround back channels, provide improved sound positioning and expression of space.

Dolby Digital Plus

Dolby Digital Plus is an improved Dolby Digital signal format that is compatible with up to 7.1 channels of discrete digital sound and also improves sound quality thanks to extra data bit rate performance. It is upwardly compatible with conventional Dolby Digital, so it offers greater flexibility in response to the source signal and the conditions of the playback equipment.

Dolby TrueHD

Dolby TrueHD is a high definition audio technology developed by Dolby Laboratories, using lossless coding technology to faithfully reproduce the sound of the studio master.

This format provides the facility to support up to 8 audio channels with a sampling frequency of

96kHz/24bit resolution and up to 6 audio channels with a sampling frequency of 192kHz/24bit resolution. Dolby TrueHD is adopted for applications that put very high importance on sound quality.

Dolby Pro Logic II

Dolby Pro Logic $I\!I$ is a matrix decoding technology developed by Dolby Laboratories.

Regular music such as that on CDs is encoded into 5 channels to achieve an excellent surround effect. The surround channel signals are converted into stereo and full band signals (with a frequency response of 20 Hz to 20 kHz or greater) to create a "three-dimensional" sound image offering a rich sense of presence for all stereo sources.

Dolby Pro Logic ∏x

Dolby Pro Logic IIx is a further improved version of the Dolby Pro Logic II matrix decoding technology. Audio signals recorded in 2 channels are decoded to achieve a natural sound with up to 7.1 channels. There are three modes: "Music" suited for playing music, "Cinema" suited for playing movies, and "Game" which is optimized for playing games.

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 96/24

DTS 96/24 is a digital audio format enabling high sound quality playback in 5.1 channels with a sampling frequency of 96 kHz and 24 bit quantization on DVD-Video.

DTS Digital Surround

DTS Digital Surround is the standard digital surround format of DTS, Inc., compatible with a sampling frequency of 44.1 or 48 kHz and up to 5.1 channels of digital discrete surround sound.

DTS-ES™ Discrete 6.1

DTS-ES™ Discrete 6.1 is a 6.1-channel discrete digital audio format adding a surround back (SB) channel to the DTS digital surround sound.

Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

DTS-ES™ Matrix 6.1

DTS-ES™ Matrix 6.1 is a 6.1-channel discrete digital audio format inserting a surround back (SB) channel to the DTS digital surround sound through matrix encoding. Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

DTS Express

DTS Express is an audio format supporting low bit rates (max. 5.1 channels, 24 to 256 kbps).

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.

DTS-HD High Resolution Audio

DTS-HD High Resolution Audio is an improved version of the conventional DTS, DTS-ES and DTS 96/24 signals formats, compatible with sampling frequencies of 96 or 48 kHz and up to 7.1 channels of discrete digital sound. High data bit rate performance provides high quality sound. This format is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

DTS-HD Master Audio

DTS-HD Master Audio is a lossless audio format created by Digital Theater System (DTS). This format provides the facility to support up to 8 audio channels with a sampling frequency of 96kHz/24bit resolution and up to 6 audio channels with a sampling frequency of 192kHz/24bit resolution. It is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

DTS NEO:6™ Surround

DTS NEO:6TM is a matrix decoding technology for achieving 6.1-channel surround playback with 2-channel sources. It includes "DTS NEO:6 Cinema" suited for playing movies and "DTS NEO:6 Music" suited for playing music.

Dynamic range

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

H

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.

LFE

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 20 Hz to 120 Hz deep bass.

M

MP3 (MPEG Audio Layer-3)

This is an internationally standardized audio data compression scheme, using the "MPEG-1" video compression standard. It compresses the data volume to about one eleventh its original size while maintaining sound quality equivalent to a music CD.

MPEG (Moving Picture Experts Group), MPEG-2, MPEG-4

These are the names for digital compression format standards used for the encoding of video and audio. Video standards include "MPEG-1 Video", "MPEG-2 Video", "MPEG-4 Visual", "MPEG-4 AVC". Audio standards include "MPEG-1 Audio", "MPEG-2 Audio", "MPEG-4 AAC".

Р

Protection Circuit

This is a function to prevent damage to components within the power supply when an abnormality such as an overload, excess voltage occurs or temperature for any reason.

In this unit, the power indicator blinks and the unit enters standby mode when an abnormality occurs.

S

Sampling frequency

Sampling involves taking a reading of a sound wave (analog signal) at regular intervals and expressing the height of the wave at each reading in digitized format (producing a digital signal).

