DENON

AV SURROUND RECEIVER

AVR-3808

Owner's Manual

Bedienungsanleitung

Manuel de l'Utilisateur

☞ **Book 1** | **English** | **Deutsch** | **Français** | PRESET CODE

Book 2 | Italiano | Español | Nederlands | Svenska

GUI *Graphical User Interface*

❏ **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.

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.
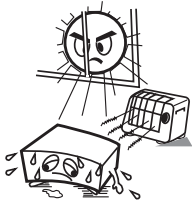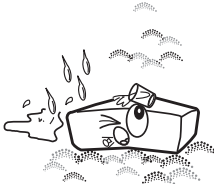
FÖRSIKTIHETSMÅTT:
Koppla loss stickproppen från eluttaget för att helt skilja produkten från nätet.
Stickproppen används för att helt bryta strömförsörjningen till apparaten, och den måste vara lättillgänglig för användaren.

I

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

- Avoid high temperatures.
  Allow for sufficient heat dispersion when installed in a rack.
- Vermeiden Sie hohe Temperaturen.
  Beachten Sie, dass eine ausreichende Belüftung gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird.
- Eviter des températures élevées.
  Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère.
- Evitate di esporre l'unità a temperature elevate.
  Assicuratevi che vi sia un'adeguata dispersione del calore quando installate l'unità in un mobile per componenti audio.
- Evite altas temperaturas.
  Permite la suficiente dispersión del calor cuando está instalado en la consola.
- Vermijd hoge temperaturen.
  Zorg er bij installatie in een audiorack voor, dat de door het toestel geproduceerde warmte goed kan worden afgevoerd.
- Undvik höga temperaturer.
  Se till att det finns möjlighet till god värmeavledning vid montering i ett rack.

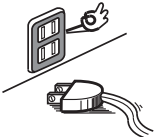- Handle the power cord carefully.
  Hold the plug when unplugging the cord.
- Gehen Sie vorsichtig mit dem Netzkabel um.
  Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen.
- Manipuler le cordon d'alimentation avec précaution.
  Tenir la prise lors du débranchement du cordon.
- Maneggiate 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 nätkabeln varsamt.
  Håll i kabeln när den kopplas från el-uttaget.

- Keep the unit free from moisture, water, and dust.
- Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern.
- Protéger l'appareil contre l'humidité, l'eau et la poussière.
- Tenete l'unità lontana dall'umidità, dall'acqua e dalla 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.

- Unplug the power cord when not using the unit for long periods of time.
- Wenn das Gerät längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker.
- Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes.
- Scollegate il cavo di alimentazione quando prevedete di non utilizzare l'unità per un lungo periodo di tempo.
- Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo.
- Neem altijd het netsnoer uit het stopkontakt wanneer het apparaat gedurende een lange periode niet wordt gebruikt.
- Koppla loss nätkabeln om apparaten inte kommer att användas i lång tid.

* (For apparatuses with ventilation holes)

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

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

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

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

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

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

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

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

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

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

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

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.

Contents

Getting Started

Thank you for purchasing this DENON product. To ensure proper operation, please read these owner's manual carefully before using the product.
After reading them, be sure to keep them for future reference.

Accessories

Check that the following parts are supplied with the product.

q Owner's manual 1
w Service station list 1
e Power cord (Cord length: Approx. 1.5 m) 1
r Main remote control (RC-1068) 1
t LR6/AA batteries (for RC-1068).. 2
y Sub remote control (RC-1070) 1
u R03/AAA batteries (for RC-1070) 2
i FM indoor antenna 1
o AM loop antenna 1
Q0 Setup microphone (Cord length: Approx. 7.6 m)..................... 1
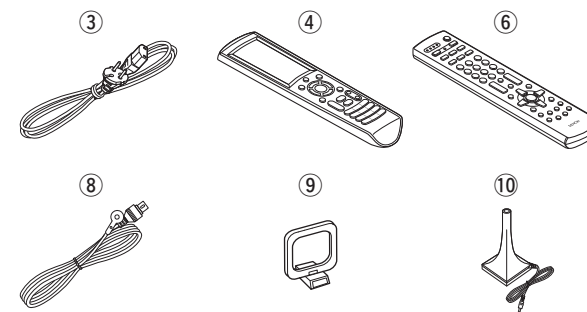
Cautions on Handling

• **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.
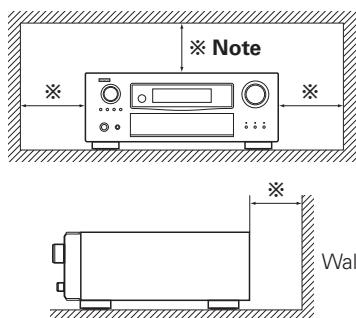
About the Remote Control Unit

In addition to the AVR-3808, the included main remote control unit (RC-1068) can also be used to operate the equipment listed below.
① DENON system components
② Non-DENON system components
 • By setting the preset memory (☞ page 60 ~ 62)
 • By using the learn function (☞ page 63)

Inserting the Batteries

① Lift the clasp and remove the rear lid.

