

DENON

AV SURROUND RECEIVER

AVR-1509

Owner's Manual

Bedienungsanleitung

Manuel de l'Utilisateur

Manuale delle istruzioni

Manual del usuario

Gebruiksaanwijzing

Bruksanvisning

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.

DECLARATION OF CONFORMITY

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

ÜBEREINSTIMMUNGSERKLÄRUNG

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

DECLARATION DE CONFORMITE

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

DICHIARAZIONE DI CONFORMITÀ

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

DECLARACIÓN DE CONFORMIDAD

Declaramos bajo nuestra exclusiva responsabilidad que este producto al que hace referencia esta declaración, está conforme con los siguientes estándares: EN60065, EN55013, EN55020, EN61000-3-2 y EN61000-3-3. Siguiendo las provisiones de las Directivas 2006/95/EC y 2004/108/EC.

EENVORMIGHEIDSVERKLARING

Wij verklaren uitsluitend op onze verantwoordelijkheid dat dit produkt, waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende normen: EN60065, EN55013, EN55020, EN61000-3-2 en EN61000-3-3. Volgens de bepalingen van de Richtlijnen 2006/95/EC en 2004/108/EC.

ÖVERENSSTÄMMELSESINTYG

Härmed intygas helt på eget ansvar att denna produkt, vilken detta intyg avser, uppfyller följande standarder: EN60065, EN55013, EN55020, EN61000-3-2 och EN61000-3-3. Enligt stadgarna i direktiv 2006/95/EC och 2004/108/EC.

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

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.

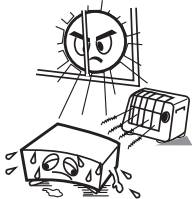
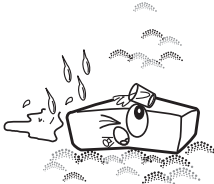
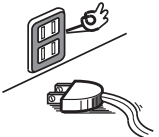
WAARSCHUWING:

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.

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

 • Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack. • Vermeiden Sie hohe Temperaturen. Beachten Sie, dass eine ausreichende Belüftung gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird. • Eviter des températures élevées. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. • Evitate di esporre l'unità a temperature elevate. Assicuratevi che vi sia un'adeguata dispersione del calore quando installate l'unità in un mobile per componenti audio. • Evite altas temperaturas. Permite la suficiente dispersión del calor cuando está instalado en la consola. • Vermijd hoge temperaturen. Zorg er bij installatie in een audiorack voor, dat de door het toestel geproduceerde warmte goed kan worden afgevoerd. • Undvik höga temperaturer. Se till att det finns möjlighet till god värmeavledning vid montering i ett rack.	 • Keep the unit free from moisture, water, and dust. • Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern. • Protéger l'appareil contre l'humidité, l'eau et la poussière. • Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere. • Mantenga el equipo libre de humedad, agua y polvo. • Laat geen vochtigheid, water of stof in het apparaat binnendringen. • Utsätt inte apparaten för fukt, vatten och damm.	 • Do not let foreign objects into the unit. • Lassen Sie keine fremden Gegenstände in das Gerät kommen. • Ne pas laisser des objets étrangers dans l'appareil. • Non inserite corpi estranei all'interno dell'unità. • No deje objetos extraños dentro del equipo. • Laat geen vreemde voorwerpen in dit apparaat vallen. • Se till att främmande föremål inte tränger in i apparaten.	CAUTION: • The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc. • No naked flame sources, such as lighted candles, should be placed on the unit. • Observe and follow local regulations regarding battery disposal. • Do not expose the unit to dripping or splashing fluids. • Do not place objects filled with liquids, such as vases, on the unit. ACHTUNG: • Die Belüftung sollte auf keinen Fall durch das Abdecken der Belüftungsöffnungen durch Gegenstände wie beispielsweise Zeitungen, Tischtücher, Vorhänge o. Ä. behindert werden. • Auf dem Gerät sollten keinerlei direkte Feuerquellen wie beispielsweise angezündete Kerzen aufgestellt werden. • Bitte beachten Sie bei der Entsorgung der Batterien die örtlich geltenden Umweltbestimmungen. • Das Gerät sollte keiner tropfenden oder spritzenden Flüssigkeit ausgesetzt werden. • Auf dem Gerät sollten keine mit Flüssigkeit gefüllten Behälter wie beispielsweise Vasen aufgestellt werden.
 • Handle the power cord carefully. Hold the plug when unplugging the cord. • Gehen Sie vorsichtig mit dem Netzkabel um. Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen. • Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. • Maneggiare il cavo di alimentazione con attenzione. Tenete ferma la spina quando scollegate il cavo dalla presa. • Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía. • Hanteer het netsnoer voorzichtig. Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld. • Hantera nätkablen varsamt. Håll i kablenn när den kopplas från el-uttaget.	 • Unplug the power cord when not using the unit for long periods of time. • Wenn das Gerät längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker. • Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes. • Scollegate il cavo di alimentazione quando prevedete di non utilizzare l'unità per un lungo periodo di tempo. • Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo. • Neem altijd het netsnoer uit het stopkontakt wanneer het apparaat gedurende een lange periode niet wordt gebruikt. • Koppla loss nätkablen om apparaten inte kommer att användas i lång tid.	 • Do not let insecticides, benzene, and thinner come in contact with the unit. • Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen. • Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil. • Assicuratevi che l'unità non entri in contatto con insetticidi, benzolo o solventi. • No permita el contacto de insecticidas, gasolina y diluyentes con el equipo. • Voorkom dat insecticiden, benzeen of verfverdunder met dit toestel in contact komen. • Se till att inte insektsmedel på spraybruk, bensen och thinner kommer i kontakt med apparatens hölje.	ATTENTION: • La ventilation ne doit pas être gênée en recouvrant les ouvertures de la ventilation avec des objets tels que journaux, rideaux, tissus, etc. • Aucune flamme nue, par exemple une bougie, ne doit être placée sur l'appareil. • Veillez à respecter les lois en vigueur lorsque vous jetez les piles usagées. • L'appareil ne doit pas être exposé à l'eau ou à l'humidité. • Ne pas poser d'objet contenant du liquide, par exemple un vase, sur l'appareil. ATTENZIONE: • Le aperture di ventilazione non devono essere ostruite coprendole con oggetti, quali giornali, tovaglie, tende e così via. • Non posizionate sull'unità fiamme libere, come ad esempio candele accese. • Prestate attenzione agli aspetti legati alla tutela dell'ambiente nello smaltimento delle batterie. • L'apparecchiatura non deve essere esposta a gocciolii o spruzzi. • Non posizionate sull'unità alcun oggetto contenente liquidi, come ad esempio i vasi.
	 * (For apparatuses with ventilation holes) • Do not obstruct the ventilation holes. • Decken Sie den Lüftungsbereich nicht ab. • Ne pas obstruer les trous d'aération. • Non coprite i fori di ventilazione. • No obstruya los orificios de ventilación. • De ventilatieopeningen mogen niet worden geblokkeerd. • Täpp inte till ventilationsöppningarna.	 • Never disassemble or modify the unit in any way. • Versuchen Sie niemals das Gerät auseinander zu nehmen oder zu verändern. • Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre. • Non smontate né modificate l'unità in alcun modo. • Nunca desarme o modifique el equipo de ninguna manera. • Dit toestel mag niet gedemonteerd of aangepast worden. • Ta inte isär apparaten och försök inte bygga om den.	PRECAUCIÓN: • La ventilación no debe quedar obstruida por haberse cubierto las aperturas con objetos como periódicos, manteles, cortinas, etc. • No debe colocarse sobre el aparato objetos 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 jarras. WAARSCHUWING: • De ventilatie mag niet worden belemmerd door de ventilatieopeningen af te dekken met bijvoorbeeld kranten, een tafelkleed, gordijnen, enz. • Plaats geen open vlammen, bijvoorbeeld een brandende kaars, op het apparaat. • Houd u steeds aan de milieuvorschriften wanneer u gebruikte batterijen wegdoet. • Stel het apparaat niet bloot aan druppels of spatten. • Plaats geen voorwerpen gevuld met water, bijvoorbeeld een vaas, op het apparaat. OBSERVERA: • Ventilationen bör inte förhindras genom att täcka för ventilationsöppningarna med föremål såsom tidningar, bordsdukar, gardiner osv. • Inga blottade brandkällor, såsom tända ljus, får placeras på apparaten. • Tänk på miljöaspekterna när du bortskaffar batterier. • Apparaten får inte utsättas för vätska. • Placera inte föremål fyllda med vätska, t.ex. vaser, på apparaten.

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.



Pb

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Getting Started

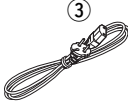
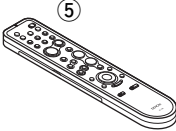
Thank you for purchasing this DENON product. To ensure proper operation, please read this owner’s manual carefully before using the product.

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

Accessories

Check that the following parts are supplied with the product.

① Owner’s manual	1
② Getting started	1
③ Power cord (Cord length: Approx. 1.8 m)	1
④ Service station list	1
⑤ Remote control (RC-1104).....	1
⑥ R6/AA batteries	2
⑦ FM indoor antenna	1
⑧ AM loop antenna	1
⑨ Setup microphone (DM-A409, Cord length: Approx. 7.6 m)	1




Cautions on Handling

• Before turning the power switch on

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

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

• 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 so, 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.

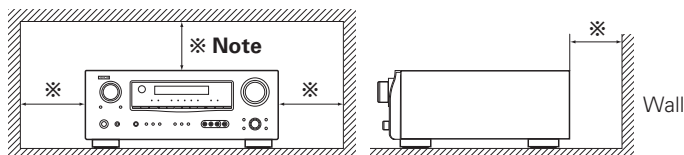
Next, disconnect the connection cables to other system units before moving the unit.

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

Cautions on Installation

Note:

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



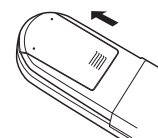
About the Remote Control Unit

In addition to the AVR-1509, the included remote control unit (RC-1104) can also be used to operate the equipment listed below.

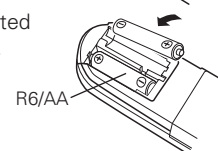
- ① DENON system components
- ② Non-DENON system components
 - By setting the preset memory (see page 38 ~ 40)

Inserting the Batteries

- ① Lift the clasp and remove the rear cover.



- ② Load the two batteries properly as indicated by the marks in the battery compartment.



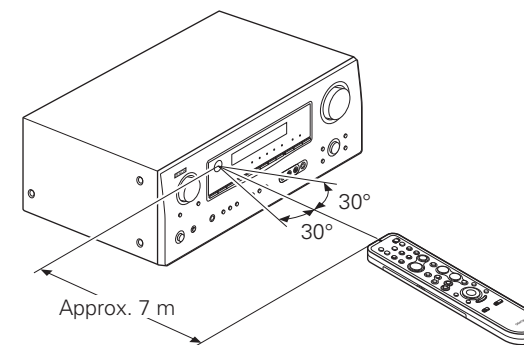
- ③ Put the rear cover back on.

NOTE

- Replace the batteries with new ones if the set does not operate even when the remote control unit is operated close to the unit.
- The supplied batteries are only for verifying operation.
- When inserting the batteries, be sure to do so in the proper direction, following the “+” and “-” marks in the battery compartment.
- To prevent damage or leakage of battery fluid:
 - Do not use a new battery together with an old one.
 - Do not use two different types of batteries.
 - Do not attempt to charge dry batteries.
 - Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- If the battery fluid should leak, carefully wipe the fluid off the inside of the battery compartment and insert new batteries.
- Remove the batteries from the remote control unit if it will not be in use for long periods.
- When replacing the batteries, have the new batteries ready and insert them as quickly as possible.

Operating Range of the Remote Control Unit

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



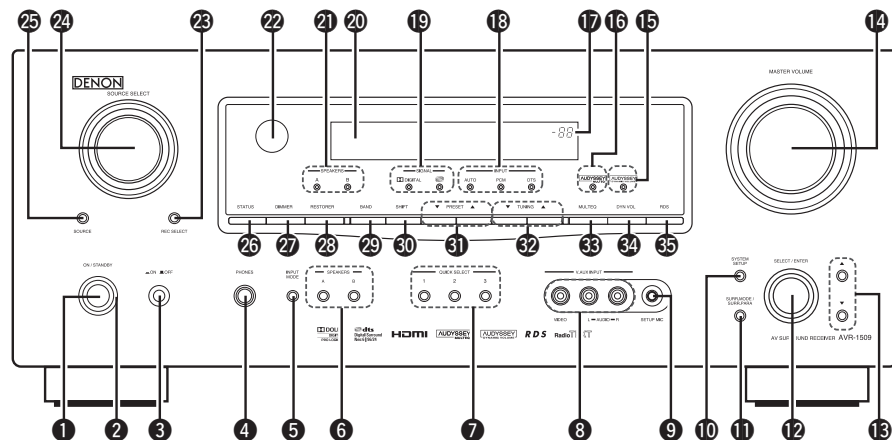
NOTE

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.

Part Names and Functions

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

Front Panel



1 Power operation button (ON/STANDBY) (30)

2 Power indicator (30)

3 Power switch (ON/OFF) (30, 37)

4 Headphone jack (PHONES) (31)

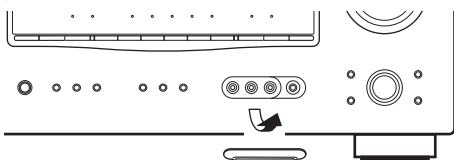
5 INPUT MODE button (30)

6 SPEAKERS button (31, 37)

7 QUICK SELECT buttons (37)

8 V. AUX INPUT connectors

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



9 SETUP MIC jack (15)

10 SYSTEM SETUP button (18)

11 SURR. MODE / SURR. PARA button .. (23, 25)

12 SELECT/ENTER knob



• The **SELECT/ENTER** knob on the main unit operates in the same way as the cursor $\triangleleft$ and $\triangleright$ buttons on the remote control unit.



• The control functions in the same way as the cursor $\triangleleft$ button when turned counterclockwise, as the cursor $\triangleright$ button when turned clockwise.
• The control functions in the same way as the **ENTER** button when pressed the knob.

13 Cursor buttons ($\triangleleft$ $\triangleright$) (18)

14 MASTER VOLUME control knob (31)

15 Dynamic Volume indicator (28)

16 MultEQ indicator (27)

17 Master volume indicator

18 INPUT mode indicators (30)

19 SIGNAL indicators

20 Display

21 SPEAKERS indicators (31)

22 Remote control sensor (3)

23 REC SELECT button (36)

24 SOURCE SELECT knob (30)

25 SOURCE button (30)

26 STATUS button (29)

27 DIMMER button (31)

28 RESTORER button (28)

29 BAND button (31)

30 SHIFT button (32)

31 PRESET CHANNEL buttons ($\triangle$ ∇) (32)

32 TUNING buttons ($\triangle$ ∇) (31)

33 MULT EQ button (27)

34 DYNAMIC VOLUME button (27, 28)

※ **About Dynamic Volume**

Audyssey Dynamic Volume™ solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies.

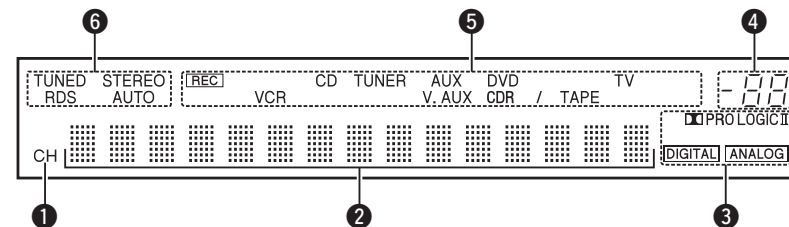
Audyssey Dynamic EQ™ is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression, and dialog clarity remain the same.

※ **About Dynamic EQ**

Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Audyssey Dynamic EQ works in tandem with Audyssey MultEQ® to provide well-balanced sound for every listener at any volume level.

35 RDS button (33)

Display



1 Signal channel indicator

Lights when the preset channel is displayed at 2.

2 Information display

3 Input signal indicators

4 Master volume indicator

This displays the volume level.
The Setup item number is displayed in System Setup.

5 Recording output source indicator

This lights when the REC OUT mode is selected. (This indicator is off when "SOURCE" is selected.)

6 Tuner reception mode indicators

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

• **AUTO**

This lights when in the auto tuning mode.

• **STEREO**

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

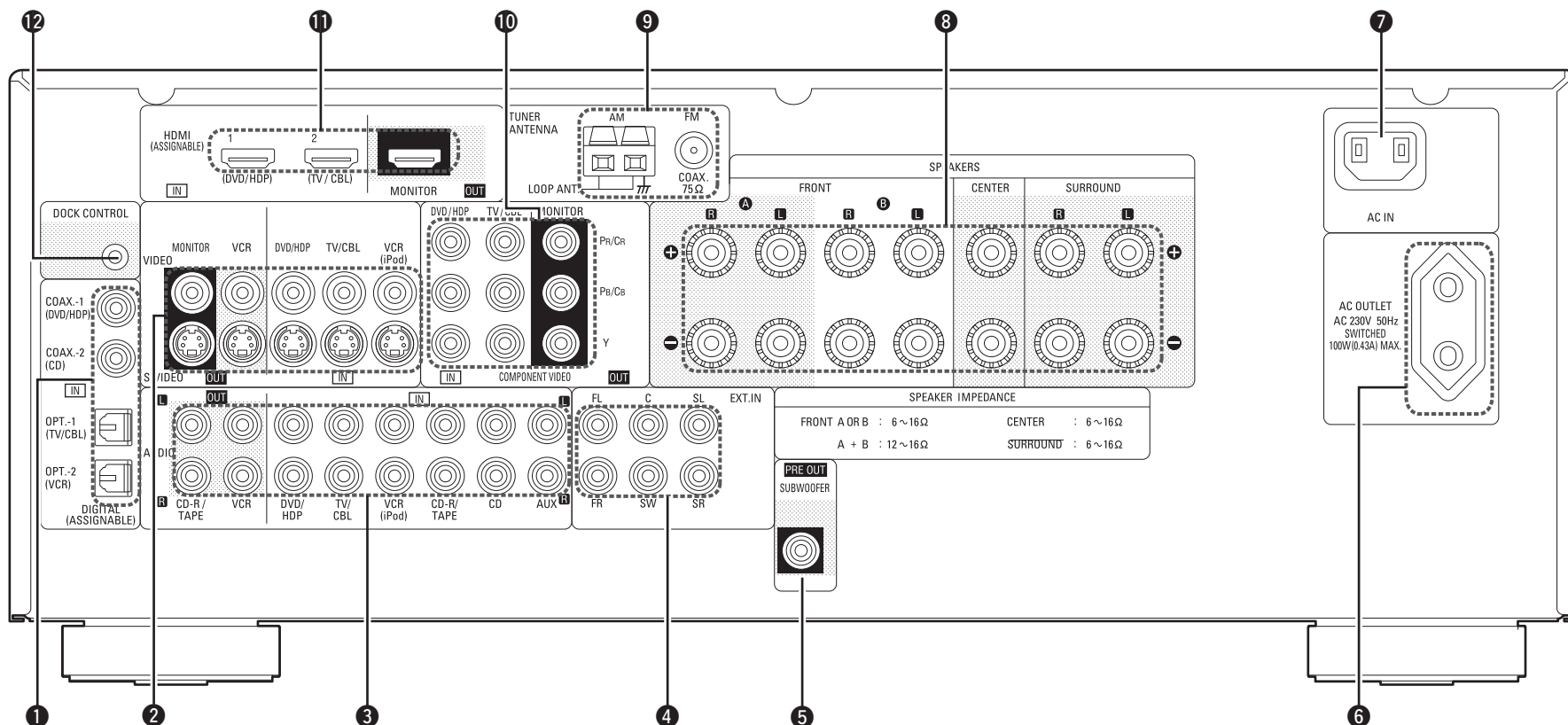
• **TUNED**

This lights when the broadcast is properly tuned in.

• **RDS**

This lights when receiving RDS broadcasts.