Explanation of terms

The number of readings taken in one second is called the "sampling frequency". The larger the value, the closer the reproduced sound is to the original.

Speaker impedance

This is an AC resistance value, indicated in $\boldsymbol{\Omega}$ (ohms). Greater power can be obtained with this value smaller.

sYCC601 color

Like x.v.Color, each of these color spaces defines a palette of available colors that is larger than the traditional RGB color model.



WMA (Windows Media Audio)

This is audio compression technology developed by Microsoft Corporation.

WMA data can be encoded using Windows Media[®] Player Ver.7, 7.1, Windows Media[®] Player for Windows[®] XP and Windows Media[®] Player 9 Series.

To encode WMA files, only use applications authorized by Microsoft Corporation. If you use an unauthorized application, the file may not work properly.



x.v.Color

This function lets HDTVs display colors more accurately. It enables display with natural, vivid colors. "x.v.Color" is a Sony registered trademark.

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.

[General]

Symptom	Cause/Solution	Page
Power does not turn on.	Check whether the power plug is correctly inserted into the power outlet.	5
	 The protection circuit is active. Disconnect the power plug from the electric outlet, wait 5 to 10 seconds and then insert it back into the outlet. 	4, 50
Display is off.	• Set "Display" on the menu to something other than "OFF".	36
The power indicator is blinking red in intervals of	The temperature inside the unit has risen. Please turn off power once, and re-apply the power after the temperature has fallen sufficiently.	_
approximately 2 seconds.	Please re-install this unit in a place having good ventilation.	-
The power indicator	Please use speakers which have the specified impedance.	4
is blinking red in intervals of approximately 0.5 seconds.	The speaker cable has shorted (is touching). Firmly twist the core wire in the speaker cable, and then re-connect it to the speaker terminal.	4
After turning on the power, the power indicator is blinking red in intervals of approximately 0.5 seconds.	This unit amplifier circuit has failed. Turn off the power and please contact the DENON service adviser.	-
Set does not operate properly.	Reset the microprocessor.	53

[Video]

Symptom	Cause/Solution	Page
No picture appears.	Check the TV connection.	5
	Set the TV input correctly.	6

[Audio]

[Audio]			
Symptom	Cause/Solution	Page	
Audio is not output.	Check the connections for all devices. Check the speaker connections. Check whether the audio device power is turned on.	5, 12 – 16 5, 28 6	
	Adjust the master volume.	17	
	Cancel the mute mode.	17	
	Select a suitable input source.	17	
	Select a suitable input mode.	34	
	Disconnect the headphones. No sound is output from the speakers or the PRE OUT connectors when headphones are connected.	41	
No sound is produced from surround speaker.	Check if the surround speakers are connected to the SURROUND terminals.	_	
No sound is produced from	Set "Speaker Config." – "S.B(Pre)" on the menu to something other than "None".	7	
surround back speaker.	• Set "Surround Parameter" – "SB CH OUT" on the menu to something other than "OFF".	37	
	• Set the surround mode to something other than "STEREO".	23	
No sound is	Check the subwoofer connections.	5, 28	
produced from	• Turn on the subwoofer's power.	6	
subwoofer.	• Set "Speaker Config." - "SW" on the menu to "Yes".	7	
	 If "Front" and "Center" for "Speaker Config." are set to "Large", and "Mode" is set to "LFE", no sound may be output from the subwoofers, depending on the input signal or selected surround mode. 	7, 8	
DTS sound is not output.	• Set "Decode" on the menu to "Auto" or "DTS".	35	
Dolby TrueHD, DTS-HD, Dolby Digital Plus audio is not output.	Make HDMI connections.	12	

[HDMI]

Symptom	Cause/Solution	Page
No audio is output with HDMI connection.	Check the connection of the HDMI connectors. When outputting HDMI audio from the speakers, set "Audio Out" on the menu to "Amp". When outputting HDMI audio from a TV, set "Audio Out" on the menu to "TV".	12 36 36
No video is output with HDMI connection.	Check the connection of the HDMI connectors. Set the input source to match the connected HDMI connector. Check whether the TV is compatible with copyright protection (HDCP). If connected to a device not compatible with HDCP, video will not be output correctly.	12 12, 17 12

[Radio]

Symptom	Cause/Solution	Page
Reception fails, or	Change the antenna orientation or position.	16
there is a lot of noise	Separate the AM loop antenna from the unit.	16
or distortion.	Use an FM outdoor antenna.	16
	Separate the antenna from other connection cables.	16