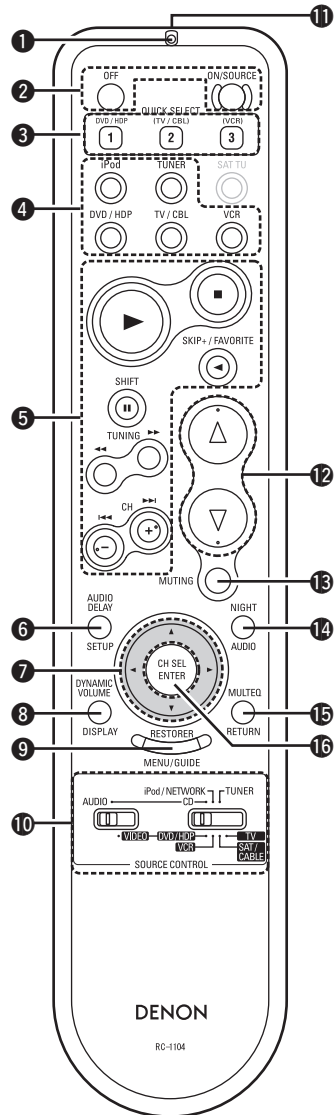
Rear Panel



- | | | |
|--|---|---|
| 1 Digital audio connectors (OPTICAL / COAXIAL) (9 ~ 11) | 5 PRE OUT connector (8) | 10 COMPONENT VIDEO connectors (10, 11) |
| 2 VIDEO / S-VIDEO connectors (10 ~ 12) | 6 AC OUTLET (14) | 11 HDMI connectors (9 ~ 11) |
| 3 Analog audio connectors (AUDIO) (9 ~ 12) | 7 AC inlet (AC IN) (14) | 12 DOCK CONTROL jack (11) |
| 4 EXT. IN connectors (13) | 8 Speaker terminals (SPEAKERS) (8) | |
| | 9 FM/AM antenna terminals (TUNER ANTENNA) (13) | |

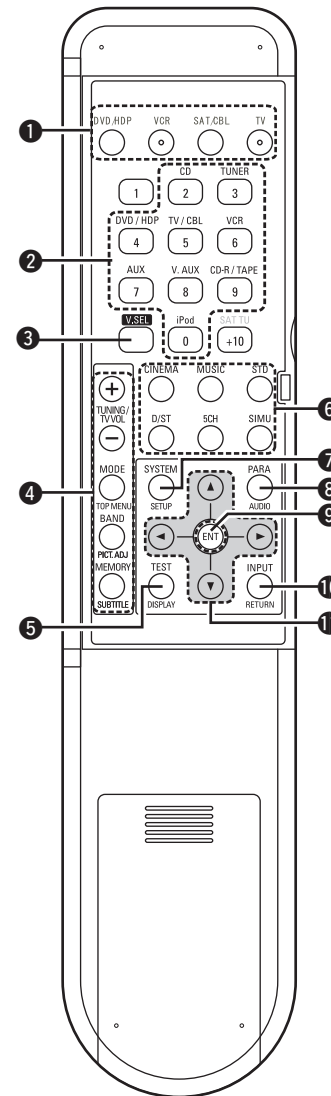
Remote Control Unit

[Front]



- 1 Indicator (38)
- 2 Power buttons (30)
- 3 QUICK SELECT buttons (37)
- 4 Source select buttons (30)
- 5 System buttons (35, 39)
- 6 AUDIO DELAY button (21)
- 7 Cursor buttons (Δ ▽ ◀ ▶) (18)
- 8 DYNAMIC VOLUME button (27, 28)
- 9 RESTORER button (28)
- 10 SOURCE CONTROL switches (31)
- 11 Remote control signal transmitter
- 12 Master volume control buttons (31)
- 13 MUTING button (31)
- 14 NIGHT button (29)
- 15 MULTEQ button (27)
- 16 Channel select (CH SEL) /
ENTER button (18, 36)

[Rear]



- 1 Power buttons (38, 40)
- 2 Source select buttons (30)
- 3 Video select button (V.SEL) (31)
- 4 Tuner system buttons (31, 32)
- 5 Test tone button (TEST) (20)
- 6 Surround mode buttons (23, 24, 26)
- 7 System setup button (SYSTEM) (18)
- 8 Surround parameter button (PARAMETER) (23, 25)
- 9 Enter button (ENT) (18)
- 10 Input mode button (INPUT) (30)
- 11 Cursor buttons (Δ ▽ ◀ ▶) (18)

NOTE

- The **SAT TU** button cannot be used.
- If buttons on the front or rear are pressed strongly, the button on the opposite side will be activated too.

Connections

Connections for all compatible audio and video signal formats are described in this owner's manual. Please select the types of connections suited for the equipment you are connecting. With some types of connections, certain settings must be made on the AVR-1509. For details, refer to the instructions for the respective connection items below.

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.
- 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 humming or noise.

Preparations

Cables Used for Connections

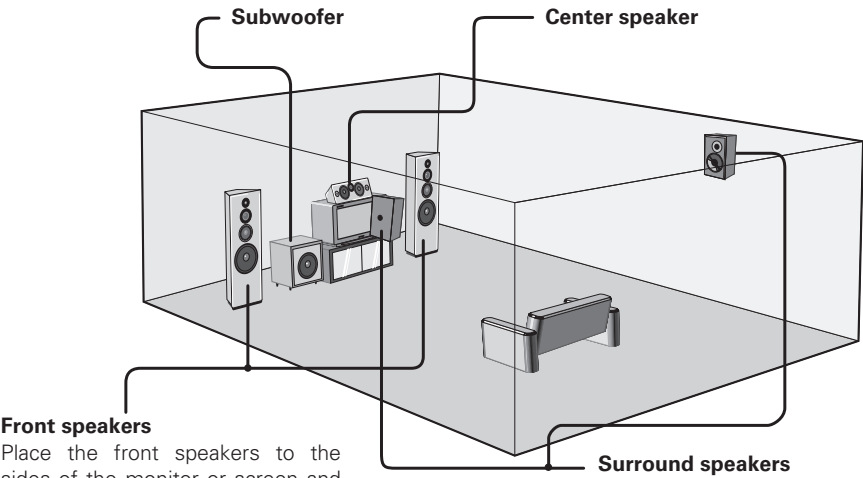
Select the cables according to the equipment being connected.

Audio cables	Video cables
Coaxial digital connections (Orange)    Coaxial digital (75 Ω/ohms pin-plug) cable Optical digital connections    Optical cable Analog connections (stereo) (White)    (Red)    Stereo pin-plug cable Analog connections (monaural, for subwoofer) (Black)    Pin-plug cable Speaker connections    Speaker cables	Component video connections (Green)    (Y) (Blue)    (PB/CB) (Red)    (PR/CR) Component video cable S-Video connections    S-Video cable Video connections (Yellow)    75 Ω/ohms pin-plug video cable Audio and video cables HDMI connections    19-pin HDMI cable Signal direction Audio signal: Output  Input Input  Output Video signal: Output  Input Input  Output

Speaker Connections

Speaker Installation

The illustration below shows a basic example of installation of the amplifier combined with 6 speakers and a monitor.



Front speakers
Place the front speakers to the sides of the monitor or screen and as flush with the screen surface as possible.

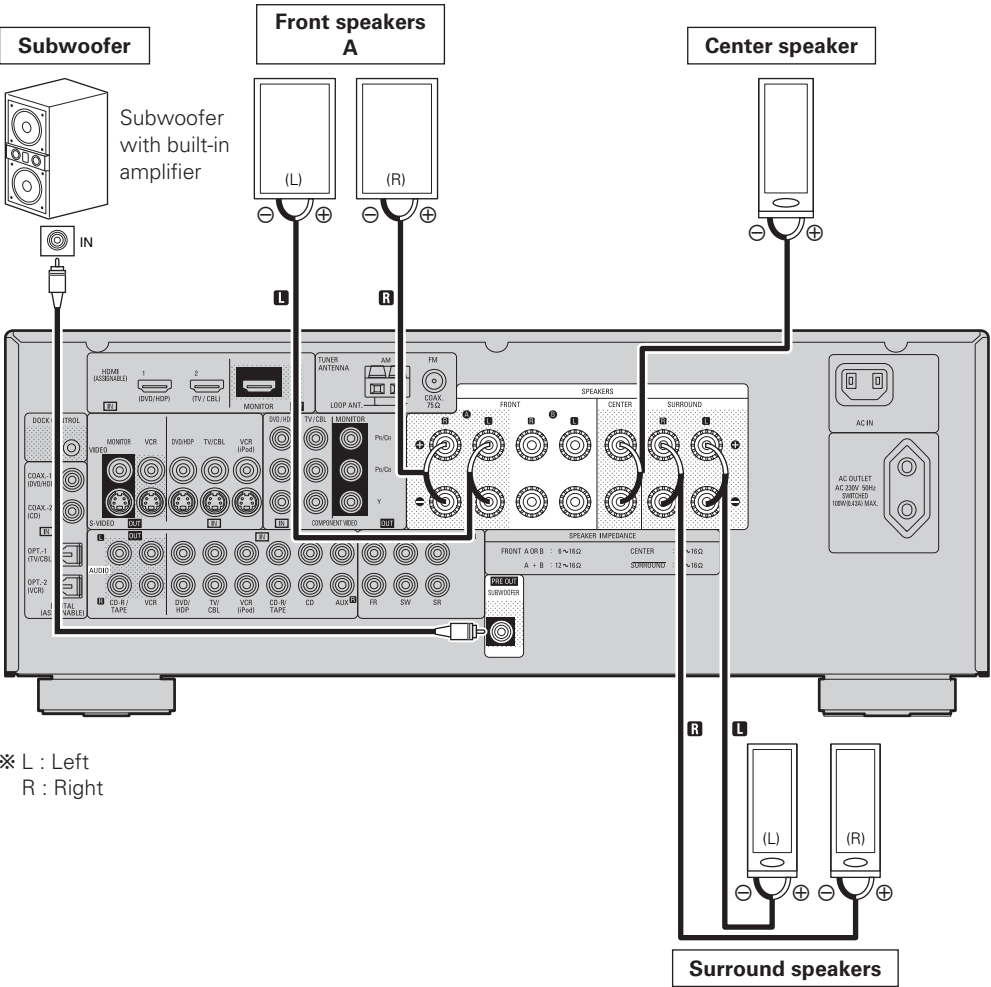


The table below shows a typical speaker configuration for the AVR-1509.

	FRONT		CENTER	SURROUND		SUBWOOFER
	L	R		L	R	
5.1-channels	○	○	○	○	○	○
3.1-channels	○	○	○	—	—	○
2.1-channels	○	○	—	—	—	○
2-channels	○	○	—	—	—	—

Speaker Connections

Example: 5.1-channels



※ L : Left
R : Right

Connecting the Speaker Cables

Carefully check the left (L) and right (R) channels and + (red) and – (black) polarities on the speakers being connected to the AVR-1509, and be sure to interconnect the channels and polarities correctly.

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



2 Turn the speaker terminal counterclockwise to loosen it.



3 Insert the speaker cable's core wire to the hilt into the speaker terminal.



4 Turn the speaker terminal clockwise to tighten it.



NOTE

- Use speakers with an impedance of 6 to 16 Ω /ohms. When using front A and B speakers simultaneously, use speakers with an impedance of 12 to 16 Ω /ohms.
- Connect the speaker cables in such a way that they do not stick out of the speaker terminals. The protection circuit may be activated if the core wires touch the rear panel or if the + and – sides touch each other (☞ “Protection circuit”).
- Never touch the speaker terminals while the power supply is connected. Doing so could result in electric shock.

Protection circuit

If the core wires touch the rear panel and the screws etc., or the $\pm$ sides touch each other, the protection circuit will be activated and the power indicator will flash red at intervals of 0.5 secs.

If the protection circuit is activated, the speaker output is isolated, and the power supply goes to the standby state. If the power supply is turned off, after the power cord is withdrawn, please confirm that speaker cable and input cable are connected.

Also, if replaying large sound levels by using a speaker having an impedance less than that specified (eg, 4 Ω /ohms), the temperature will rise, and the protection circuit might be activated. The power supply will go into the standby state, and the power indicator will flash red at 2 second intervals.

In this case, please switch off the power supply, and wait until the AVR-1509 has cooled down, and the surrounding ventilation is good. Even if there are no problems with the surrounding ventilation and connections, in the event of the protection circuit becoming activated, due to thinking that the AVR-1509 has failed, please contact DENON Service center after switching off.

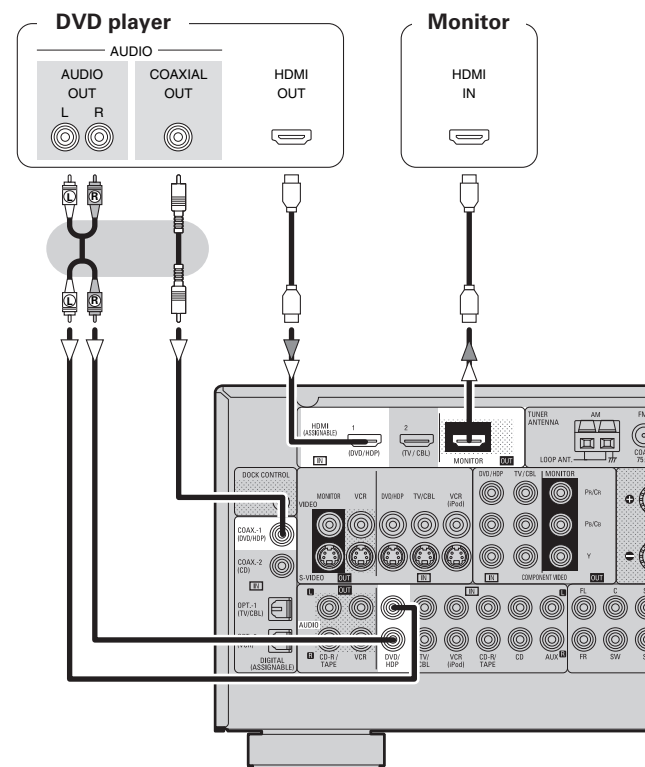
Connecting Equipment with HDMI Connectors



When HDMI input signals are sent to the monitor as HDMI output, both video and audio are output to the monitor.

NOTE

The audio signal input to the HDMI input connector cannot be played on the AVR-1509. Input the audio signal to the digital audio input connector or analog audio input connector.



NOTE

- The AVR-1509 cannot be controlled from another device via the HDMI cable.
- Video signals are not output if the input video signals do not match the monitor's resolution. In this case, switch the DVD player's resolution to a resolution with which the monitor is compatible.
- Use a cable on which the HDMI logo is indicated (a certified HDMI product) for connection to the HDMI connector. Normal playback may not be possible when using a cable other than one on which the HDMI logo is indicated (a non-HDMI-certified product).
- If the monitor or DVD player does not support Deep Color, deep color signal transfer is not possible.
- If the monitor or DVD player does not support xvYCC, xvYCC signal transfer is not possible.



- The audio and video signals input to the AVR-1509's HDMI input connector are output unchanged from the HDMI output connector. Because of this, the sound is output from the monitor connected using the HDMI connectors, but in order to take full advantage of the AVR-1509's playback sound, turn the TV's volume down.
- If the connected monitor or DVD player only has a DVI-D connector, use an HDMI/DVI converter cable. **When using a DVI cable, no audio signals are transmitted.**
- Use a Deep Color compatible cable for connection to Deep Color compatible devices.

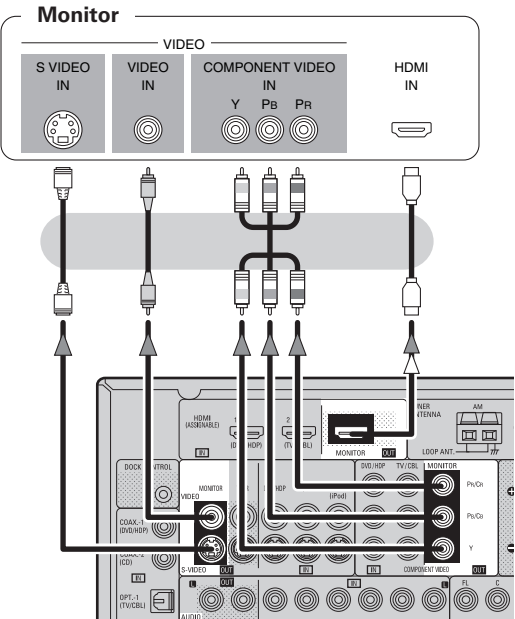
When connecting with an HDMI/DVI converter cable (adapter)

- HDMI video signals are theoretically compatible with the DVI format. When connecting to a monitor, etc., equipped with a DVI-D connector, connection is possible using an HDMI/DVI converter cable, but depending on the combination of components in some cases the video signals will not be output.
- When connecting using an HDMI/DVI converter adapter, the video signals may not be output properly due to poor connections with the connected cable, etc.

- ※ The AVR-1509 is equipped for HDMI version 1.3a. This version is compatible with other versions, allowing connection to all components equipped with an HDMI connector.
- ※ The AVR-1509 is compatible with 30- and 36-bit Deep Color.
- ※ The AVR-1509 can be connected to a device equipped with an HDMI output connector using an HDMI cable.
- ※ The AVR-1509 is compatible with HDMI Ver. 1.3a Deep Color and xvYCC.

Connecting the Monitor

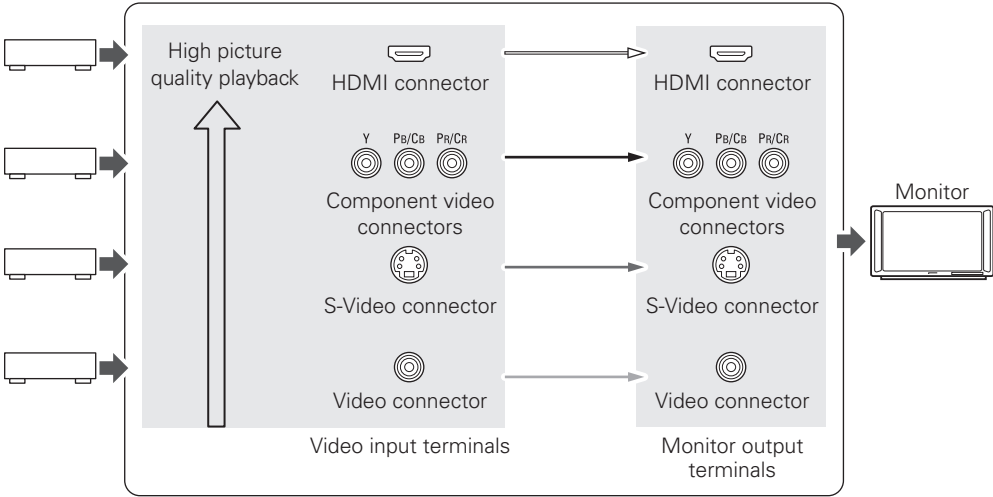
Select the terminal to use and connect the device.



NOTE

- The AVR-1509 supports four video input formats: HDMI, component video, S-video and video.
- Because video signals are output from the AVR-1509's monitor output terminal in the same format as the video input signals, **the monitor output terminal should be of the same type as the terminal used for input.**
- The component video connectors may be indicated differently on your monitor. For details, see the monitor's operating instructions.
- To play the sound by AVR-1509, make analog or digital audio output connections to AVR-1509's audio input connectors.

[Flow of video signals inside the AVR-1509]



Connecting the Playback Components

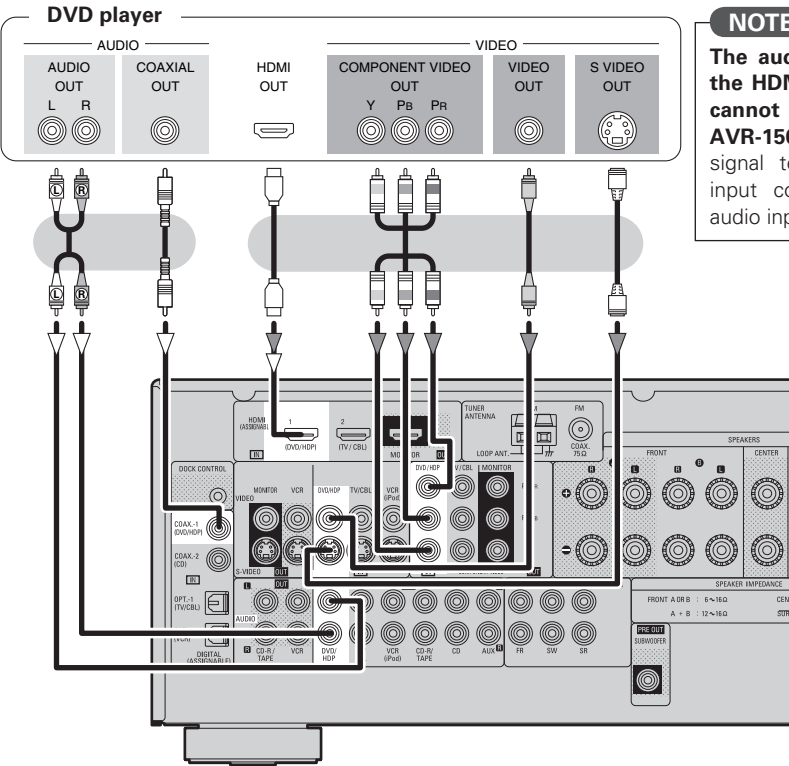
Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

DVD Player

Select the terminal to use and connect the device.

NOTE

The audio signal input to the HDMI input connector cannot be played on the AVR-1509. Input the audio signal to the digital audio input connector or analog audio input connector.



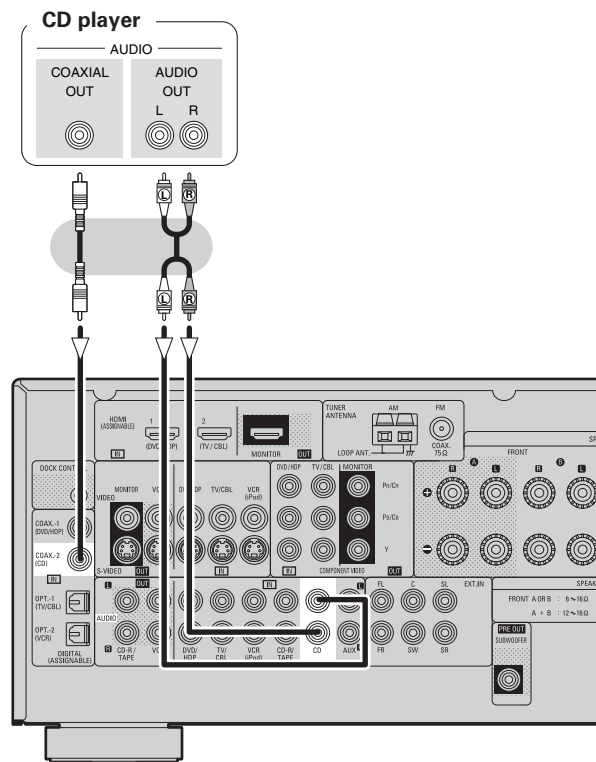
- The same method can be used to connect an HDP (High-Definition Player) such as a Blu-ray Disc player.
- When using an optical cable for the digital audio connection, make the settings at "System Setup" – "Input Setup" – "Digital In Assign" (page 21).

NOTE

Because video signals are output from the AVR-1509's monitor output terminal in the same format as the video input signals, **the monitor output terminal should be of the same type as the terminal used for input.**

CD Player

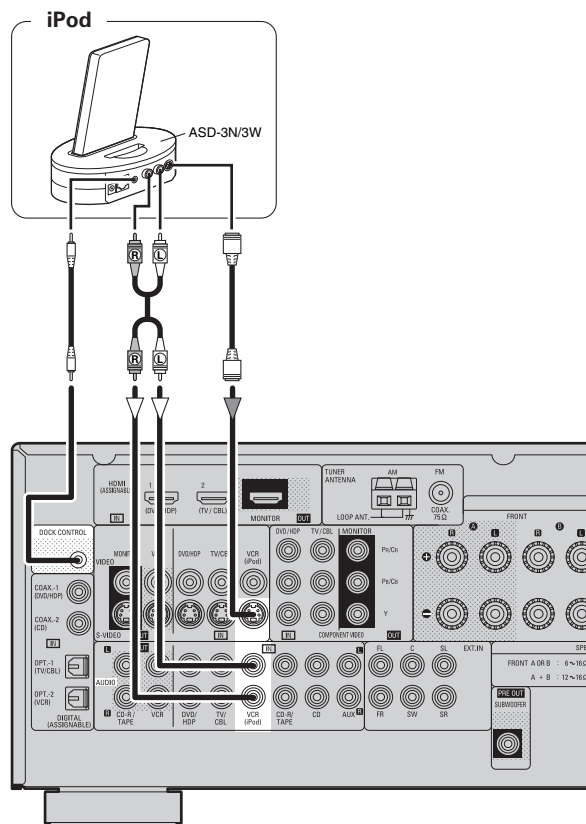
Select the terminal to use and connect the device.



When using an optical cable for the digital audio connection, make the settings at “System Setup” – “Input Setup” – “Digital In Assign” (page 21).

iPod®

Use a DENON control dock for iPod (ASD-1R, ASD-11R, ASD-3N or ASD-3W, sold separately) to connect the iPod to the AVR-1509. For instructions on the control dock for iPod settings, refer to the control dock for iPod's operating instructions.



- With the default settings, the iPod can be used connected to the VCR (iPod) connector.
- To assign the iPod to a connector other than VCR (iPod), make the settings at “System Setup” – “Input Setup” – “iPod Assign” (page 21).

NOTE

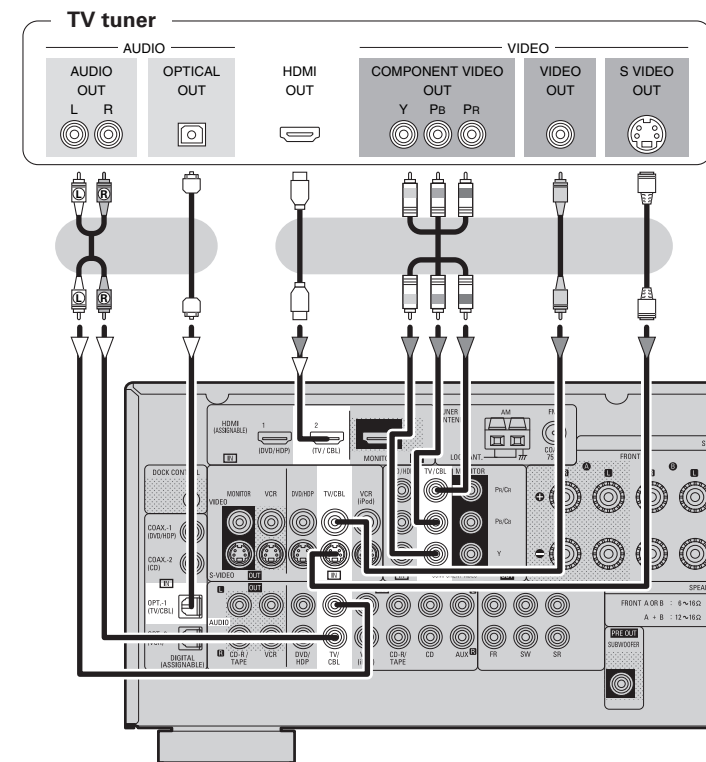
To playback iPod Video or Photos on a TV monitor, connect the TV to the S-Video Out terminal of AVR-1509.

TV/CABLE Tuner

Select the terminal to use and connect the device.

NOTE

The audio signal input to the HDMI input connector cannot be played on the AVR-1509. Input the audio signal to the digital audio input connector or analog audio input connector.



When using a coaxial cable for the digital audio connection, make the settings at “System Setup” – “Input Setup” – “Digital In Assign” (page 21).

NOTE

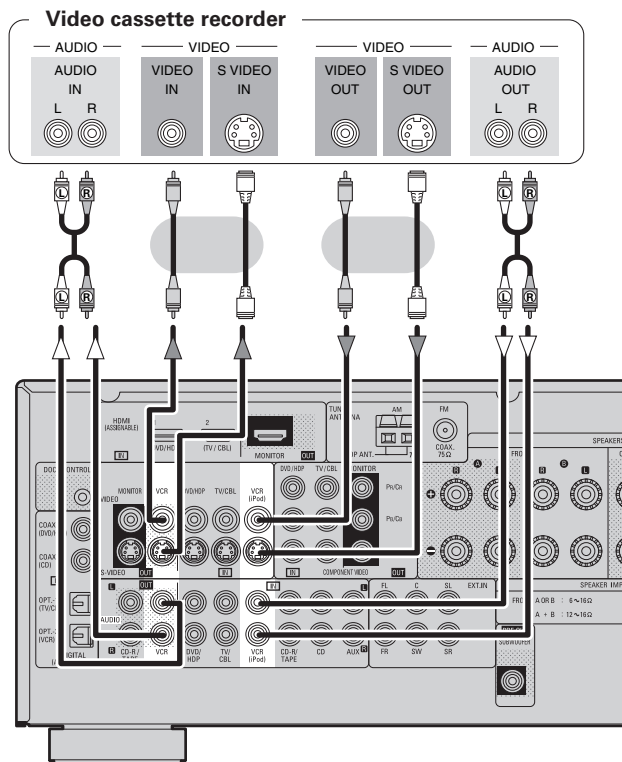
Because video signals are output from the AVR-1509's monitor output terminal in the same format as the video input signals, the monitor output terminal should be of the same type as the terminal used for input.

Connecting the Recording Components

Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

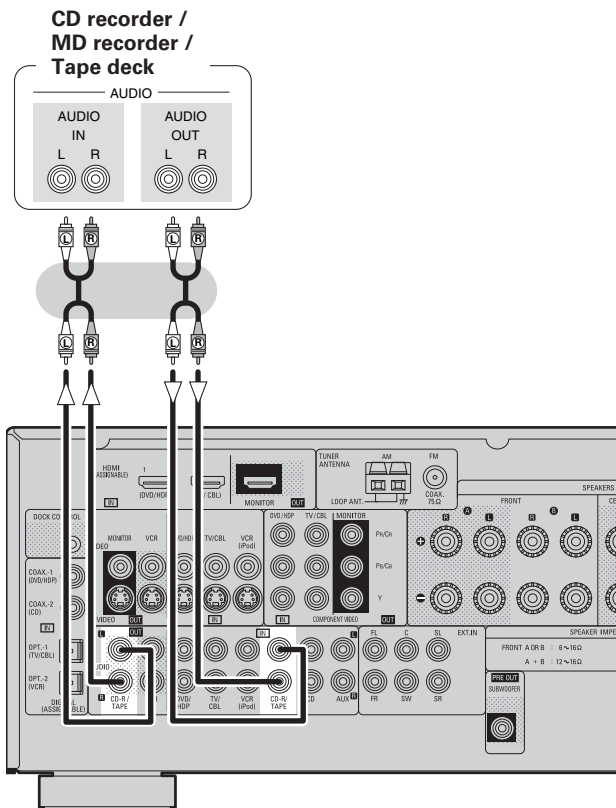
Video Cassette Recorder

Select the terminal to use and connect the device.



CD Recorder / MD Recorder / Tape Deck

Select the terminal to use and connect the device.

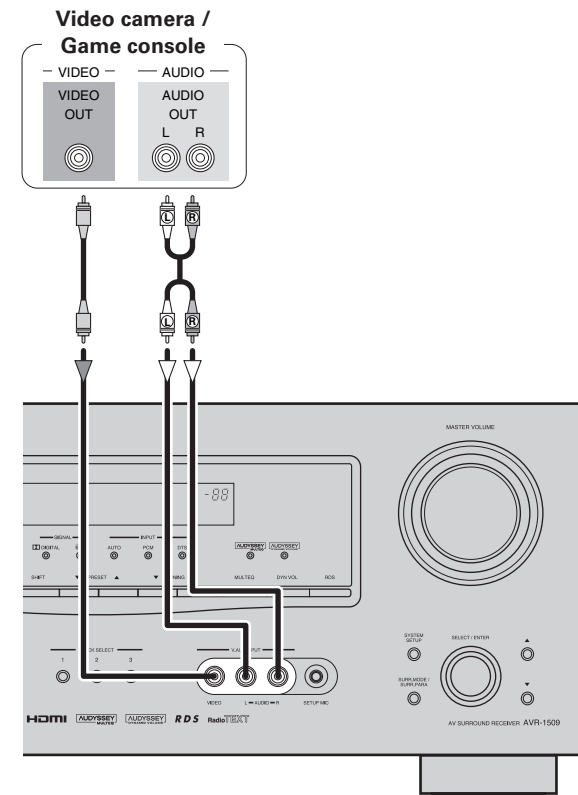


Connections to Other Devices

Carefully check the left (L) and right (R) channels and the inputs and outputs, and be sure to interconnect correctly.

Video Camera / Game Console

Select the terminal to use and connect the device.

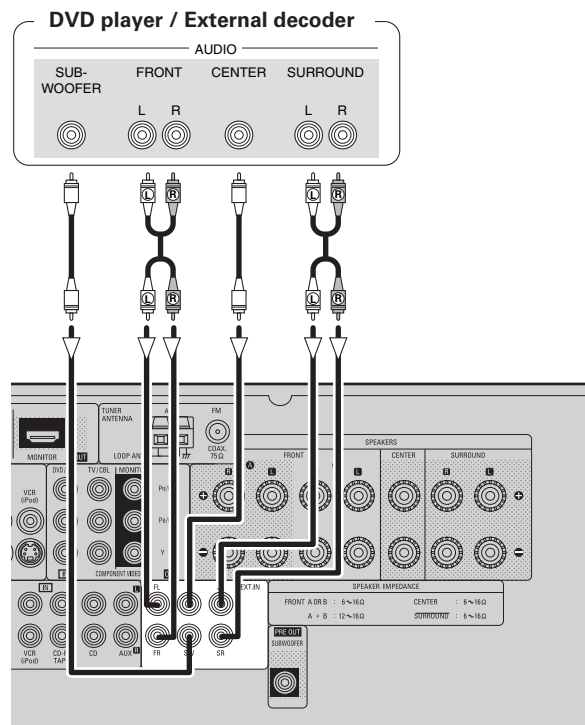


When recording via the AVR-1509, the playback device's cable must be of the same type as the cable used to connect the AVR-1509's VCR OUT connector.

Example: TV IN → S-Video cable : VCR OUT → S-Video cable
TV IN → Video cable : VCR OUT → Video cable

Component with Multi-channel Output Connectors

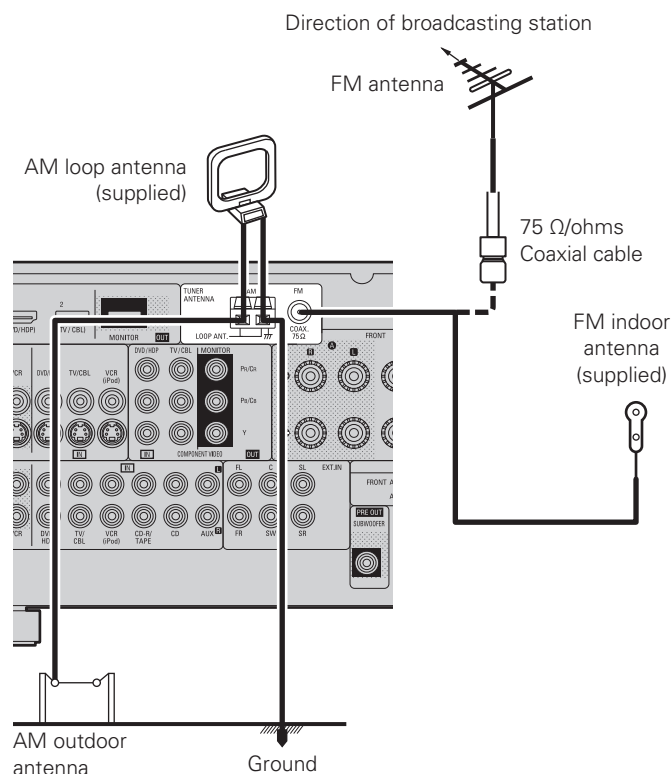
Select the terminal to use and connect the device.



- To play the analog input signals input to the EXT. IN connectors, press the **INPUT MODE** button on the main unit or the **INPUT** button on the remote control unit and select "EXT. IN" (page 30).
- The video signal can be connected in the same way as a DVD player (page 10).
- To play copyright-protected discs, connect the AVR-1509's EXT. IN connector with the DVD player's analog multi-channel output connector.

Antenna Terminals

An FM antenna cable plug can be connected directly.



AM loop antenna assembly

1. Remove the vinyl tie and take out the connection line.
 2. Bend in the reverse direction.
 3. a. With the antenna on top of any stable surface.
b. With the antenna attached to a wall.
- Mount
Installation hole Mount on wall, etc.

Connection of AM antennas

1. Push the lever.
2. Insert the conductor.
3. Return the lever.

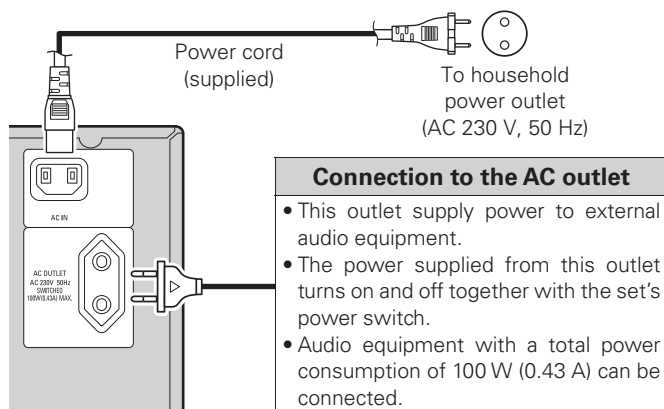


NOTE

- 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.

Connecting the Power Cord

Wait until all connections have been completed before connecting the power cord.



NOTE

- Insert the AC plugs securely. Incomplete connections could cause noise.
- Only use the AC outlet to plug in audio equipment. Do not use them as power supplies for hairdryers or anything other than audio equipment.

Once Connections are Completed

Turning the Power On (page 30)

Operations

Menu Map

Auto Setup (page 15 ~ 17)

※ When the setup microphone is connected.

□ Auto Setup

- Step 1: Speaker Detection
- Step 2: Measurement
- Step 3: Calculation
- Step 4: Check
- Step 5: Store

System Setup (page 18 ~ 23)

□ Speaker Setup (page 19, 20)

- Speaker Configuration
- Subwoofer Mode Setup
- Distance
- Crossover Frequency
- Test Tone
- Restore

□ Input Setup (page 21, 22)

- HDMI In Assign
- Digital In Assign
- iPod Assign
- Audio Delay
- EXT. IN Subwoofer Level
- Auto Preset Memory

□ Option Setup (page 22, 23)

- Volume Control
 - Volume Limit
 - Power On Level
 - Mute Level
- Auto Surround Mode
- Direct Mode Setup
- Remote ID Setup

Parameter (page 25 ~ 29)

□ Surround Parameter

- | | |
|----------------|------------------|
| • Mode | • Subwoofer |
| • Cinema EQ | • Tone Control |
| • D. Comp | • Bass |
| • LFE | • Treble |
| • Center Image | • MultEQ |
| • Panorama | • Dynamic EQ |
| • Dimension | • Dynamic Volume |
| • Center Width | • DV Setting |
| • Delay Time | • RESTORER |
| • Effect Level | • Night Mode |
| • Room Size | • Default |
| • SW ATT | |

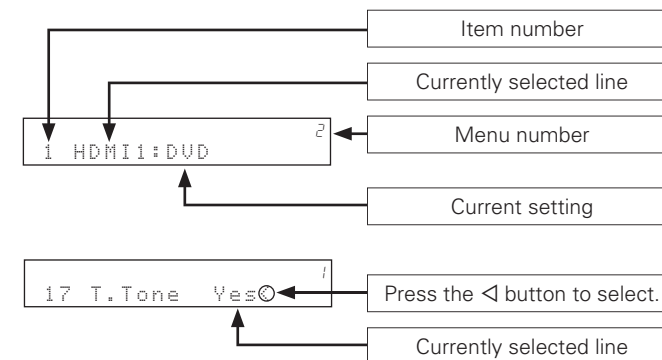
Information (page 29)

□ Status

□ Audio Input Signal

Examples of Front Display

Some typical examples are described below.

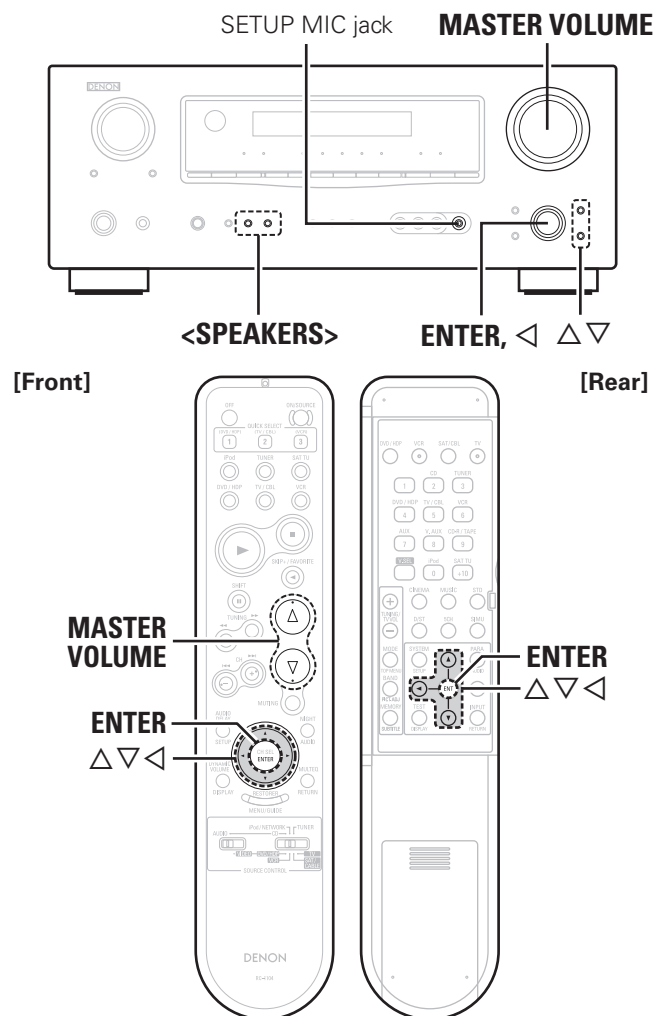


Auto Setup



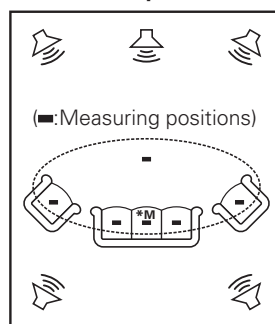
Symbols used to indicate buttons in this manual

- Button located on both the main unit and the remote control unit → **BUTTON**
- Button only on the main unit → **<BUTTON>**
- Button only on the remote control unit → **[BUTTON]**

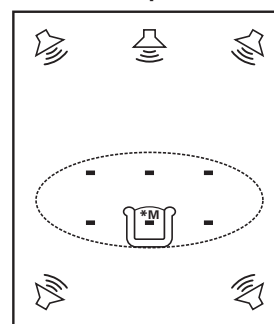


- Audyssey MultEQ automatically measures the acoustical problems in the listening environment to create the best audio experience for your home theater.
- Audyssey MultEQ optimizes a large listening area where one or more listeners are seated. Measurements are performed by placing the calibrated microphone (DM-A409) successively at multiple positions throughout the listening area as shown in **Example ①**. For best results, it is strongly recommended to measure 6 positions so that the measurements have the proper spatial weighting. Even if the listening environment is small as shown in **Example ②**, measuring at multiple points throughout the listening environment results in more effective correction.

Example ①



Example ②



About the main listening position (*M)

The main listening position refers to the most central position where one would normally sit within the listening environment. MultEQ uses the measurements from this position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer.



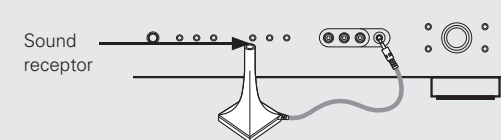
To make manual adjustments to the settings, see pages 19, 20.

Preparations

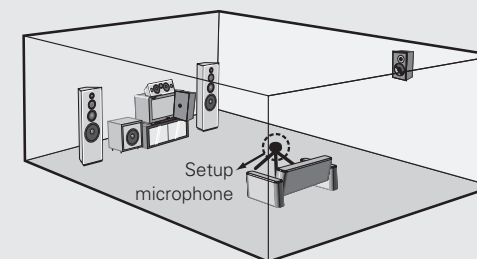
1 Press **<SPEAKERS>** to select the front speakers **Front A**, **Front B** or **Front A+B**.