[iPod]

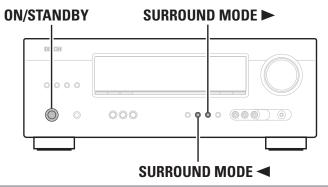
•		
Symptom	Cause/Solution	Page
iPod cannot be	Check the iPod connections.	16
played.	Plug the control dock for iPod's AC adapter into a power outlet.	-
	Switch the input source to "DOCK".	17
"Connection Error" is displayed.	Unable to communicate properly. Turn off the power to this unit, disconnect the iPod and then reconnect it.	_
"Not Support" is displayed.	• The iPod connected to the unit is not compatible. Please make sure the iPod you are connecting is compatible.	-
	• The software version of the connected iPod is an old one. Please update to the latest version.	_
"Connection Error" is displayed.	• The iPod is not responding. Turn off the power to this unit, disconnect the iPod and then reconnect it.	-

[Remote control unit]

Symptom	Cause/Solution	Page
The set cannot be	Batteries are worn out. Replace with new batteries.	44
operated with the remote control unit.	Operate the remote control unit within a distance of about 7 m from this unit and at an angle of within 30°.	44
	Remove any obstacle between this unit and the remote control unit.	44
 O marks. The set's remote control sensor is example sunlight, inverter type fluorescent but 	• Insert the batteries in the proper direction, checking the \oplus and \ominus marks.	44
	The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.). Move the set to a place in which the remote control sensor will not be exposed to strong light.	44

Resetting the microprocessor

Perform this procedure if the display is abnormal or if operations cannot be performed. When the microprocessor is reset, all the settings are reset to their default values.



- **1** Turn off the power using **ON/STANDBY**.
- 2 Press ON/STANDBY while simultaneously pressing SURROUND MODE ■ and SURROUND MODE ▶.
- Once the display starts flashing at intervals of about 1 second, release the two buttons.



If in step 3 the display does not flash at intervals of about 1 second, start over from step 1.

Specifications

Audio section

 Power amplifier Rated output:

Front:

75 W + 75 W (8 $\Omega,$ 20 Hz – 20 kHz with 0.08 % T.H.D.) 110 W + 110 W (6 $\Omega,$ 1 kHz with 0.7 % T.H.D.)

Center:

75 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.) 110 W (6 Ω. 1 kHz with 0.7 % T.H.D.)

Surround:

 $6 - 16 \Omega$

75 W + 75 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.)

110 W + 110 W (6 Ω, 1 kHz with 0.7 % T.H.D.)

Output connectors:

Analog

Input sensitivity/Input impedance: 200 mV/47 k Ω

Frequency response: 10 Hz – 100 kHz — +1, –3 dB (DIRECT mode) **S/N:** 98 dB (IHF–A weighted, DIRECT mode)

■ Video section

Standard video connectors

Input/output level and impedance: 1 Vp-p, 75 Ω

Frequency response: 5 Hz - 10 MHz - +1, -3 dB

• Color component video connector Input/output level and impedance:

Y (brightness) signal — 1 Vp-p, 75 Ω

PB / CB signal — 0.7 Vp-p, 75 Ω PR / CR signal — 0.7 Vp-p, 75 Ω

Frequency response: 5 Hz – 60 MHz — +0, –3 dB

☐ Tuner section [FM] [AM]

(Note: μV at 75 Ω , 0 dBf = 1 x 10⁻¹⁵ W)

18 μV

Receiving Range: 87.5 MHz – 108.0 MHz 522 kHz – 1611 kHz

Usable Sensitivity: 1.2 µV (12.8 dBf)

50 dB Quieting Sensitivity: MONO 2.8 μV (20.2 dBf)

S/N (IHF-A): MONO 70 dB STEREO 67 dB

Total harmonic Distortion (at 1 kHz): MONO 0.7 % STEREO 1.0 %

□ General

Power supply: AC 230 V, 50 Hz

Power consumption: 330 W

Less than 0.5 W (Standby)

Maximum external dimensions: 435 (W) x 166 (H) x 381 (D) mm

Weight: 9.2 kg

☐ Remote Control Unit (RC-1149)

Batteries:R03/AAA Type (two batteries)Maximum external dimensions: $50 \text{ (W)} \times 211 \text{ (H)} \times 22 \text{ (D)} \text{ mm}$

Weight: 110 g (including batteries)

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

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