2 Connect the included calibrated setup microphone to the **SETUP MIC** jack on the main unit.

"Auto Set<Start>" is displayed.



3 Place the microphone at ear height on a tripod or stand with the microphone pointing directly up towards the ceiling.



※ Do not hold the microphone in your hand during measurements. Be sure that the path from microphone to the speakers is not blocked by objects. Avoid placing the microphone close to a seat back or wall as sound reflections may give inaccurate results.



When using a subwoofer, make the following settings before starting the auto setup procedure:

- Defeat the volume and crossover controls if possible
- If this is not possible then set
 - Volume: "12 o'clock" position
 - Crossover frequency: "Maximum/Highest Frequency"
 - Low pass filter: "Off"
 - Standby mode: "Off"

NOTE

- Do not disconnect the setup microphone until the auto setup procedure is completed.
- When using headphones, unplug the headphones before starting the auto setup procedure.

Auto Setup

Optimize settings for speakers in use.

1 Auto Setup

The settings found at this stage are applied automatically.

[Auto setup flow]

Step 1: Speaker Detection



Step 2: Measurement



Step 3: Calculation



Step 4: Check



Step 5: Store

NOTE

- Loud test sounds may be played during Audyssey MultEQ automatic speaker setup. This is part of normal operation. If there is background noise in room, these test signals will increase in volume.
- Do not stand between the speakers and setup microphone or allow obstacles in the path while the measurements are being made. This will cause inaccurate readings.
- Make the room as quiet as possible. Background noise can disrupt the room measurements. Close windows, silence cell phones, televisions, radios, air conditioners, fluorescent lights, home appliances, light dimmers, or other devices as measurements may be affected by these sounds. Cell phones should be placed away from all audio electronics during the measurement process as Radio Frequency Interference (RFI) may cause measurement disruptions (even if the cell phone is not in use).
- Operating **MASTER VOLUME** during the measurements will cancel the measurements.

About the Auto Setup

The Audyssey MultEQ auto setup function detects the presence of each speaker and automatically calculates the speaker size, channel level, distance, and optimal crossover frequency setting. Audyssey MultEQ corrects acoustical distortions within the listening area. Before starting, connect and position all of your speakers. Once started, MultEQ will play a series of test tones through each speaker.



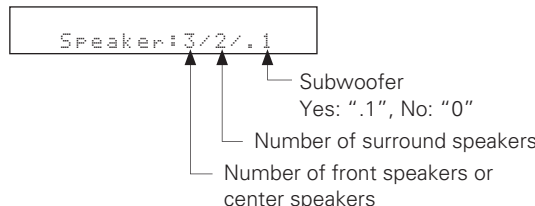
If an error message appears during the measurements, check "Error Messages", take the advised action, then start the measurements again (see page 17).

Step 1 : Speaker Detection

The speaker connection and polarity are detected at the first measurement position (main listening position). The following attributes are also determined at this time: "Speaker Size", "Speaker Distance", "Channel Level", "Crossover Frequency".

- Press $\triangleleft$ while "Auto Set<Start" is displayed.
 - While the measurements are being conducted "Measure:FL <Ccl" ("FL" indicates the speaker being measured) is displayed.
 - When the measurements are completed, the number of detected speakers is displayed.

Example : For a 5.1 channel speaker configuration



- To cancel the measurements, press $\triangleleft$ while "Measure:FL <Ccl" is displayed ("Ccl" stands for "Cancel").



- If the result differs from the actual connection status or an error message appears, use ∇ to display "Retry<" and then press $\triangleleft$ to repeat the measurement.
- If the result still differs from the actual connection status after re-measurement or the error message still appears, it is possible that the speakers are not connected properly. Turn the AVR-1509 off, check the speaker connections and repeat the measurement process from the beginning.

NOTE

Do not change the speaker connections or subwoofer volume after "Step 1".

Step 2 : Measurement

- Press ∇ to select "2nd Start<", then press $\triangleleft$.
 - The measurement of the 2nd position starts.
- Move the microphone to the 3rd position and press $\triangleleft$.
 - The measurement of the 3rd position starts.
- Perform ② repeatedly.
 - "Calculate<" is displayed when you have completed measurements in 6 positions.
 - If you want to stop after measuring just five or fewer positions, use ∇ to display "Calculate<".



After completing a measurement position, move the microphone to the next position.

Measure at 6 positions: the main listening position and 5 other surrounding positions. Although it is allowable to measure less than 6 positions, it is recommended to measure **6** for best results.

Step 3 : Calculation

The values obtained from the measurements are automatically analyzed and the attributes for each of the speakers in the listening area are determined.

- Press $\triangleleft$ while "Calculate" is displayed.
 - "Calculating" is displayed and analysis begins.



- Analysis takes several minutes to complete.
- The time required for this analysis depends on the number of speakers connected. The greater the number of speakers connected, the longer analysis will take.

NOTE

Do not change the speaker connections or subwoofer volume, or speaker locations after making measurements. If changes are necessary, make the changes and use the Audyssey MultEQ auto setup once again for an updated EQ solution.

Step 4 : Check

When analysis is complete, "Parameter Check<" is displayed.
Press $\triangleleft$ and check the analysis results for the following four items.

① Make your selection using $\triangle\nabla$ and press $\triangleleft$.

- Presence and size of speaker
"SpConfig. Check<"
- Distance of speaker from listening position
"Distance Check<"
- Speaker channel level
"Ch Level Check<"
- Crossover Frequency
"Crossover Check<"

② Use $\triangle\nabla$ to change which speaker is displayed.

❑ To switch to another analysis result item

Press **ENTER**.

This returns you to analysis results items, so repeat operation ①.

❑ To proceed to "Step 5 : Store"

During display of crossover frequency result or analysis results item, press **ENTER**.

- "Store<" is displayed.



- To proceed to "Step 5" without checking the analysis result, use $\triangle\nabla$ to select "Store<" while "Parameter Check<" is displayed.
- Values that are different from the actual distance may be set for speakers with built-in filters (subwoofers, etc). This is because filters add electrical delay to the signal that should be compensated.

Step 5 : Store

The auto setup measurement results are stored in the AVR-1509.

① Press $\triangleleft$ while "Store<" is displayed.

- "Storing" blinks on the display panel while the results are being stored.
- When storing is complete, "Completed" is displayed followed by "Disconnect Mic".

② Disconnect the setup microphone from the AVR-1509.

❑ To cancel storing

Use $\triangle\nabla$ to display "Cancel<" while "Store<" is displayed and press $\triangleleft$.

- All the measured auto setup data will be erased.

NOTE

Do not turn the power off while the settings are being stored.

2 Error Messages

If the auto setup procedure could not be completed due to speaker installation, the measuring environment, etc. an error message is displayed. Check the relevant items and be sure to take the necessary measures. After addressing any issues, perform the auto setup procedure over again.

Error messages (examples)	Cause	Measures
Mic or Sp:None	• The included setup microphone is not connected. • Not all speakers could be detected.	• Connect the included setup microphone to the SETUP MIC jack on the main unit. • Check the speaker connections.
Ambient Noise	• Too much noise in the room for accurate measurements to be made. • Speaker or subwoofer sound is too low for accurate measurements to be made.	• Either turn off any device generating noise or move it away. • Try again when the surroundings are quieter. • Check the speaker installation and the direction in which the speakers are facing. • Adjust the subwoofer's volume.
Caution!Sp None ↕ The messages alternate FR	• Displayed speaker could not be detected. · The front L and front R speakers were not properly detected. · Only one channel of the surround speakers was detected.	• Check the connections of the displayed speaker.
Caution!Phase ↕ The messages alternate SL	• Displayed speaker connected with the polarities reversed.	• Check the polarities of the displayed speaker. • For some speakers, this error message may be displayed even if the speaker is properly connected. If the connection is correct, use $\triangle\nabla$ to display "Skip<" and then press $\triangleleft$.



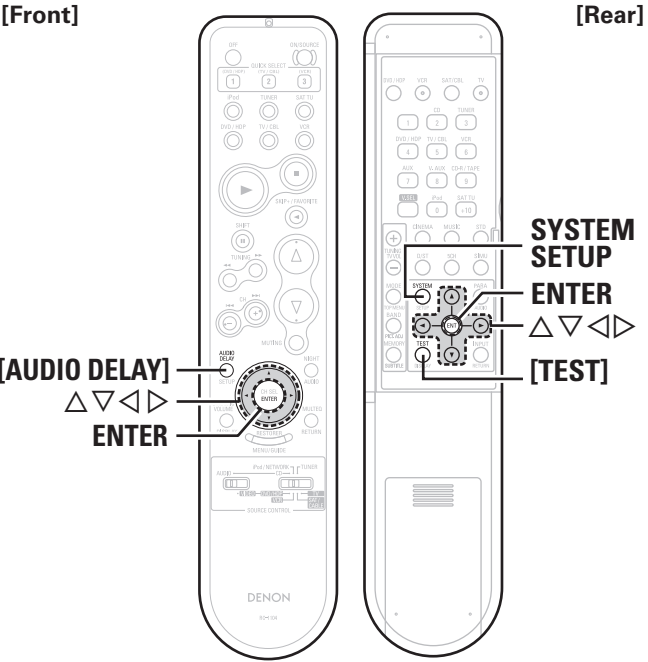
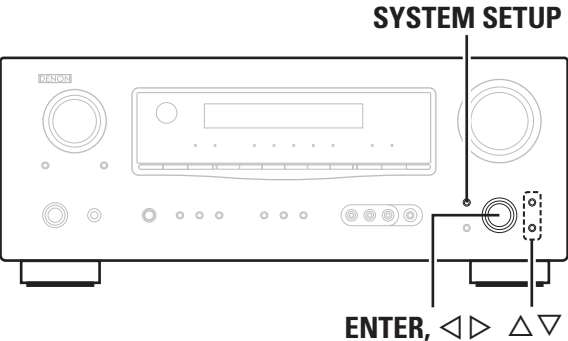
Select "Retry" to make the measurements again.

NOTE

Be sure to turn the power off before checking speaker connections.

System Setup

Symbols used to indicate buttons in this manual
Button located on both the main unit and the remote control unit → **BUTTON**
Button only on the main unit → **<BUTTON>**
Button only on the remote control unit → **[BUTTON]**



Make detail settings for various parameters.

System Setup Operation

The same operation is possible on the main unit or remote control unit.

- 1 Press **SYSTEM SETUP**.**
"System Setup" is displayed.
- 2 Press **ENTER**.**
Three setup menu categories are displayed.
"1. Sp" : Speaker Setup
"2. In" : Input Setup
"3. Op" : Option Setup
• The cursor of the item number selected blinks.
• For details of the items to be set in each item, see "Menu Map" (page 14).
- 3 Press **<>** to select the item you want to set, then press **ENTER**.**
The detailed setup menu for each item is displayed.
- 4 Press **<>** to select the item you want to change, then press **<>** to change the setting.**
- 5 Press **ENTER** or **<>** to confirm the next settings.**

- ☐ **To move to a setup item of another category**
Press **SYSTEM SETUP**.
 - Returns to the setup menu.
 - Perform steps 3 and 4.
- ☐ **To exit setup**
Press **SYSTEM SETUP** while the setup menu is displayed.
 - The display returns to normal.

1

*System Setup

2

1.Sp 2.In 3.Op

3

Speaker Setup

4

1 Front :Large

Example of Display of Default Values

In lists of selectable items or adjustable ranges, the item surrounded by a border is the default value.

[Selectable items]

Large

Small

1. Speaker Setup

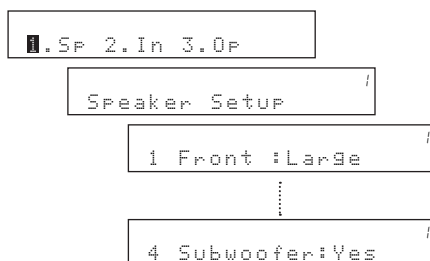
Use this procedure to set the speakers manually or if you wish to change the settings made with the auto setup procedure.

- 1 ~ 4 **Speaker Configuration**
- 5 **Subwoofer Mode Setup**
- 6 ~ 11 **Distance**
- 12 ~ 16 **Crossover Frequency**
- 17 **Test Tone**
- 18 **Restore**

1 ~ 4 Speaker Configuration

Select speaker configuration and size.
(bass reproduction capability)

[Display]



1 Front Speaker

Select front speaker size.

[Selectable items] **Large** **Small**

2 Center Speaker

Select center speaker use and size.

[Selectable items] **Large** **Small** **None**

3 Surround Speaker

Select surround speakers use and size.

[Selectable items] **Large** **Small** **None**

4 Subwoofer

Select subwoofer use.

[Selectable items] **Yes** **No**

Large :Select this when using large speakers with ample low frequency reproduction capabilities.

Small :Select this when using small speakers without ample low frequency reproduction capabilities.

None :Select this when no speaker is connected.

Yes :Select this when a subwoofer is connected.

No :Select this when no subwoofer is connected.

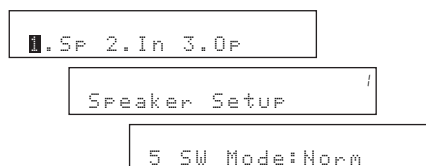


- Select "Large" or "Small" not according to the physical size of the speaker but according to the low frequency reproduction capabilities based on the frequency set at "Crossover Frequency" (page 20).
- When "Front Speaker" is set to "Small", "Subwoofer" is automatically set to "Yes".
- If "Subwoofer" is set to "No", "Front Speaker" is automatically set to "Large".
- When "Front Speaker" is set to "Small", "Center Speaker" and "Surround Speaker" can not be set to "Large".

5 Subwoofer Mode Setup

Select low range signal to be reproduced by subwoofer.

[Display]



[Selectable items]

Norm : Play low range and LFE signal of channels set to "Small".

+Main : Play low range and LFE signal of all channels.

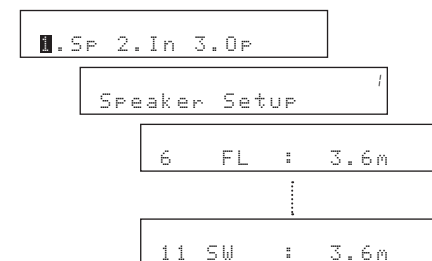


- This can be set when "System Setup" – "Speaker Setup" – "Subwoofer" is set to "Yes".
- Play music or a movie source and select the mode offering the strongest bass.
- Select "+Main" if you want the bass signals to always be produced from the subwoofer.

6 ~ 11 Distance

Set distance from listening position to speakers.
Before making the settings, measure the distance from the listening position to the different speakers.

[Display]



Distance measurement

Select the speaker you want to set, then set the distance.
Set the value closest to the measured distance.

[Variable range]

0.0m ~ 18.0m : Settable in units of 0.1 meters.

Default setting :

- FL / FR / C / SW3.6 m
- SL / SR3.0 m

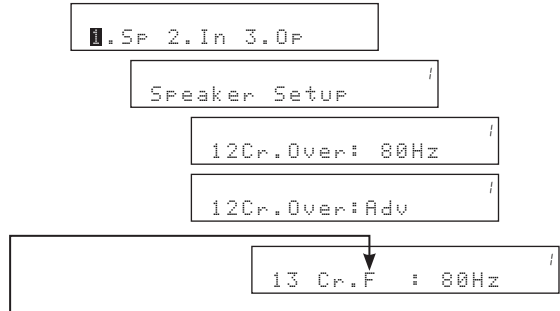
NOTE

Set the distance between the listening position and the various speakers to no more than 6.0 meters.

12 ~ 16 Crossover Frequency

Select crossover frequency from which subwoofer handles low range signal.

[Display]



F : Front, C : Center, S : Surround, LFE : LFE are displayed.
Only the portion of the bass sound of the various speakers output from the subwoofer that has a frequency below the frequency set here is output.
Set this according to the low frequency reproduction capabilities of the speakers you are using.

[Selectable items]

- 40Hz 60Hz 80Hz 90Hz 100Hz 110Hz 120Hz 150Hz
- 200Hz 250Hz :

Set the Crossover Frequency of all speakers as one.

Advanced :

Set the Crossover Frequency separately for the different speakers.

- ① When “Cr.Over:Adv” is displayed, press **ENTER** or **▽**.
- ② Press **◀▶** to set the crossover frequency of each speaker.
The preset speaker changes each time you press **▽**.

[Selectable items]

- 40Hz 60Hz 80Hz 90Hz 100Hz 110Hz 120Hz 150Hz
- 200Hz 250Hz :

※ In the case of “LFE”, there are 8 modes: 80Hz, 90Hz, 100Hz, 110Hz, 120Hz, 150Hz, 200Hz, 250Hz.

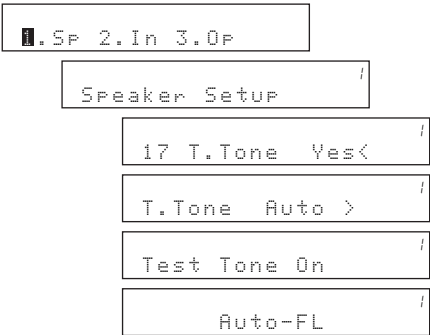


- If in the “Advanced” settings, “Subwoofer Mode Setup” (🔍 page 19) in the “System Setup” is set to “Norm”, it is possible to make this setting for speakers set to “Small” at “Speaker Configuration”. If set to “+Main”, this setting can be made regardless of the speaker size.
- For speakers set to “Small”, sound below the crossover frequency is cut from the sound output. The cut bass sound is output from the subwoofer or front speakers.
- Always set the crossover frequency to “80Hz”. When using small speakers, however, we recommend setting the crossover frequency to a higher frequency.

17 Test Tone

Adjust channel levels to obtain equal volume from all speakers.

[Display]



Test Tone

Select test tone playback method.

[Selectable items]

- Auto** :Automatically switch speaker from which test tone is output.
- Manual** : Manually switch speaker from which test tone is output.

Test Tone Start

Press **◀** to select “Yes”, then press **◀▶** to select “Auto” or “Manual”.
Then press **▽**. Out put the test tone.

- Auto** : Press **◀▶** to adjust the volume.
- Manual** : Press **△▽** to select the speaker, then press **◀▶** to adjust the volume.

When the adjustments are completed, press **ENTER** to finish the test tone.

[Variable range] **-12dB** ~ **0dB** ~ **+12dB**



Operating from the remote control unit

Adjusting with the remote control unit using the test tones is only possible in the “Auto” mode and only effective in the STANDARD mode. The adjusted levels for the different modes are automatically stored in the memory.

[Adjusting using test tones]

- ① Press **[TEST]**.
Test tones are output from the various speakers.
- ② Use **◀▶** to adjust so that the volume is equal for all speakers.
- ③ When the adjustments are completed, press **[TEST]**.



- Speakers set to “None” in the Speaker Configuration settings are not displayed.
- When “Channel Level” is adjusted, the adjusted values are set for all the surround modes.

18 Restore

After the Auto Setup measurements, it is possible to return those settings to the Auto Setup measurement results after changing the speaker settings (speaker configuration, distance, channel level and crossover frequency) with “System Setup” – “Speaker Setup”.

Press **◀** to start.

[Display]



2. Input Setup

Use this procedure to select the input source and make the settings related to playing input sources.

- 1, 2 HDMI In Assign
- 3 ~ 6 Digital In Assign
- 7 iPod Assign
- 8 Audio Delay
- 9 EXT. IN Subwoofer Level
- 10 Auto Preset Memory

1, 2 HDMI In Assign

Select HDMI connector to assign to this source.

[Display]



[Input terminals] **HDMI1** **HDMI2**

[Assignable input sources]

DVD/HDP *1 **TV/CBL** *2 **VCR** **V.AUX** **OFF**

*1 : "DVD" is displayed.

*2 : "TV" is displayed.

Input terminals	1 HDMI1	2 HDMI2
Default setting	DVD/HDP	TV/CBL

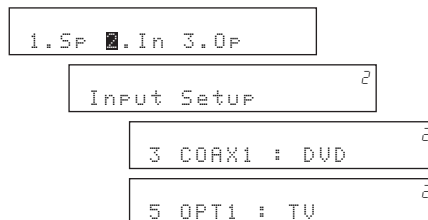


- With HDMI, the video and audio signals are transferred simultaneously. (The HDMI audio signal is output from the monitor.) At this time, set the input mode to "Auto".
- The audio signals input from the analog, digital and EXT. IN connectors are not output to the monitor.

3 ~ 6 Digital In Assign

Select digital input connector to assign to this source.

[Display]



[Input terminals] **COAX1** **COAX2** **OPT1** **OPT2**

[Assignable input sources]

CD **AUX** **CDR** **DVD/HDP** *1 **TV/CBL** *2 **VCR** **V.AUX**
OFF

*1 : "DVD" is displayed.

*2 : "TV" is displayed.

Input terminals	3 COAXIAL1	4 COAXIAL2	5 OPTICAL1	6 OPTICAL2
Default setting	DVD/HDP	CD	TV/CBL	VCR

7 iPod Assign

Assign control dock for iPod to this source.

[Display]



[Assignable input sources]

CD **AUX** **CDR** **DVD/HDP** *1 **TV/CBL** *2 **VCR** **V.AUX**
OFF

*1 : "DVD" is displayed.

*2 : "TV" is displayed.

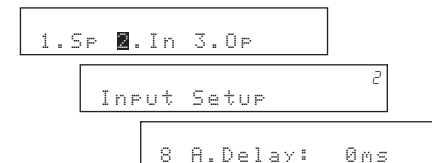


With the default settings, the control dock for iPod can be used connected to the VCR (iPod) connector.

8 Audio Delay

Compensate for mismatched timing between video and audio.

[Display]



Delay audio.

This sets the delay time for audio signals.

[Variable range] **0 ms** ~ **200 ms**

With a movie source, for example, adjust so that the movement of the actors' lips is synchronized with the sound.



Operating from the remote control unit

Press **[AUDIO DELAY]**.

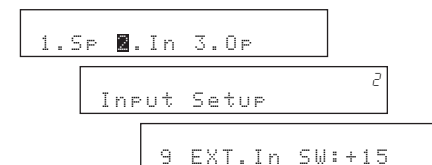


- This cannot be adjusted when playing in the EXT. IN, DIRECT or STEREO mode (with "Front Speaker" set to "Large", "Tone Control" to "OFF" and "MultEQ" to "OFF").
- Store each input source.

9 EXT. IN Subwoofer Level

Set the subwoofer level for playback.
Select according to the player in use.

[Display]



[Selectable items]

0dB **+5dB** **+10dB** :

Select according to the player in use.

+15dB :

This is the recommended level.

10 Auto Preset Memory

Use the auto preset function to program radio stations.

Press $\triangleleft$ to start.

- “CH” blinks on the display and searching begins.
- “Completed” appears once searching is completed.

[Display]

1.SP 2.In 3.OP
Input Setup²
10 Preset <Start²



If an FM station cannot be preset automatically, select the desired station by tuning it in manually, then preset it manually.

NOTE

“Auto Preset Memory” is displayed when the input source is “FM” and “AM”.

3. Option Setup

Make various other settings.

- 1 ~ 3 Volume Control
- 4 Auto Surround Mode
- 5 Direct Mode Setup
- 6 Remote ID Setup

1 ~ 3 Volume Control

Set the main zone volume setting.

[Display]

1.SP 2.In 3.OP
Option Setup³
1 Limit : OFF³
2 P.On : Last³
3 Mute : Full³

1 Volume Limit

Make a setting for maximum volume.

[Selectable items]

- OFF** : Do not set a maximum volume.
- 20dB** : Set the maximum volume to -20 dB.
- 10dB** : Set the maximum volume to -10 dB.
- 0dB** : Set the maximum volume to 0 dB.

2 Power On Level

This sets the volume set when the main zone's power is turned on.

[Selectable items]

- Last** : Use the memorized setting from the last session.
- : Always use the muting on condition when power is turned on.

[Variable range]

- 80dB ~ +18dB** : Set the volume level when the power is turned on in units of 1 dB.

※ The variable level when upper limit has been set with “Volume Limit” is “-80 dB ~ the set volume level”.

3 Mute Level

This sets the amount of attenuation of the volume when the mute mode is set in the main zone.

[Selectable items]

- Full** : The sound is cut off entirely.
- 40dB** : The sound is attenuated by 40 dB.
- 20dB** : The sound is attenuated by 20 dB.

4 Auto Surround Mode

Make setting for memorizing surround mode setting for each input signal type.

[Display]

1.SP 2.In 3.OP
Option Setup³
4 AutoSurr.: ON³

[Selectable items]

- ON** : Memorize settings. Most recently stored surround mode is automatically selected.
- 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 surround mode last used for playing the three types of input signals listed below.

- ① Analog and PCM 2-channel signals (STEREO)
- ② 2-channel signals of Dolby Digital, DTS or other multi-channel format (DOLBY PLII Cinema)
- ③ Multi-channel signals of Dolby Digital, DTS or other multi-channel format (DOLBY/DTS SURROUND)

※ Default settings are indicated in ().

5 Direct Mode Setup

Select MultEQ use for DIRECT mode playback.

[Display]

1.SP 2.In 3.OP
Option Setup³
5 Direct : OFF³

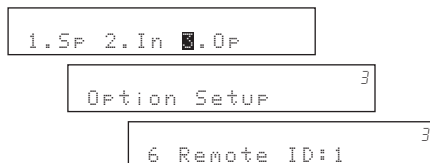
[Selectable items]

- ON** : Use MultEQ.
- OFF** : Do not use MultEQ.

6 Remote ID Setup

Set remote control ID.

[Display]



[Selectable items]



NOTE

When using the AVR-1509 with only the included remote control unit (RC-1104), there is no need to make settings.

When using a separately sold remote control unit (RC-7000CI, etc.), this function can be used. Match the ID setting of the remote control unit and the receiver.

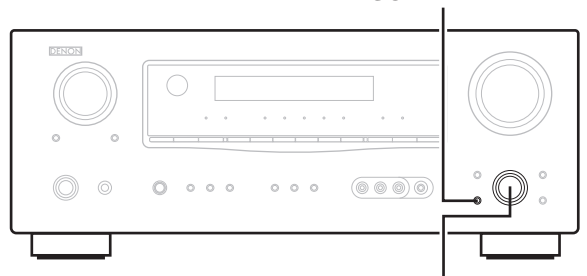
Surround Modes



Symbols used to indicate buttons in this manual

- Button located on both the main unit and the remote control unit → **BUTTON**
- Button only on the main unit → **<BUTTON>**
- Button only on the remote control unit → **[BUTTON]**

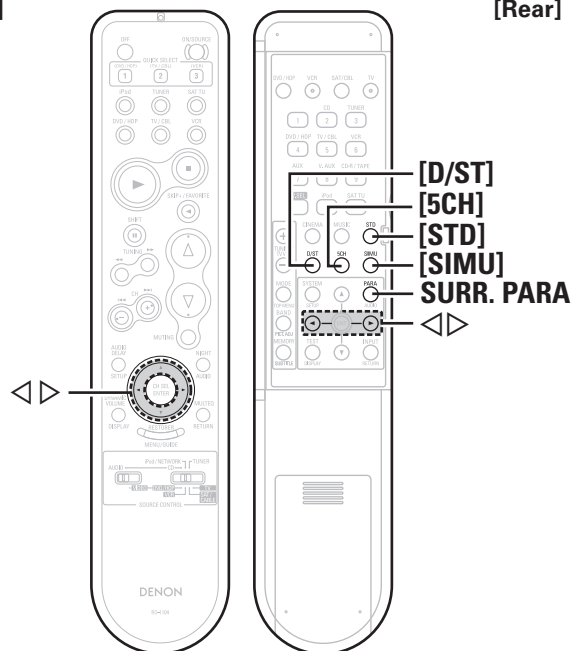
SURR. PARA



<SELECT/ENTER>, **◀▶**

[Front]

[Rear]



1 Standard Playback

This is the mode for enjoying surround sound according to the program source.

Surround Playback of 2-channel Sources

Selecting the surround mode

Select by turning **<SELECT/ENTER>** or pressing **[STD]**.

[Selectable items]

DOLBY PLII : The signals are decoded in DOLBY PLII for playback.

DTS NEO:6 : The signals are decoded in DTS NEO:6 for playback.

Select the mode to suit the source

Press **SURR. PARA**. Display "Mode" and select your desired mode using **◀▶**.

☐ DOLBY PLII

Cinema : This mode is suited for movie sources.

Music : This mode is suited for music sources.

Game : This mode is suited for games.

PL : This is the Pro Logic playback mode.
When this mode is selected, "DOLBY PL" is displayed.

☐ DTS NEO:6

Cinema : This mode is suited for movie sources.

Music : This mode is suited for music sources.



Select the "Cinema", "Music", "Game" and "PL" modes at "Surround Parameter" – "Mode" (page 26).

Playing Multi-channel Sources (Dolby Digital, DTS, etc.)

In the case of standard playback of multi channel sources, the AVR-1509 recognizes the format of the multi-channel audio input signal and automatically operates the appropriate decoder for surround sound.

[Selectable items]

STANDARD :

Any of the surround modes in the “Display” column in the following table.

The mode changes depending upon factors such as the

- Input signal is being used.

Input signal		Display
Dolby Digital Source	DOLBY DIGITAL (other than 2ch)	DOLBY DIGITAL
DTS Surround Source	DTS (5.1ch) / DTS 96/24	DTS SURROUND
		DTS 96/24 (*)

* : This is displayed when the input signal is “DTS 96/24”.



- For details, see page 45.
- To select these surround modes using **<SELECT/ENTER>** or press **[STD]**.

② DSP Simulation Playback

The desired mode according to the program source and viewing situation can be selected from among 7 **DENON original surround modes**.

The surround parameters can be adjusted (page 43, 44) to achieve an even more realistic, powerful sound field.

Selecting the surround mode

Select by turning **<SELECT/ENTER>** or pressing **[SIMU]**.

[Selectable items]

- 5CH STEREO** *1 : This mode is for enjoying stereo sound from all speakers.
- ROCK ARENA** : This mode is for enjoying the atmosphere of a live concert in an arena.
- JAZZ CLUB** : This mode is for enjoying the atmosphere of a live concert in a jazz club.
- MONO MOVIE** *2 : This mode is for playing monaural movie sources with surround sound.
- VIDEO GAME** : This mode is suited for achieving surround sound with video games.
- MATRIX** : This mode lets you add a sense of expansion to stereo music sources.
- VIRTUAL** : This mode is for enjoying surround effects using only the front speakers or headphones.

*1 : Can also be selected by pressing **[5CH]**.

*2 : When playing sources recorded in monaural in the MONO MOVIE mode, the sound will be off balance with a single channel (left or right), so input to both channels.



Depending on the program source being played, it may not be possible to achieve a satisfactory surround effect. In this case, try other modes to achieve a sound field suited to your tastes.

③ Direct Playback

Selecting the mode

Select by turning **<SELECT/ENTER>** or pressing **[D/ST]**.

[Selectable items]

DIRECT :

In this mode the signals bypass the tone adjustment circuitry for high quality sound.

The sound is output to the same channels as the input signal.

Input signal	Display
Analog signal / PCM (2ch) / Dolby Digital source / DTS source / Other 2-channel digital signals	DIRECT



For details, see page 45.

④ Stereo Playback

Selecting the mode

Select by turning **<SELECT/ENTER>** or pressing **[D/ST]**.

[Selectable items]

STEREO :

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.

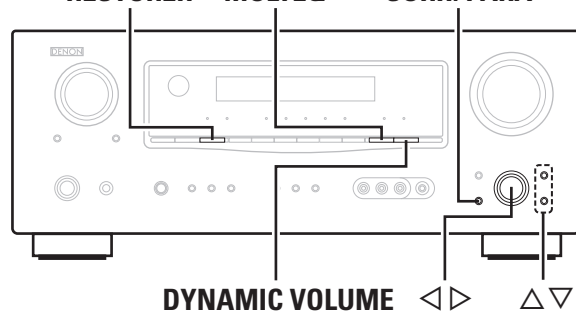
Parameter



Symbols used to indicate buttons in this manual

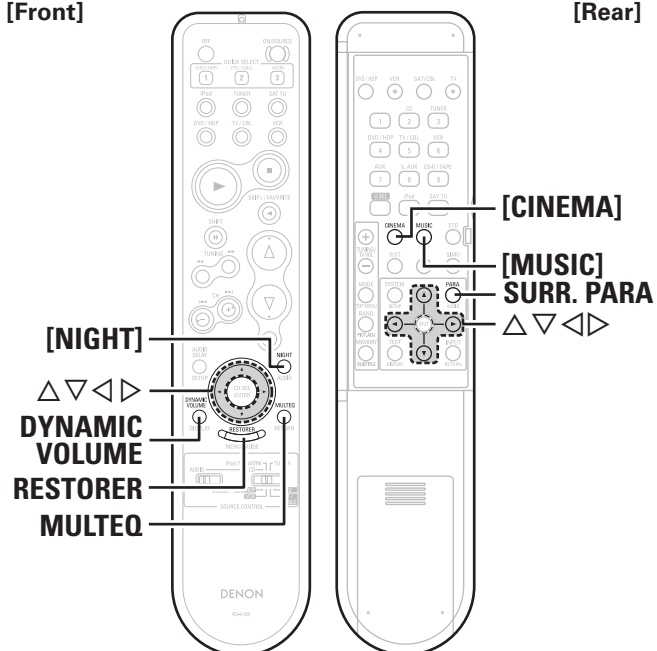
- Button located on both the main unit and the remote control unit → **BUTTON**
 Button only on the main unit → **<BUTTON>**
 Button only on the remote control unit → **[BUTTON]**

RESTORER MULTEQ SURR. PARA



[Front]

[Rear]



Adjusting the Parameters

1 Press **SURR. PARA.**

Parameter is displayed.

2 Use Δ ∇ to select which parameters to adjust.

Only those parameters which can be adjusted under the current playback status are displayed.

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

Repeat steps 2 and 3 to set each parameter.

❑ To exit adjustment

- Press **SURR. PARA** during adjustment.
- If no adjustment is made for a period of about 5 seconds, the adjustments made up to that point are registered and the AVR-1509 returns to the original mode.

Surround Parameter

Adjust surround sound parameters.

The parameters (items) which can be adjusted differ depending upon the following conditions.

- Whether an input signal is present (when playing) or not (when stopped, etc.).
- The type of input signal
- The type of surround mode

For details of which parameters can be adjusted in each surround mode, see "Surround Modes and Parameters" (page 43, 44).

- 1 Mode
- 2 Cinema EQ
- 3 D. Comp (Dynamic Range Compression)
- 4 LFE
- 5 Center Image
- 6 Panorama
- 7 Dimension
- 8 Center Width
- 9 Delay Time
- 10 Effect Level
- 11 Room Size
- 12 SW ATT (Subwoofer Attenuation)
- 13 Subwoofer
- 14 Tone Control
- 15 Bass
- 16 Treble
- 17 MultEQ
- 18 Dynamic EQ
- 19 Dynamic Volume
- 20 DV Setting (Dynamic Volume Setting)
- 21 RESTORER
- 22 Night Mode
- 23 Default

1 Mode

Select the mode to match the source (cinema source, music source, etc.).

☐ In the PLII mode

[Selectable items]

- Cinema** : This is the mode for cinema source.
- Music** : This is the mode for music source.
- Game** : This is the mode for game source.
- PL** : Dolby Pro Logic playback mode.
(This is the mode for 4-channel playback (front L, front R, center, surround (MONO)).)

☐ In the DTS NEO:6 mode

[Selectable items]

- Cinema** : This is the mode for cinema source.
- Music** : This is the mode for music source.

 Operating from the remote control unit

You can operate “Cinema” mode or “Music” mode with the remote control unit.
Press **[CINEMA]** or **[MUSIC]**.



The “Music” mode is also effective for movie sources including a lot of stereo music.

2 Cinema EQ

Soften the treble range of movie soundtracks for better understanding.

[Selectable items]

- ON** : “Cinema EQ” is used.
- OFF** : “Cinema EQ” is not used.

3 D. Comp (Dynamic Range Compression)

Compress dynamic range (difference between loud and soft sounds).

[Selectable items]

- OFF** : Turn dynamic range compression off.
- Low** : Low setting.
- Mid** : Middle setting.
- High** : High setting.



When playing DTS sources, this is only displayed for compatible software.

4 LFE

Adjust the low-frequency effects level (LFE).

[Variable range] **-10dB** ~ **0dB**



For proper playback of the different program sources, we recommend setting to the values below.

- Dolby Digital sources: “0 dB”
- DTS movie sources: “0 dB”
- DTS music sources: “-10 dB”

5 Center Image

Assign center channel signal to front left and right channels for wider sound.

[Variable range] **0.0** ~ **0.3** ~ **1.0**

6 Panorama

Assign front L/R signal also to surround channels, for wider sound. If the surround effect seems weak, set “Panorama” to “ON”.

[Selectable items] **ON** **OFF**

7 Dimension

Shift sound image center to front or rear, to adjust playback balance.

[Variable range] **0** ~ **3** ~ **6**

8 Center Width

Assign center channel signal to front left and right channels for wider sound.

[Variable range] **0** ~ **3** ~ **7**

9 Delay Time

Adjust delay time to control sound stage size.

[Variable range] **0 ms** ~ **30 ms** ~ **110 ms**

10 Effect Level

Adjust the strength of the surround effect.

[Variable range] **1** ~ **10** ~ **15**



Set to a lower level if the positioning and sense of phase of the surround signals seems unnatural.

11 Room Size

Determine size of acoustic environment.

[Selectable items]

- Small** : Simulate acoustics of a small room.
- Med-S** : Simulate acoustics of a medium-small room.
- Med** : Simulate acoustics of a medium room.
- Med-L** : Simulate acoustics of a medium-large room.
- Large** : Simulate acoustics of a large room.

NOTE

“Room Size” does not indicate the size of the room in which sources are played.

12 SW ATT (Subwoofer Attenuation)

Attenuate subwoofer level when using EXT. IN mode.

[Selectable items]

- ON** : The input from the subwoofer channel is attenuated.
- OFF** : The input from the subwoofer channel is not attenuated. Usually use in this mode.



Set this to "ON" if the subwoofer channel level seems too high when playing audio signal.

13 Subwoofer

Turn subwoofer output on and off.

[Selectable items]

- ON** : The subwoofer is used.
- OFF** : The subwoofer is not used.

14 Tone Control

Turn tone adjustments on and off.

[Selectable items]

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



The tone cannot be adjusted when in the DIRECT mode.

NOTE

When the "Dynamic EQ" setting is "ON", setting is not possible.

15 Bass

Adjust low frequency range (bass).

[Variable range] **-6dB** ~ **0dB** ~ **+6dB**

16 Treble

Adjust high frequency range (treble).

[Variable range] **-6dB** ~ **0dB** ~ **+6dB**



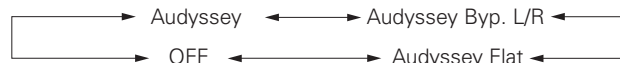
"Bass" and "Treble" can be set when "Tone Control" is set to "ON".

17 MultEQ

Select the type of correction desired from the following list:

[Selectable items]

- Audyssey** : Optimize frequency response of all speakers.
- Byp. L/R** : Optimize frequency response of speakers except front L and R speakers.
- Flat** : Optimize frequency response of all speakers to flat response.
- OFF** : Turn equalizer off.



Operating from the main unit or remote control unit

Press **MULTEQ**.

- When "Audyssey", "Audyssey Byp. L/R" or "Audyssey Flat" is selected, the Audyssey MultEQ indicator lights green.
- After running Auto Setup, if the Speaker Configuration, Distance, Channel Level and Crossover Frequency have changed without increasing the number of speakers measured, the Audyssey MultEQ indicator lights red.

NOTE

- "MultEQ" can only be set when Auto Setup has been performed.
- "MultEQ" cannot be set in the following situations.
 - If "Auto Setup" fails to be completed.
 - After running Auto Setup, when the number of used speakers has increased from the number of measured speakers.



- If the settings of speakers for which "None" has been determined at "Auto Setup" are changed, "Audyssey", "Audyssey Byp. L/R" and "Audyssey Flat" cannot be selected. Either perform Auto Setup again, or return to the setting after running Auto Setup with "System Setup" – "Speaker Setup" – "Restore".
- When using headphones, "MultEQ" is set to "OFF".

18 Dynamic EQ

Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Audyssey Dynamic EQ works in tandem with Audyssey MultEQ to provide well-balanced sound for every listener at any volume level.

NOTE

- "Dynamic EQ" can only be set when auto setup has been performed.
- "Dynamic EQ" cannot be set in the following situations.
 - If "Auto Setup" fails to be completed.
 - After running Auto Setup, when the number of used speakers has increased from the number of measured speakers.
- When "MultEQ" is set to "OFF", "Dynamic EQ" is automatically set to "OFF".
- "Night Mode" and "Tone Control" cannot be used jointly.

[Selectable items]

- ON** : Use Dynamic EQ function.
- OFF** : Do not use Dynamic EQ function.



Operating from the main unit or remote control unit

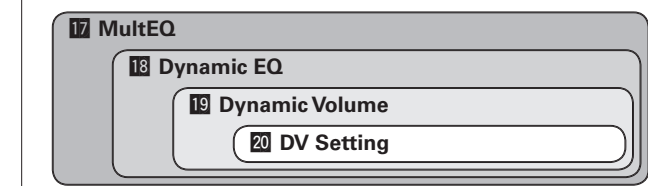
Press **DYNAMIC VOLUME**.



Before running Auto Setup and after running Auto Setup, if the number of speakers has increased or you pressed **DYNAMIC VOLUME**, "Run Audyssey" is displayed. In this case, either perform Auto Setup again, or return to the setting after running Auto Setup with "System Setup" – "Speaker Setup" – "Restore".

Operating conditions for each function

- Dynamic EQ** : When "MultEQ" is set to "ON"
- Dynamic Volume** : When "Dynamic EQ" is set to "ON"
- DV setting** : When "Dynamic Volume" is set to "ON"



19 Dynamic Volume

Audyssey Dynamic Volume solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies. Audyssey Dynamic EQ is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression, and dialog clarity remain the same.

NOTE

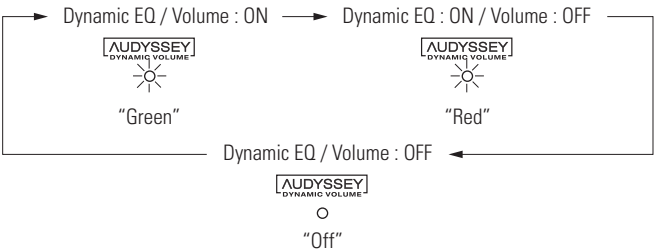
- “Dynamic Volume” can only be set when auto setup has been performed.
- “Dynamic Volume” cannot be set in the following situations.
 - If “Auto Setup” fails to be completed.
 - After running Auto Setup, when the number of used speakers has increased from the number of measured speakers.
- When “MultEQ” is set to “OFF”, “Dynamic Volume” is automatically set to “OFF”.
- “Night Mode” and “Tone Control” cannot be used jointly.

[Selectable items]

- ON** : Use Dynamic Volume.
The Dynamic Volume effect will be at the level of the “DV Setting”.
- OFF** : Do not use Dynamic Volume.

Operating from the main unit or remote control unit

Press **DYNAMIC VOLUME**.



Before running Auto Setup and after running Auto Setup, if the number of speakers has increased or you pressed **DYNAMIC VOLUME**, “Run Audyssey” is displayed. In this case, either perform Auto Setup again, or return to the setting after running Auto Setup with “System Setup” – “Speaker Setup” – “Restore”.

20 DV Setting (Dynamic Volume Setting)

Set Dynamic Volume effect.

[Selectable items]

- Midnight** : High setting affects volume the most, causing all sounds to be of equal loudness.
- Evening** : Middle setting prevents loud and soft sounds from being much louder and softer respectively than average sounds.
- Day** : Low setting provides the least adjustments to the loudest and softest of sounds.

NOTE

- “DV Setting” can only be set when auto setup has been performed.
- “DV Setting” cannot be set in the following situations.
 - If “Auto Setup” fails to be completed.
 - After running Auto Setup, when the number of used speakers has increased from the number of measured speakers.
- If “Dynamic Volume” setting is “OFF”.

About Dynamic EQ

Audyssey Dynamic EQ™ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Dynamic EQ selects the correct frequency response and surround levels moment-by-moment at any user-selected volume setting. The result is bass response, tonal balance, and surround impression that remain constant despite changes in volume. Dynamic EQ combines information from incoming source levels with actual output sound levels in the room, a prerequisite for delivering a loudness correction solution. Audyssey Dynamic EQ works in tandem with Audyssey MultEQ to provide well-balanced sound for every listener at any volume level.

About Dynamic Volume

Audyssey Dynamic Volume™ solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies. Dynamic Volume looks at the preferred volume setting by the user and then monitors how the volume of program material is being perceived by listeners in real time to decide whether an adjustment is needed. Whenever necessary, Dynamic Volume makes the necessary rapid or gradual adjustments to maintain the desired playback volume level while optimizing the dynamic range. Audyssey Dynamic EQ is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression, and dialog clarity remain the same whether watching movies, flipping between television channels, or changing from stereo to surround sound content.

21 RESTORER

This function restores compressed audio signals to how they were before compression and corrects the sense of volume of the bass and treble to obtain richer playback sound.

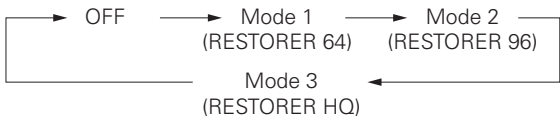
[Selectable items]

- OFF** :
Do not use RESTORER.
- Mode1** (RESTORER 64):
Optimized mode for compressed sources with very weak highs.
- Mode2** (RESTORER 96):
Apply suitable bass and treble boost for all compressed sources.
- Mode3** (RESTORER HQ):
Optimized mode for compressed sources with normal highs.

The default setting for “iPod” is “Mode3”. All others are set to “OFF”.

Operating from the main unit or remote control unit

Press **RESTORER**.



About the RESTORER function

- Such compressed audio formats 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.
- This is displayed on the “Surround Parameter” and can be set when the analog signals (including AM/FM signals) or PCM signals (fs = 44.1/48 kHz) are input.

22 Night Mode

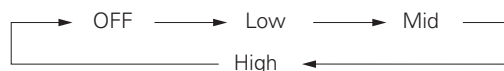
Optimized setting for late-night listening.
Set the dynamic range compression of the output audio.

[Selectable items]

- OFF** : Turn night mode off.
- Low** : Low setting.
- Mid** : Middle setting.
- High** : High setting.

Operating from the remote control unit

Press **[NIGHT]**.



NOTE

- When the “Dynamic EQ” setting is “ON”, setting is not possible.
- When the “Dynamic Volume” setting is “ON”, setting is not possible.

23 Default

Resets the settings to the default values.

[Selectable items]

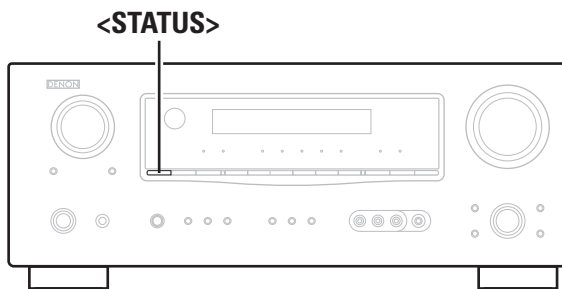
- Yes** : Reset.
- No** : Do not reset.

Information



Symbols used to indicate buttons in this manual

- Button located on both the main unit and the remote control unit → **BUTTON**
- Button only on the main unit → **<BUTTON>**
- Button only on the remote control unit → **[BUTTON]**



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]

- Surround Mode
- Input signal
- Dialogue normalization
- Input function
- Input digital terminal
- Audio Delay
- Tone Control
- Channel level of each speaker
- Cinema EQ
- Night Mode

etc.

Dialogue normalization function

This is automatically activated when playing Dolby Digital sources.
This function automatically corrects the standard signal level for individual program sources.
The correction value can be checked using **<STATUS>**.

OFFSET -4dB

The figure is the correction value when the standard level is corrected.



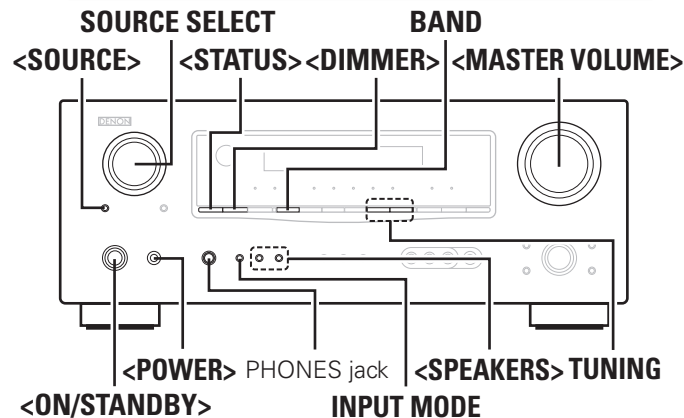
- The items displayed will differ depending upon the current settings, the presence or absence of an input signal or the type of input signal, etc.
- For details of the content of the items displayed, refer to the page containing an explanation of the settings.

Playback



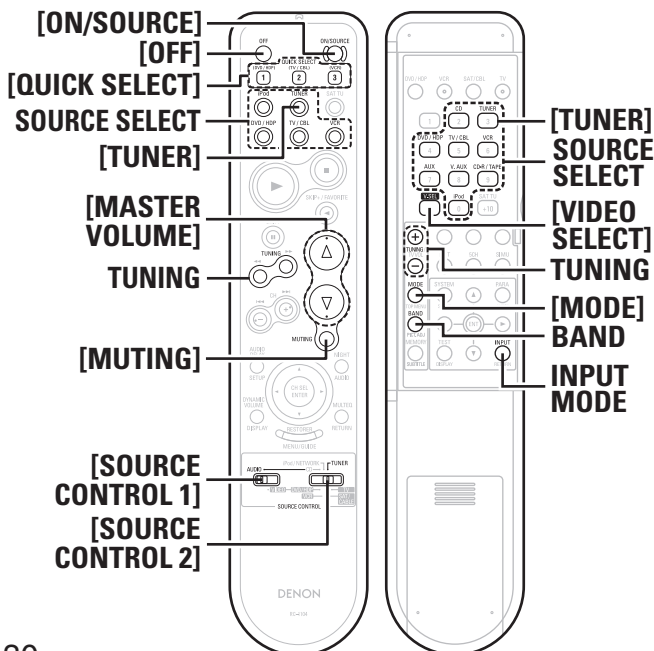
Symbols used to indicate buttons in this manual

- Button located on both the main unit and the remote control unit → **BUTTON**
 Button only on the main unit → **<BUTTON>**
 Button only on the remote control unit → **[BUTTON]**



[Front]

[Rear]



Preparations

Turning the Power On

1 Press <POWER>.

The power indicator lights red and the power is set to the standby mode.

2 Press <ON/STANDBY> or [ON/SOURCE].

The power indicator flashes green and the power turns on.

※ Also press **[SOURCE SELECT]** when in standby mode, the power turns on. In this case the input source is selected by remote control unit.

※ Also press **[QUICK SELECT]** when in standby mode, the power turns on. In this case Quick Select is selected by remote control unit (page 37).

Turning the Power Off

① Press <ON/STANDBY> or [OFF].

The power is set to the standby mode.

② Press <POWER>.

The power indicator turns off, and so does the power.

NOTE

Power continues to be supplied to some of the circuitry even when the power is in the standby mode. When leaving home for long periods of time or when traveling, either press <POWER> to turn off the power, or unplug the power cord from the power outlet.

Selecting the Input Source

Select the source using SOURCE SELECT.

Turn <SOURCE SELECT> or press **[SOURCE SELECT]** to switch between input sources.



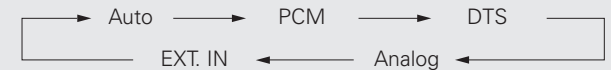
If "Rec Select" is selected for the input source, press <SOURCE> before turning <SOURCE SELECT>.

Setting the Input Mode

Set the input mode for this source.

Press INPUT MODE.

Each time you press the button, the input mode display will change.



[Selectable items]

- 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.
- Analog** : Play only signals from analog input.
- EXT. IN** : Play only signals from EXT. IN input.



- When a digital signal is properly input, the "DIGITAL" indicator lights on the display. If the "DIGITAL" indicator does not light, check the digital input connector assignment and the connections.
- The surround mode cannot be set if the input mode is set to "EXT. IN".
- Only set "PCM" and "DTS" when playing the respective signals.

Operations During Playback

Adjusting the Master Volume

Either turn **<MASTER VOLUME>** or press **[MASTER VOLUME]**.

[Variable range] --- -80.0dB ~ +18.0dB

NOTE

The adjustable range will differ depending upon factors such as the type of input signal and the channel level setting.

Turning Off the Sound Temporarily (Muting)

Press **[MUTING]**.



To cancel, press **[MUTING]** again. Muting can also be canceled by adjusting the master volume.

Listening with Headphones

Plug the headphones into the **PHONES** jack on the main unit.

The sound from the speakers and pre-out connectors is automatically cut.

NOTE

Be careful not to set the volume too high when using headphones.

Switching the front speakers

Press **<SPEAKERS>**.

Video Select Function

Switch video input source while listening to audio signal.

Press **[VIDEO SELECT]** until the desired picture appears.

※ To cancel, press **[VIDEO SELECT]** to select "SOURCE".

Checking the currently playing program source, etc.

Press **<STATUS>**.

The current program source and various settings are indicated on the display.

For details, refer to "Information" (page 29).

Switching the brightness of the display

Press **<DIMMER>**.



When setting to "OFF", the display brightness of the menu setting in operation changes to "Dark".

Playing Video and Audio Equipment

Basic Operation

1 Prepare the equipment.

- ① Load the DVD, CD or other software in the player.
(See the operating instructions of the respective devices.)
- ② To play a video device, switch the monitor input.
(See the monitor's operating instructions.)

2 Use **SOURCE SELECT** to select the input source.

3 Start playback. (See the operating instructions of the respective devices.)



The remote control unit can be used to operate external devices. See "Remote Control Unit Operations" (page 38).

Listening to FM/AM Broadcasts

Basic Operation

1 Either turn **<SOURCE SELECT>** or press **[TUNER]** to select "TUNER".

2 Set **[SOURCE CONTROL 1]** to "AUDIO" and **[SOURCE CONTROL 2]** to "TUNER". (See page 38 "Remote Control Unit Operations")

3 Press **BAND** to select "FM" or "AM".

4 Tune in the desired broadcast station.

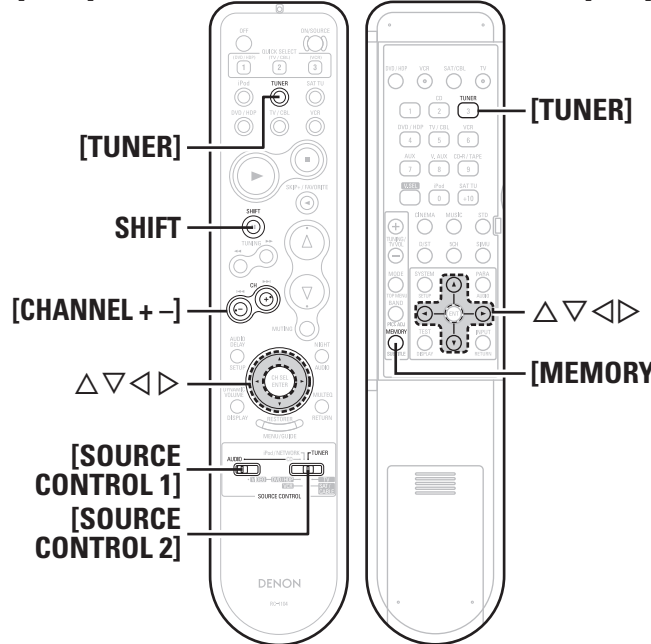
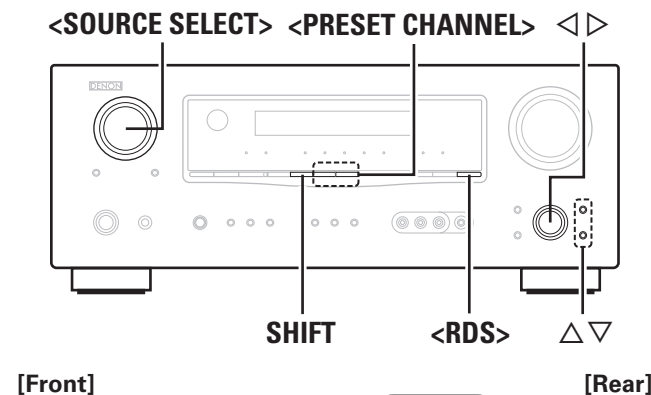
- ① **To tune in automatically (Auto Tuning)**
Press **[MODE]** to light the "AUTO" indicator on the display, then use **TUNING** to select the station you want to hear.
- ② **To tune in manually (Manual Tuning)**
Press **[MODE]** to turn off the display's "AUTO" indicator, then use **TUNING** to select 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** to change frequencies continuously.

Symbols used to indicate buttons in this manual

Button located on both the main unit and the remote control unit → **BUTTON**
 Button only on the main unit → **<BUTTON>**
 Button only on the remote control unit → **[BUTTON]**



Presetting Radio Stations (Preset Memory)

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

1 Tune in the broadcast station you want to preset.

2 Press **[MEMORY]**.

3 Press **SHIFT** to select the block (A to G) in which the station is to be preset.

4 Press **<PRESET CHANNEL>** or **[CHANNEL + -]** to select the preset number (1 to 8).

5 Press **[MEMORY]** again to complete the setting.



- To preset other stations, repeat steps 1 to 5.
- Stations can be preset automatically at "System Setup" – "Input Setup" – "Auto Preset Memory" (page 22).

NOTE

Preset stations are erased by overwriting them.

Listening to Preset Stations

1 Press **SHIFT** to select the memory block (A to G).

2 Press **<PRESET CHANNEL>** or **[CHANNEL + -]** to select the desired preset channel (1 to 8).

Default settings

Auto tuner presets	
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

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.

The following three types of RDS information can be received with this unit:

Program Type (PTY)

PTY identifies the type of RDS program.

The program types and their displays are as follows:

NEWS	News	WEATHER	Weather
AFFAIRS	Current Affairs	FINANCE	Finance
INFO	Information	CHILDREN	Children's programmes
SPORT	Sports	SOCIAL	Social Affairs
EDUCATE	Education	RELIGION	Religion
DRAMA	Drama	PHONE IN	Phone In
CULTURE	Culture	TRAVEL	Travel
SCIENCE	Science	LEISURE	Leisure
VARIED	Varied	JAZZ	Jazz Music
POP M	Pop Music	COUNTRY	Country Music
ROCK M	Rock Music	NATION M	National Music
EASY M	Easy Listening Music	OLDIES	Oldies Music
LIGHT M	Light Classical	FOLK M	Folk Music
CLASSICS	Serious Classical	DOCUMENT	Documentary
OTHER M	Other Music		

Traffic Program (TP)

TP identifies programs that carry traffic announcements.

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

Radio Text (RT)

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

NOTE

The operations described below using **<RDS>** will not function in areas in which there are no RDS broadcasts.

RDS Search

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

- 1** Either turn **<SOURCE SELECT>** or press **[TUNER]** to select **“TUNER”**.
- 2** Set **[SOURCE CONTROL 1]** to **“AUDIO”** and **[SOURCE CONTROL 2]** to **“TUNER”**.
( page 38 “Remote Control Unit Operations”)
- 3** Press **<RDS>** until **“RDS Search”** appears on the display.
- 4** Press **<PRESET CHANNEL>** or **[CHANNEL + -]**.
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.
- 5** To continue searching, repeat steps 3 and 4.
※ If no RDS station is found when all the frequencies have been searched, **“NO RDS”** is displayed.

PTY Search

Use this function to find RDS stations broadcasting a designated program type (PTY).
For a description of each program type, refer to “Program Type (PTY)”.

- 1** Either turn **<SOURCE SELECT>** or press **[TUNER]** to select **“TUNER”**.
- 2** Set **[SOURCE CONTROL 1]** to **“AUDIO”** and **[SOURCE CONTROL 2]** to **“TUNER”**.
( page 38 “Remote Control Unit Operations”)
- 3** Press **<RDS>** until **“PTY Search”** appears on the display.

- 4** Watching the display, press **△▽** to call out the desired program type.

- 5** Press **<PRESET CHANNEL>** or **[CHANNEL + -]**.
PTY search begins automatically.
※ 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.

- 6** To continue searching, repeat steps 3 and 5.
※ If no station broadcasting the designated program type is found when all the frequencies have been searched, **“NO PROGRAMME”** is displayed.

TP Search

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

- 1** Either turn **<SOURCE SELECT>** or press **[TUNER]** to select **“TUNER”**.
- 2** Set **[SOURCE CONTROL 1]** to **“AUDIO”** and **[SOURCE CONTROL 2]** to **“TUNER”**.
( page 38 “Remote Control Unit Operations”)
- 3** Press **<RDS>** until **“TP Search”** appears on the display.
- 4** Press **<PRESET 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.
- 5** To continue searching, repeat steps 3 and 4.
※ If no other TP station is found when all the frequencies have been searched, **“NO PROGRAMME”** is displayed.

RT (Radio Text)

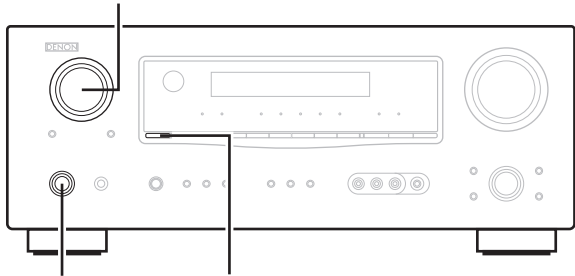
Turn the Radio Text (RT) display ON/OFF.

- 1** Either turn **<SOURCE SELECT>** or press **[TUNER]** to select **“TUNER”**.
- 2** Set **[SOURCE CONTROL 1]** to **“AUDIO”** and **[SOURCE CONTROL 2]** to **“TUNER”**.
( page 38 “Remote Control Unit Operations”)
- 3** Press **<RDS>** until **“RT”** appears on the display.
- 4** Press **◀▶** to set.
※ When the Radio Text (RT) display is set to **“ON”**:
While receiving an RDS broadcast station, the text data broadcast from the station is displayed.
※ When the Radio Text (RT) display is set to **“ON”**:
If no text data is being broadcast, **“NO TEXT DATA”** is displayed.
※ To turn off the radio text display, press **<RDS>** when radio text is displayed.

**Symbols used to indicate buttons in this manual**

Button located on both the main unit and the remote control unit → **BUTTON**
Button only on the main unit → **<BUTTON>**
Button only on the remote control unit → **[BUTTON]**

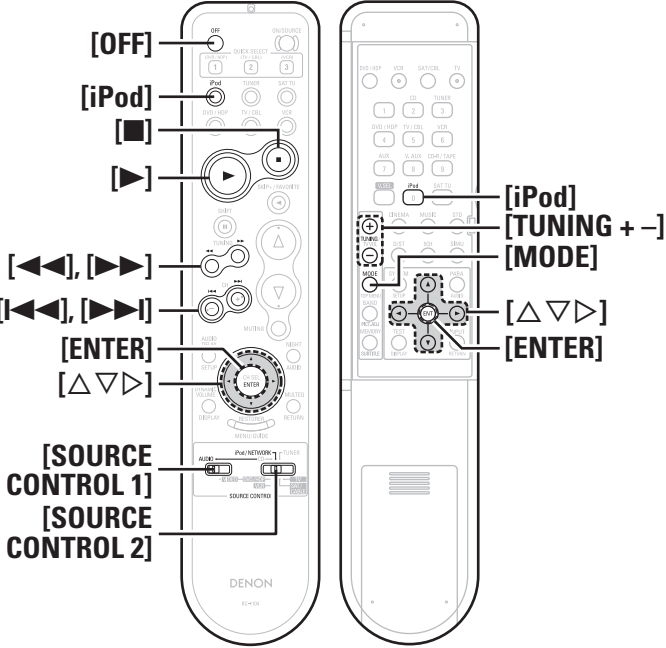
<SOURCE SELECT>



<ON/STANDBY> <STATUS>

[Front]

[Rear]



iPod® Playback

The music on an iPod can be played by using the control dock for iPod (ASD-1R, ASD-11R, ASD-3N or ASD-3W, sold separately). The operation can also be performed using the buttons on the remote control unit.

 iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

※ The iPod may only be used to copy or play contents that are not copyrighted or contents for which copying or playback is legally permitted for your private use as an individual. Be sure to comply with applicable copyright legislation.

Preparations

1 Make the necessary preparations.
① Set the iPod in the DENON control dock for iPod.
( See the control dock for iPod's operating instructions.)
② Assign the control dock for iPod's input.
The input for the control dock for iPod is assigned to VCR by default.

"System Setup" – "Input Setup" – "iPod Assign"
( page 21)

2 Either turn <SOURCE SELECT> or press [iPod] to select the input source assigned in step 1-② above.

3 Set [SOURCE CONTROL 1] to "AUDIO" and [SOURCE CONTROL 2] to "iPod/NETWORK".
( page 38 "Remote Control Unit Operations")

4 Press [MODE] and hold it down for a 2 seconds or more to select the display mode.
To switch between modes, press and hold down the button. When remote mode is active, "Remote" is displayed.

[Selectable mode]		Browse mode	Remote mode
Display location		Main unit display	iPod display
Playable files	Audio file	☐	☐
	Video file	☐ * 1	☐ * 2
Active buttons	Remote control unit (AVR-1509)	☐	☐
	iPod	☒	☐

* 1 : When using an ASD-3N or ASD-3W control dock for iPod.
* 2 : Video may not be output, depending on the combination of ASD-1R or ASD-11R and iPod.

- 
- With the default settings, the iPod can be used connected to the VCR (iPod) connector.
 - Use the RESTORER mode to expand the low and high frequency components of compressed audio files and achieve a richer sound. The default setting is "Mode3" ( page 28).
 - Press <ON/STANDBY> or [OFF] and set the AVR-1509's power to the standby mode before disconnecting the iPod. Also switch the input source to one to which "iPod Assign" is not assigned before disconnecting the iPod.
 - When using an ASD-3N or ASD-3W control dock for iPod, refer to the respective manual to operate.

Listening to Audio

1 Use [△▽] to select the item, then press [ENTER] or [▷] to select the music file to be played.

2 Press [ENTER] or [▷].
Playback starts.

☐ **To pause**

During playback, press [ENTER] or [▷].
Press again to resume playback.

☐ **Fast-forwarding or fast-reversing**

During playback, press and hold [◀◀] (to fast-reverse) or [▶▶] (to fast-forward).

☐ **To cue to the beginning of a track**

During playback, press [I◀◀] or [▶▶I].

☐ **To stop**

During playback, either press and hold [ENTER] or press [■].

☐ **Playing repeatedly**

Press [TUNING -].

[Selectable items] **All** **One** **OFF**

☐ **Shuffling playback**

Press [TUNING +].

[Selectable items] **Albums** **Songs** **OFF**



- To check the name of the title, the artist or the album when playing in browse mode, press <STATUS>.
- The folder name and the file name can be displayed in browse mode. Only alphanumeric characters and certain symbols can be displayed. Any characters that cannot be displayed are replaced with " . (period) ".

NOTE

- Depending on the type of iPod and the software version, some functions may not operate.
- DENON will accept no responsibility whatsoever for any loss of iPod data.

Viewing Still Pictures or Videos on the iPod

Photo and video data on the iPod can be viewed on the monitor.
Only for iPod equipped with slideshow or video functions.

When using an ASD-1R or ASD-11R

1 Press and hold [MODE] to set the Remote mode.

2 Watching the iPod's screen, use [△▽] to select "Photos" or "Videos".

3 Press [ENTER] until the image you want to view is displayed.



"TV Out" at the iPod's "Slideshow 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.

When using an ASD-3N or ASD-3W

1 Press and hold [MODE] to set the Browse mode.

2 Watching the display, use [△▽] to select "iPod", then press [▷] or [ENTER].

3 Use [△▽] to select "Video", then press [▷] or [ENTER].

4 Use [△▽] to select the video file to be played, then press [▷] or [ENTER].



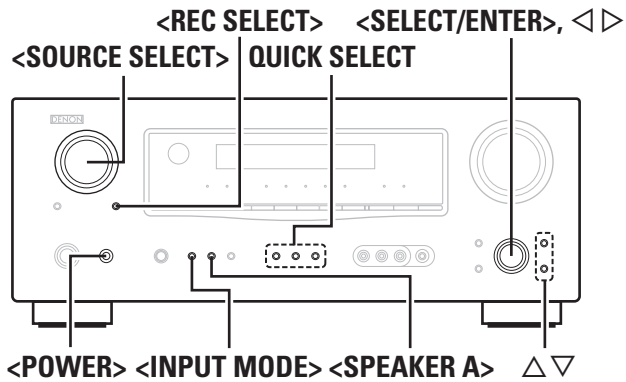
When viewing a still picture, perform the same operation as with ASD-1R or ASD-11R.

Other Operations and Functions



Symbols used to indicate buttons in this manual

- Button located on both the main unit and the remote control unit → **BUTTON**
- Button only on the main unit → **<BUTTON>**
- Button only on the remote control unit → **[BUTTON]**

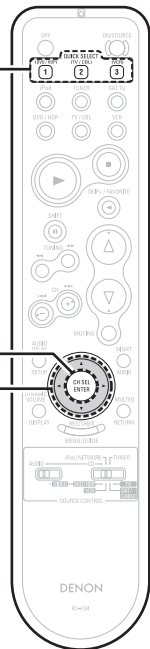


[Front]

QUICK SELECT

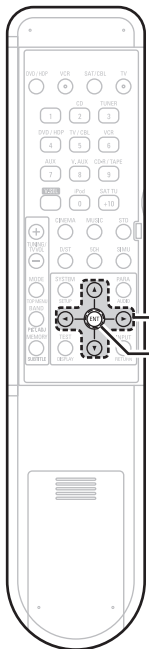
[CH SELECT/ENTER]

Δ ∇ ◀ ▶



[Rear]

Δ ∇ ◀ ▶
[CH SELECT/ENTER]



Other Operations

Recording on an External Device (REC OUT mode)

You can listen to one program source while recording a different program source.

- 1 Press **<REC SELECT>** until "RECOUT" appears on the display.
- 2 Turn **<SOURCE SELECT>** to choose the input source to be recorded.
The "REC" indicator and the indicator for the selected source light.
RECOUT SOURCE ↔ RECOUT TUNER ↔ ... ↔ RECOUT V.AUX
- 3 Play the program source.
For operating instructions, refer to the respective equipment's operating instructions.
To record FM or AM broadcasts, select the broadcast (page 31).
- 4 Start recording.
For operating instructions, refer to the respective equipment's operating instructions.



- To cancel, press **<REC SELECT>**, then turn **<SOURCE SELECT>** until "RECOUT SOURCE" is displayed.
- Make a test recording before starting the actual recording.

NOTE

- Recordings you make are for your personal enjoyment and should not be used for other purposes without permission of the copyright holder.
- Digital signals are not output from the REC OUT (CDR/TAPE and VCR) connector.
- Audio and video signals input from the VCR IN connector are not output from the VCR OUT connector. Audio signal input from the CD-R/TAPE IN connector are not output from the CD-R/TAPE OUT connector.

Convenient Functions

Channel Level

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

- 1 Press **<SELECT/ENTER>** or **[CH SELECT/ENTER]**.

FL Vol.+ 1.5dB

- 2 Use Δ ∇, **<SELECT/ENTER>** or **[CH SELECT/ENTER]** to select the speaker.
The speaker that can be set switches each time one of the buttons is pressed.

- 3 Use ◀ ▶ to adjust the volume.

※ In the case of a sub woofer, reducing the volume when it is at "−12 dB" will change the setting to OFF (none).

Quick Select Function

With this function, the currently playing input source, volume level, surround mode, MultEQ, Dynamic Volume, DV setting and front speaker can be stored in the memory.

1 Set the input source, input mode, surround mode, MultEQ and volume to the conditions you want to store.

2 Press and hold **QUICK SELECT** until “Memory” appears on the display.

The current settings will be memorized.

[Quick Select Defaults]

	Input Source	Volume
Quick Select 1	DVD/HDP	-40 dB
Quick Select 2	TV/CBL	-40 dB
Quick Select 3	VCR	-40 dB



To call out the settings, press **QUICK SELECT** at which the desired settings were stored.

Personal Memory Plus Function

This function sets the settings (input mode, surround mode, MultEQ, Dynamic EQ, Dynamic Volume, audio delay etc.) last selected for the individual input sources.

When you switch to an input source, the settings are automatically set to the ones that were set the last time that input source was used.



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

Last Function Memory

This stores the settings as they were directly before the standby mode was set.

When the power is turned back on, the settings are restored to as they were directly before the standby mode was set.

Backup Memory

The various settings are backed up for about 1 week, even if the power is turned off or the power cord is disconnected.

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 <POWER>.

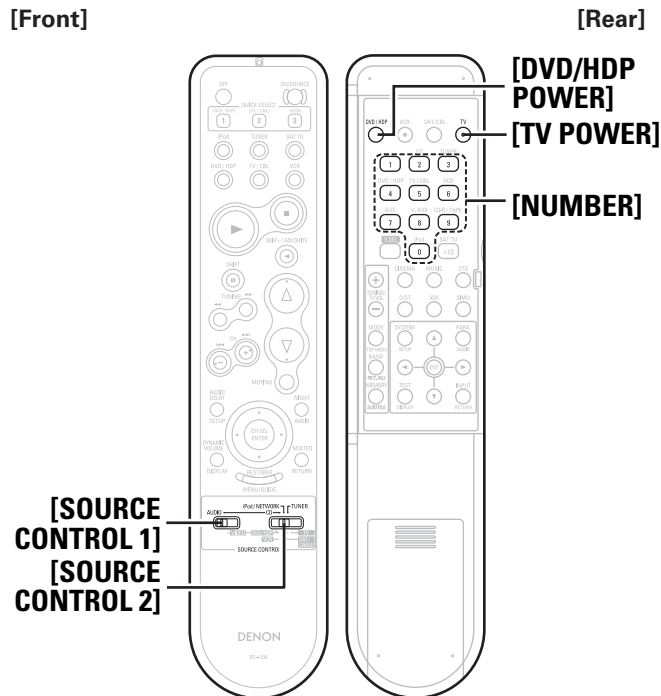
2 Press <POWER> while simultaneously pressing <INPUT MODE> and <SPEAKERS A>.

3 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.

Remote Control Unit Operations



Depending on the model and year of manufacture of your equipment, some buttons may not operate.

Operating DENON Audio Components

- 1 Set **[SOURCE CONTROL 1]** to “AUDIO”.
- 2 Set **[SOURCE CONTROL 2]** to the position for the component to be operated (CD, iPod/NETWORK or TUNER).

- 3 Operate the audio component.

※ For details, refer to the component’s operating instructions.
 ※ While this remote control unit is compatible with a wide range of infrared controlled components, it may be the case that some component models cannot be operated with this remote control unit.

Presetting

- DENON and other makes of components can be operated by setting the preset memory.
- Operation is not possible for some models.

- 1 Set **[SOURCE CONTROL 1]** to “AUDIO” or “VIDEO”.

※ Set to the AUDIO side for the CD position, and to the VIDEO side for the DVD/HDP, VCR, SAT/CABLE or TV position.

- 2 Set **[SOURCE CONTROL 2]** to the component to be registered.

- 3 Press **[DVD/HDP POWER]** and **[TV POWER]** at the same time.

The indicator starts flashing.

- 4 Press **[NUMBER]** and input the 3-digit number of the brand of the component to be preset. The numbers are shown in the Preset Code Table (👉 End of this manual).

- 5 To store the codes of another component in the memory, repeat steps 1 to 4.



- The signals for the pressed buttons are emitted while setting the preset memory. To avoid accidental operation, cover the remote control unit’s transmitting window while setting the preset memory.
- Depending on the model and year of manufacture, this function cannot be used for some models, even if they are of makes listed in the list of preset codes.
- Some manufacturers use more than one type of remote control code. Refer to the included list of preset codes to change the number and verify correct operation.
- The preset memory can be set for one component only among the following: DVD/HDP and SAT/CABLE.
- VDP (Video Disc Player) can be preset when **[SOURCE CONTROL 2]** is set to “DVD/HDP”.

Operating Preset Components

- 1 Set **[SOURCE CONTROL 1]** to “AUDIO” or “VIDEO”.

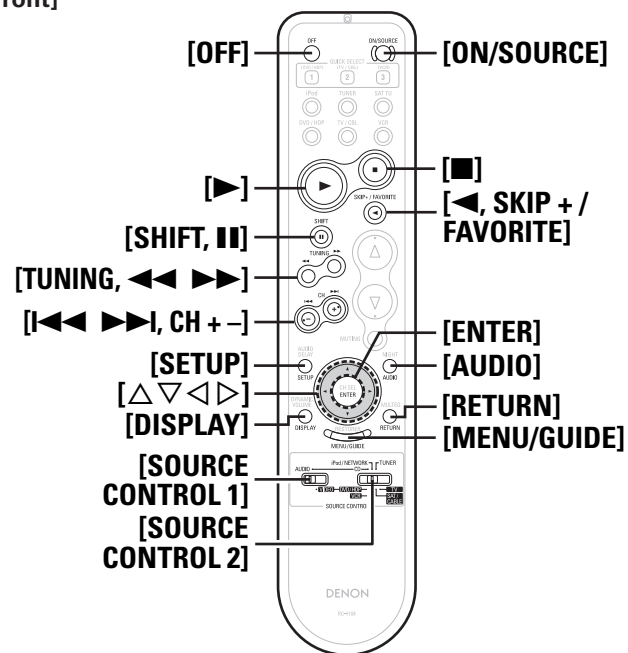
※ Set to the AUDIO side for the CD position, and to the VIDEO side for the DVD/HDP, VCR, SAT/CABLE or TV position.

- 2 Set **[SOURCE CONTROL 2]** to the component you want to operate.

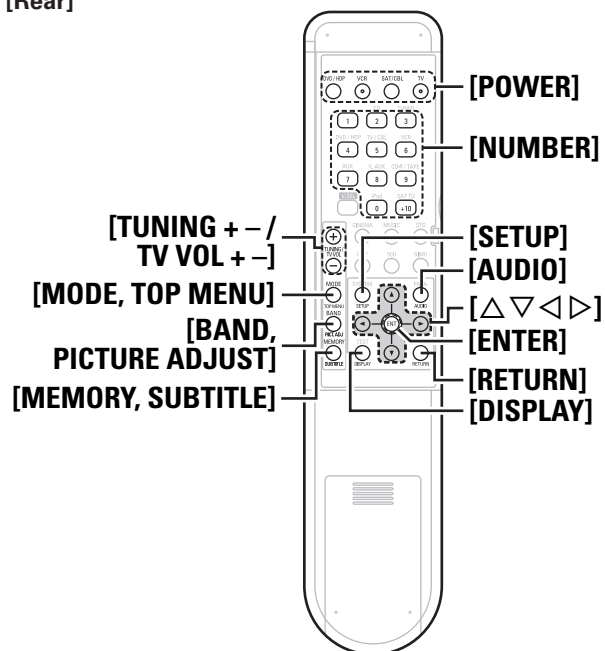
- 3 Operate the component.

※ For details, refer to the component’s operating instructions.
 ※ Some models cannot be operated with this remote control unit.

[Front]



[Rear]



Functions of Buttons by Component

□ Front

Device operated	CD Player	iPod	Tuner	DVD Player	Blu-ray Disc Player	Video Disc Player (VDP)	Video Deck	Satellite Receiver	Cable TV	TV (Monitor)
SOURCE CONTROL 1	AUDIO			VIDEO						
SOURCE CONTROL 2	CD	iPod/ NETWORK	TUNER	DVD / HDP			VCR	SAT / CABLE		TV
OFF	—	—	—	Power off	Power off	—	—	—	—	—
ON/SOURCE	—	—	—	Power on	Power on	Power on / Standby	Power on / Standby	Power on / Standby	Power on / Standby	Power on / Standby
▶	Play	Play / Pause	—	Play	Play	Play	Play	Punch through	Punch through	Punch through
■	Stop	Stop	—	Stop	Stop	Stop	Stop			
SHIFT, II	Pause	—	Shift	Pause	Pause	Pause	Pause			
◀, SKIP + / FAVORITE	Disc skip +	※ Favorites Direct	—	Disc skip	—	—	—			
TUNING, <<>>	Manual search (fast-reverse / fast-forward)	Manual search (fast-reverse / fast-forward)	Tuning down / up	Manual search (fast-reverse / fast-forward)	Manual search (fast-reverse / fast-forward)	Manual search (fast-reverse / fast-forward)	Manual search (fast-reverse / fast-forward)	Switch channels (-, +)		
I<<>>I, CH + -	Auto search (cue)	Auto search (cue)	Tuner Channel - / +	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)			
SETUP	—	—	—	Setup	Setup	—	—	—	—	—
Δ▽◁▷	—	Cursor	—	Cursor operation	Cursor operation	—	—	Cursor operation	Cursor operation	Cursor operation
AUDIO	—	—	—	Switching the audio signal	Switching the audio signal	—	—	—	—	—
ENTER	—	Enter	—	Enter setting	Enter setting	—	—	Enter setting	Enter setting	Enter setting
DISPLAY	—	—	—	Switching the display	Switching the display	—	—	Switching the display	Switching the display	Switching the display
RETURN	—	—	—	Return	Return	—	—	Return	Return	Return
MENU / GUIDE	—	—	—	Calling out the menus	Calling out the menus	—	—	Calling out the menus	Calling out the menus	Calling out the menus

※ The iPod/NETWORK's **FAVORITE** button can be operated when using a control dock for iPod ASD-3N/3W.

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□ Rear

Device operated	CD Player	iPod	Tuner	DVD Player	Blu-ray Disc Player	Video Disc Player (VDP)	Video Deck	Satellite Receiver	Cable TV	TV (Monitor)
SOURCE CONTROL 1	AUDIO			VIDEO						
SOURCE CONTROL 2	CD	iPod/NETWORK	TUNER	DVD / HDP			VCR	SAT / CABLE		TV
POWER	—	—	—	Power on / Power off	Power on / Power off	Power on / Power off	Power on / Power off	Power on / Power off	Power on / Power off	Power on / Power off
NUMBER (0 ~ 9, +10)	—	—	—	Number input / Track selection	Number input / Track selection	Number input / Track selection	—	Channels	Channels	Channels
TUNING (+, -) / TV VOL (+, -)	⊕ CD Random ⊖ CD Repeat	⊕ iPod Random ⊖ iPod Repeat	⊕ Tuning up ⊖ Tuning down	⊕ DVD Random ⊖ DVD Repeat	⊕ Blu-ray Disc Random ⊖ Blu-ray Disc Repeat	⊕ TV Volume ▲ ⊖ TV Volume ▼	⊕ TV Volume ▲ ⊖ TV Volume ▼	⊕ DBS Volume ▲ ⊖ DBS Volume ▼	⊕ Cable Volume ▲ ⊖ Cable Volume ▼	⊕ TV Volume ▲ ⊖ TV Volume ▼
MODE, TOP MENU	—	Page search mode (once) and Browse/Remote mode switching (Press and hold)	Switch search modes	Calling out the menus	Calling out the top menus	—	—	Calling out the menus	Calling out the menus	Calling out the menus
SETUP	—	—	—	Setup	Setup	—	—	—	—	—
△▽◁▷	—	—	—	Cursor operation	Cursor operation	—	—	Cursor operation	Cursor operation	Cursor operation
AUDIO	—	—	—	Audio	Audio	—	—	—	—	—
BAND, PICTURE ADJUST	—	※1 Top menu	AM / FM switching	Picture adjust	Picture adjust	—	—	—	—	—
ENTER	—	—	—	Enter setting	Enter setting	—	—	Enter setting	Enter setting	Enter setting
MEMORY, SUBTITLE	—	※1 Favorite memory	Preset memory	Subtitle	Subtitle	—	—	—	—	—
DISPLAY	—	—	—	Switching the display	Switching the display	—	—	Switching the display	Switching the display	Switching the display
RETURN	—	—	—	Return	Return	—	—	Return	Return	Return
Default setting (Preset code)	DENON (111)	—	—	DENON (111)	※2 DENON (121)	—	HITACHI (108)	—	ABC (007)	HITACHI (134)
Special Remarks	①	—	—	①, ②			①	①, ③		①, ③

[Special Remarks]

- ① Only one device can be set in the preset memory for each mode. When a new preset code is registered, the existing code is automatically erased.
- ② For some brands, the DVD remote control buttons may have different function names. Check beforehand.
- ③ One of the following buttons can be assigned to the TV and satellite receiver or cable TV: CD, iPod/NETWORK, TUNER, DVD/HDP, VCR (page 40 “Punch Through Function”).

※1: This button can be operated when using a control dock for iPod ASD-3N/3W.

※2: The initial setting of Preset code is 111 (DVD Player). With the Blu-ray Disc Player setting, when you have set the remote controller code to “DENON2”, use the Blu-ray Disc Player preset code “121”.

Punch Through Function

“Punch Through” is a function allowing you to operate ►, ■, ◀, ◀◀, ▶▶, ◀◀◀ and ▶▶▶ on CD, iPod/NETWORK, TUNER, DVD/HDP or VCR components when in the SAT/CABLE or TV mode. By default, nothing is set.

- 1 Set **[SOURCE CONTROL 1]** to “VIDEO”.
- 2 Set **[SOURCE CONTROL 2]** to the component to be registered (SAT/CABLE or TV).
- 3 Press **[MEMORY]** and **[RETURN]** at the same time. The indicator starts flashing.
- 4 Input the number of the component you want to set.

	No.
CD	1
iPod/NETWORK	2
TUNER	3
DVD/HDP	4
VCR	5
No setting	0

Other Information

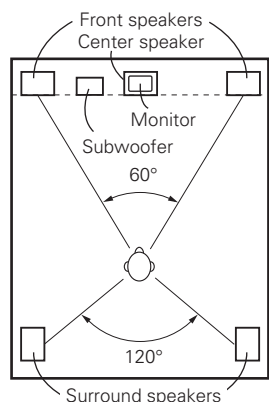
About Speaker Installation

Examples of speaker layouts

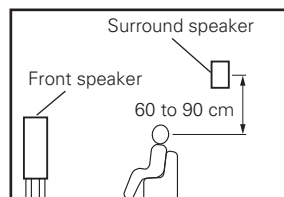
Below we introduce examples of speaker layouts. Refer to these to arrange your speakers according to their type and how you want to use them.

Basic Setting

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.



[As seen from above]



[As seen from the side]

Surround

The AVR-1509 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.

Dolby Surround

Dolby Digital

Dolby Digital is a multichannel 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 real, overpowering sense of presence is achieved when playing movie sources in AV rooms as well.

Dolby Pro Logic II

Dolby Pro Logic II 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.

Manufactured under license from Dolby Laboratories.
"Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

DTS Surround

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 NEO:6™ Surround

DTS NEO:6™ is a matrix decoding technology for achieving 5.1-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.

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.

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,487,535; 7,003,467 & other U.S. and worldwide patents issued & pending. DTS, DTS Digital Surround, and Neo:6 are registered trademarks and the DTS logos, Symbol and DTS 96/24 are trademarks of DTS, Inc. ©1996-2007 DTS, Inc. All Rights Reserved.

Getting Started	Audyssey Audyssey MultEQ® Audyssey MultEQ is a room equalization solution that calibrates any audio system so that it can achieve optimum performance for every listener in a large listening area. Based on several room measurements, MultEQ calculates an equalization solution that corrects for both time and frequency response problems in the listening area and also performs a fully automated surround system setup. Audyssey Dynamic EQ™ Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Audyssey Dynamic EQ works in tandem with Audyssey MultEQ to provide well-balanced sound for every listener at any volume level. Audyssey Dynamic Volume™ Audyssey Dynamic Volume solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies. Audyssey Dynamic EQ is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression, and dialog clarity remain the same. AUDYSSEY MULTEQ AUDYSSEY DYNAMIC VOLUME Manufactured under license from Audyssey Laboratories. U.S. and foreign patents pending. Audyssey MultEQ® is a registered trademark of Audyssey Laboratories. Audyssey Dynamic EQ™ is a trademark of Audyssey Laboratories. Audyssey Dynamic Volume™ is a trademark of Audyssey Laboratories.
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HDMI
(High-Definition Multimedia Interface)

HDMI is a digital interface standard for next generation TVs based on DVI (Digital Visual Interface) standards and optimized for use in consumer equipment.

Non-compressed digital video and multi-channel audio signals are transmitted with a single connection.

HDMI is also compatible with HDCP (High-bandwidth Digital Contents Protection), a technology for protecting copyrights that encrypts digital video signals in the same way as with DVI.

Deep Color

Eliminates on-screen color banding, for smooth tonal transitions and subtle gradations between colors.

Enables increased contrast ratio.

Can represent many times more shades of gray between black and white.

At 30-bit pixel depth, a four times improvement would be the minimum, and the typical improvement would be eight times or more.

xvYCC

Next-generation “xvYCC” color space supports 1.8 times as many colors as existing HDTV signals.

Lets HDTVs display colors more accurately.

Enables displays with natural, vivid colors.

“HDMI”, “HDMI logo” and “High-Definition Multimedia Interface” are trademarks or registered trademarks of HDMI Licensing LLC.

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<https://www.audyssey.com/>

Surround Modes and Parameters

Surround mode	Signals and adjustability in the different modes											
	Channel output				Parameter (default values are shown in parentheses)							
	Front L/R	Center	Surround L/R	Subwoofer	D. Comp *1	LFE *1	Cinema EQ.	Mode	Room Size	Effect Level	Delay Time	Subwoofer
DIRECT	○	×	×	⊙	○ (OFF)	○ (0 dB)	×	×	×	×	×	○
STEREO	○	×	×	⊙	○ (OFF)	○ (0 dB)	×	×	×	×	×	×
EXT. IN	○	⊙	⊙	⊙	×	×	×	×	×	×	×	×
DOLBY PRO LOGIC II	○	⊙	⊙	⊙	○ (OFF)	×	○ (OFF, NOTE1)	○	×	×	×	×
DTS NEO:6	○	⊙	⊙	⊙	○ (OFF)	×	○ (OFF, NOTE2)	○	×	×	×	×
DOLBY DIGITAL	○	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	○ (OFF)	×	×	×	×	×
DTS SURROUND	○	⊙	⊙	⊙	×	○ (0 dB)	○ (OFF)	×	×	×	×	×
5CH STEREO	○	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	×	×	×	×	×	×
ROCK ARENA	○	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	×	×	○ (Medium)	○ (10)	×	×
JAZZ CLUB	○	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	×	×	○ (Medium)	○ (10)	×	×
MONO MOVIE	○	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	×	×	○ (Medium)	○ (10)	×	×
VIDEO GAME	○	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	×	×	○ (Medium)	○ (10)	×	×
MATRIX	○	⊙	⊙	⊙	○ (OFF)	○ (0 dB)	×	×	×	×	○ (30 ms)	×
VIRTURL	○	×	×	⊙	○ (OFF)	○ (0 dB)	×	×	×	×	×	×

○ : Signal / Adjustable

× : No signal / Not adjustable

⊙ : Turned on or off by speaker configuration setting

○ : Enable

× : Unable

NOTE1 : This parameter is available when "Surround Parameter" – "Mode" is set to "Cinema" or "PL" (page 26).

NOTE2 : This parameter is available when "Surround Parameter" – "Mode" is set to "Cinema" (page 26).

NOTE:

*1 : When playing Dolby Digital and DTS signals.

Surround mode	Signals and adjustability in the different modes											
	Parameter (default values are shown in parentheses)											
	PRO LOGIC II MUSIC mode only			NEO:6 MUSIC mode only	EXT. IN only	Tone Control (NOTE5)	Night Mode (NOTE5)	MultEQ	Dynamic EQ (NOTE6)	Dynamic Volume (NOTE7)	DV Setting	RESTORER
	Panorama	Dimension	Center Width	Center Image	SUBWOOFER ATT.							
DIRECT	×	×	×	×	×	×	○ (OFF)	○ (OFF, NOTE4)	○ (ON, NOTE4)	○ (OFF, NOTE4)	○ (Midnight, NOTE8)	×
STEREO	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF, NOTE9)	○ (ON, NOTE9)	○ (OFF, NOTE9)	○ (Midnight, NOTE8)	○ (OFF, NOTE10)
EXT. IN	×	×	×	×	○	×	×	×	×	×	×	×
DOLBY PRO LOGIC II	○ (OFF)	○ (3)	○ (3)	×	×	○ (0 dB)	○ (OFF)	○ (OFF, NOTE9)	○ (ON, NOTE9)	○ (OFF, NOTE9)	○ (Midnight, NOTE8)	○ (OFF, NOTE10)
DTS NEO:6	×	×	×	○ (0.3)	×	○ (0 dB)	○ (OFF)	○ (OFF, NOTE9)	○ (ON, NOTE9)	○ (OFF, NOTE9)	○ (Midnight, NOTE8)	○ (OFF, NOTE10)
DOLBY DIGITAL	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF, NOTE9)	○ (ON, NOTE9)	○ (OFF, NOTE9)	○ (Midnight, NOTE8)	×
DTS SURROUND	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF, NOTE9)	○ (ON, NOTE9)	○ (OFF, NOTE9)	○ (Midnight, NOTE8)	×
5CH STEREO	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF, NOTE9)	○ (ON, NOTE9)	○ (OFF, NOTE9)	○ (Midnight, NOTE8)	○ (OFF, NOTE10)
ROCK ARENA	×	×	×	×	×	○ (NOTE3)	○ (OFF)	○ (OFF, NOTE9)	○ (ON, NOTE9)	○ (OFF, NOTE9)	○ (Midnight, NOTE8)	○ (OFF, NOTE10)
JAZZ CLUB	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF, NOTE9)	○ (ON, NOTE9)	○ (OFF, NOTE9)	○ (Midnight, NOTE8)	○ (OFF, NOTE10)
MONO MOVIE	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF, NOTE9)	○ (ON, NOTE9)	○ (OFF, NOTE9)	○ (Midnight, NOTE8)	○ (OFF, NOTE10)
VIDEO GAME	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF, NOTE9)	○ (ON, NOTE9)	○ (OFF, NOTE9)	○ (Midnight, NOTE8)	○ (OFF, NOTE10)
MATRIX	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF, NOTE9)	○ (ON, NOTE9)	○ (OFF, NOTE9)	○ (Midnight, NOTE8)	○ (OFF, NOTE10)
VIRTURL	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF, NOTE9)	○ (ON, NOTE9)	○ (OFF, NOTE9)	○ (Midnight, NOTE8)	○ (OFF, NOTE10)

○ : Adjustable

× : Not adjustable

NOTE3 : BASS +6 dB, TREBLE +4 dB

NOTE4 : When "System Setup" – "Option Setup" – "Direct Mode Setup" are turned "ON", also after implementing "Auto Setup".

NOTE5 : This parameter is not available when "Surround Parameter" – "Dynamic EQ" is set to "ON" (page 27).

NOTE6 : This parameter is not available when "Surround Parameter" – "MultEQ" is set to "OFF" (page 27).

NOTE7 : This parameter is not available when "Surround Parameter" – "Dynamic EQ" is set to "OFF" (page 27).

NOTE8 : Displayed when "Dynamic Volume" setting is "ON".

NOTE9 : Displays after implementing Auto Setup.

NOTE10 : Displayed when input signal is "Analog" or "PCM 44.1/48 kHz".

Differences in Surround Mode Names Depending on the Input Signals

Button		Input signals						
Surround mode	ANALOG	LINEAR PCM	LINEAR PCM (Multi ch)	DTS		DOLBY DIGITAL		
				DTS (5.1ch)	DTS 96/24	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)
STANDARD								
DTS SURROUND								
DTS SURROUND		×	×	×	⊙	×	×	×
DTS 96/24		×	×	×	⊙	×	×	×
DTS NEO:6 CINEMA		○	○	×	×	×	×	○
DTS NEO:6 MUSIC		○	○	×	×	×	×	○
DOLBY Surround								
DOLBY DIGITAL		×	×	×	×	⊙	⊙	×
DOLBY PLII CINEMA		○	○	×	×	×	×	⊙
DOLBY PLII MUSIC		○	○	×	×	×	×	○
DOLBY PLII GAME		○	○	×	×	×	×	○
DOLBY PRO LOGIC		○	○	×	×	×	×	○
DIRECT								
DIRECT		○	○	×	○	○	○	○
DSP SIMULATION								
5CH STEREO		○	○	×	○	○	○	○
ROCK ARENA		○	○	×	○	○	○	○
JAZZ CLUB		○	○	×	○	○	○	○
MONO MOVIE		○	○	×	○	○	○	○
VIDEO GAME		○	○	×	○	○	○	○
MATRIX		○	○	×	○	○	○	○
VIRTUAL		○	○	×	○	○	○	○
STEREO								
STEREO		⊙	⊙	×	○	○	○	○

◎ : Mode selectable in initial status

○ : Selectable mode

× : Non-selectable mode

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	Countermeasure	Page
Set does not operate properly.	• External noise or interference is causing the set to malfunction.	• Reset the microprocessor.	37
Power does not turn on, or turns off directly after it was turned on.	• Connection of the power cord is faulty.	• Check the insertion of the power cord plug.	14
No sound is produced from speakers.	• Connection with the input devices or connection of the speaker cables is faulty. • Device you want to play and set input source do not match. • Master volume is turned too low. • Mute mode is set. • Headphones are connected. • No digital signals are being input. • The connectors to which the digital inputs are assigned and the settable input modes do not match.	• Check the connections. • Select an appropriate input source. • Adjust the master volume to an appropriate level. • Cancel the mute mode. • Disconnect the headphones. • Select an input source for which the digital input setting has been made. • Set the input mode.	8 ~ 14
			30
			31
			31
			21
			30
Display is off.	• The Dimmer setting is set to "OFF".	• Set to something other than "OFF".	31
"DOLBY DIGITAL" indicator does not appear on display.	• DVD player's digital audio output setting is not proper.	• Check the DVD player's audio output setting. For details, read the DVD player's operating instructions.	–
Power switches off suddenly while you are using the AVR-1509, the power indicator will flash in red at intervals of approximately 2 seconds.	• The protection circuit will be activated depending upon the temperature rise in the internal parts of the unit.	• Please switch off power at once, and re-apply the power after the body temperature has fallen sufficiently. • Please re-install AVR-1509 in a place having good ventilation.	9 –

Symptom	Cause	Countermeasure	Page
Power switches off suddenly while you are using the AVR-1509, the power indicator will flash red at intervals of approximately 0.5 seconds.	• Use speakers having impedance less than that specified. • If speaker cable core wires touch each other or the core wires become disconnected from their terminals, the protection circuit will be activated in the event of core wires coming into contact with the AVR-1509 rear panel.	• Please use speakers which have the specified impedance. • Unplug the power cord, then after twisting the core wires together tightly again, or effecting termination treatments etc, please reconnect once again.	9 9
Even applying power, the power display flashes red at intervals of approximately 0.5 seconds.	• The AVR-1509 amplifier circuit has failed.	• Switch off the power and please contact the DENON service adviser.	–

[Remote Control Unit]

Symptom	Cause	Countermeasure	Page
Set does not work properly when remote control unit operated.	• Batteries are worn. • You are operating outside of the specified range. • Obstacle between main unit and remote control unit. • The batteries are not inserted in the proper direction, as indicated by the polarity marks in the battery compartment. • The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.). • The remote ID of the main unit and remote control unit do not match. • The SOURCE CONTROL switches are not set in the correct positions.	• Replace with new batteries. • Operate within the specified range. • Remove the obstacle. • Insert the batteries in the proper direction, following the polarity marks in the battery compartment. • Move the set to a place in which the remote control sensor will not be exposed to strong light. • Set "Remote ID" for the main unit to "1". • Set the SOURCE CONTROL switches to the correct positions according to the operation you are applying.	3 3 3 3 3 23 31, 33, 34 38 ~ 40

[Audio]

Symptom	Cause	Countermeasure	Page
No sound is produced from center speaker.	• You are playing a monaural source (TV, AM radio broadcast, etc.) in the "STANDARD" (Dolby/DTS Surround) mode.	• The mode is set to something other than "STANDARD" (Dolby/DTS Surround).	24
No sound is produced from surround speakers.	• The surround mode is set to "STEREO" or "DIRECT".	• Set to a surround playback mode.	24
No sound is produced from subwoofer.	• Subwoofer's power not turned on. • The "Subwoofer" setting at "Speaker Configuration" is set to "No". • The subwoofer is not properly connected. • The subwoofer's volume is turned off.	• Turn on the subwoofer's power.	–
		• Set to "Yes".	19
		• Check the connections.	8
		• Adjust the subwoofer's volume to an appropriate level.	36
No test tones are produced when remote control unit's TEST button is pressed.	• Surround mode not set to "STANDARD" (Dolby/DTS Surround).	• Set to the "STANDARD" (Dolby/DTS Surround) mode.	24
DTS sound is not output.	• DVD player's audio output setting is not set to bitstream. • DVD player is not compatible with DTS sound playback. • The AVR-1509's "Input Mode" setting is set to other than "DTS".	• Set the DVD player. For details, refer to the DVD player's operating instructions.	–
		• Use a DTS-compatible player.	–
		• Set to the "Auto" or "DTS" mode.	30

[Video]

Symptom	Cause	Countermeasure	Page
No picture appears.	• The connections between the AVR-1509 and monitor are faulty. • The monitor's input setting is wrong. • The player is connected using the component input connectors, the monitor is connected using the video (yellow) or S-Video output connectors.	• Check the connections.	9 ~ 12
		• Set properly.	–
		• In the case of a player which is connected to component terminals, if the monitor is not connected to the component terminals, the image will not appear. Check the connections.	–
DVDs cannot be copied on a VCR.	–	• This is not a malfunction. Most movie software includes copy prevention signals and cannot be copied.	–

[HDMI]

Symptom	Cause	Countermeasure	Page
HDMI audio signals are not output from speakers.	–	• The audio signal input to the HDMI input connector cannot be played on the AVR-1509. Input the audio signal to the digital audio input connector or analog audio input connector.	9, 11
No picture appears with HDMI connections.	• The connections to the HDMI connectors are faulty. • HDMI input setting is improper. • The HDMI format of the player and monitor do not match.	• Check the connections.	9, 11
		• Check the HDMI input setting. • Match the HDMI format of the player and monitor.	21 9, 11
No sound is output from the monitor connected with HDMI connections.	• HDMI input setting is improper.	• Check the HDMI input setting.	21

[iPod]

Symptom	Cause	Countermeasure	Page
iPod cannot be played.	• The input source assigned to control dock for iPod is not selected. • Cable is not properly connected. • Control dock for iPod's AC adapter is not connected to power outlet.	• Switch to the input source assigned at control dock for iPod.	21
		• Reconnect.	11
		• Plug the control dock for iPod's AC adapter into a power outlet.	–

Specifications

Audio section

Power amplifier

Rated output:	Front (A, B):		
	75 W + 75 W	(8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)	
	110 W + 110 W	(6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)	
	Center:		
	75 W	(8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)	
Output connectors:	110 W	(6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)	
	Surround:		
	75 W + 75 W	(8 Ω/ohms, 20 Hz ~ 20 kHz with 0.08 % T.H.D.)	
	110 W + 110 W	(6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)	
	Front:		
• Analog		A or B	6 ~ 16 Ω/ohms
		A + B	12 ~ 16 Ω/ohms
	Center, Surround:		
Input sensitivity / Input impedance:	200 mV / 47 kΩ/kohms		
	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/ohms
Frequency response:	5 Hz ~ 10 MHz — +1, -3 dB
• S-Video connectors	
Input / output level and impedance:	Y (brightness) signal — 1 Vp-p, 75 Ω/ohms
	C (color) signal — 0.3 (PAL) / 0.286 (NTSC) Vp-p, 75 Ω/ohms
Frequency response:	5 Hz ~ 10 MHz — +1, -3 dB
• Color component video connectors	
Input / output level and impedance:	Y (brightness) signal — 1 Vp-p, 75 Ω/ohms
	P _B / C _B signal — 0.7 Vp-p, 75 Ω/ohms
	P _R / C _R signal — 0.7 Vp-p, 75 Ω/ohms
Frequency response:	5 Hz ~30 MHz — +0, -3 dB

Tuner section

Receiving Range: Usable Sensitivity: 50 dB Quieting Sensitivity:	[FM]		[AM]
	(note: μV at 75 Ω/ohms, 0 dBf = 1 x 10 ⁻¹⁵ W)		
	87.5 MHz ~ 108.0 MHz		522 kHz ~ 1611 kHz
	1.0 μV (11.2 dBf)		18 μV
	MONO	1.6 μV (15.3 dBf)	
S/N (IHF-A):	STEREO	23 μV (38.5 dBf)	
	MONO	77 dB	
	STEREO	72 dB	
Total harmonic Distortion (at 1 kHz):	MONO	0.15 %	
	STEREO	0.3 %	

General

Power supply:	AC 230 V, 50 Hz
Power consumption:	360 W
	0.3 W (Standby)
Maximum external dimensions:	434 (W) x 171 (H) x 377 (D) mm
Weight:	10.7 kg

Remote control unit (RC-1104)

Batteries:	R6/AA Type (two batteries)
Maximum external dimensions:	52 (W) x 243 (H) x 21 (D) mm
Weight:	184 g (including batteries)

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

**List of preset codes / Liste von voreingestellten Codes / Liste de codes pré-réglés / Lista dei codici pre-regolati /
Lista de códigos pre-ajustados / Lijst van voorinstelde codes / Förteckning över förinställda koder**

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A	Aiwa	009
D	Denon	014, [111]*, 121
H	Hitachi	010
J	JVC	006, 011
K	Konka	012, 013
M	Magnavox	005
	Mitsubishi	004
P	Panasonic	014
	Philips	005, 015, 016, 017
	Pioneer	003, 008
S	Sanyo	018
	Sony	002, 019, 020
T	Toshiba	001, 021, 022
Z	Zenith	023

VDP

D	Denon	028, 029, 112
M	Magnavox	026
	Mitsubishi	028
P	Panasonic	029, 030
	Philips	026
	Pioneer	028, 031
R	RCA	032
S	Sony	033, 034, 035, 036

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	Aiko	095
	Aiwa	009
	Akai	026, 027, 070, 072, 082, 083, 084
	Alba	055
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	Capehart	025, 055, 056, 071
	Carver	015
	CCE	095
	Citizen	006, 007, 087, 088, 089, 090, 095
	Craig	007, 087, 088, 091, 115

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	Daytron	025, 055
	DBX	005, 085
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	Dynatech	009
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	Harman Kardon	040, 062
	Hi-Q	091
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K	Kenwood	004, 005, 006, 026, 029, 033, 045, 085, 090
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	MGN Technology	087
	Midland	011
	Minolta	013, 023
	Mitsubishi	001, 003, 008, 013, 014, 017, 027, 029, 039, 040, 041, 045, 097
	Motorola	081
	Montgomery Ward	001, 002, 007, 009, 049, 063, 081, 115, 117
	MTC	009, 087, 094

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