(RC-1068)   (RC-1070)
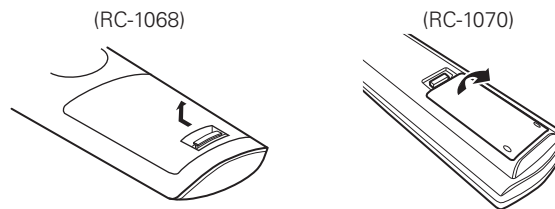
② Load the two batteries properly as indicated by the marks in the battery compartment.

(RC-1068)   (RC-1070)

LR6/AA   R03/AAA
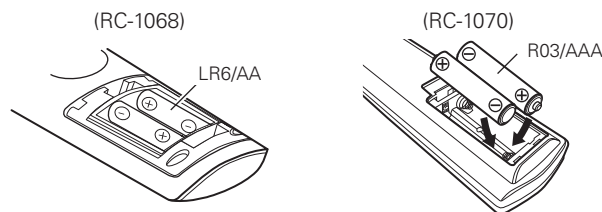
③ Put the rear cover back on.

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 "$\oplus$" and "$\ominus$" marks in the battery compartment.
• To prevent damage or leakage of battery fluid:
 • Do not use a new battery together with an old one.
 • Do not use two different types of batteries.
 • Do not attempt to charge dry batteries.
 • Do not short-circuit, disassemble, heat or dispose of batteries in 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.

30°
30°
Approx. 7 m
(RC-1070)
or
(RC-1068)
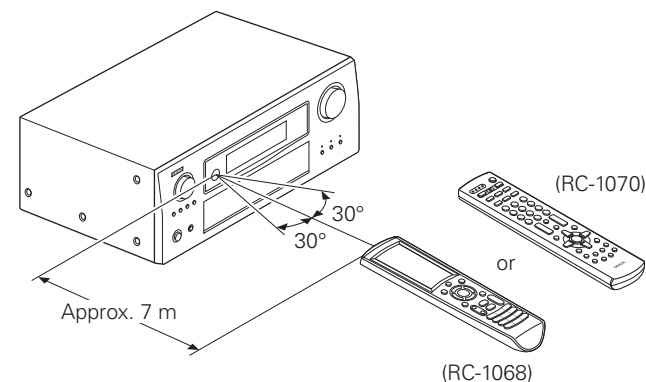
NOTE

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.

3

Getting Started | Connections | Setup | Playback | Remote Control | Multi-Zone | Information | Troubleshooting

Part Names and Functions

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

Front Panel
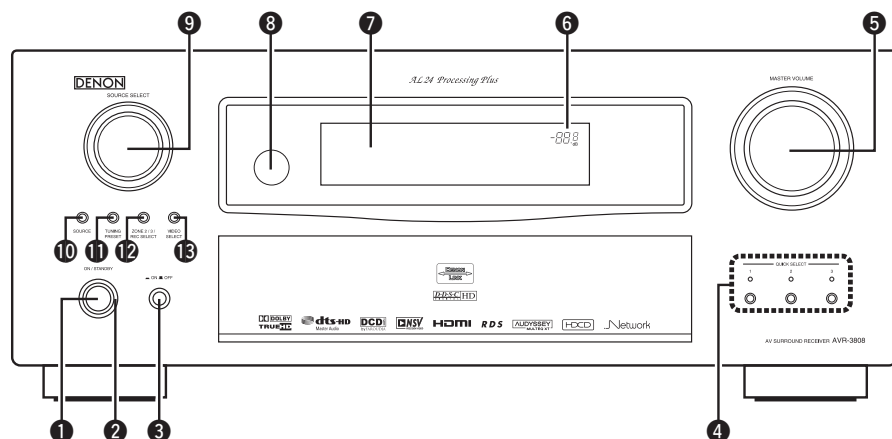
【With the door open】
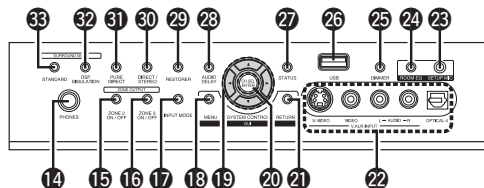
**q Power operation button
(ON/STANDBY)** ··· (47)

w Power indicator ··· (47)

e Power switch (■ON ■OFF) ····················· (47)

r QUICK SELECT buttons / indicators ········· (59)

t MASTER VOLUME control knob ················ (47)

y Master volume indicator

u Display

i Remote control sensor ································· (3)

o SOURCE SELECT knob ······························ (37)

!0 SOURCE button ·· (37)

!1 TUNING PRESET button ···························· (49)

!2 ZONE2/3 / REC SELECT button ·········· (58, 72)

!3 VIDEO SELECT button ······························· (38)

!4 Headphones jack (PHONES) ······················ (47)

!5 ZONE2 ON/OFF button ······························ (72)

!6 ZONE3 ON/OFF button ······························ (72)

!7 INPUT MODE button ································· (38)

!8 MENU button ··· (23)

!9 Cursor buttons (△▽◁▷) ·························· (23)

@0 CH SEL / ENTER button ······················ (23, 59)

@1 RETURN button ··· (23)

@2 V.AUX INPUT connectors ··························· (17)

@3 SETUP MIC jack ·· (25)

@4 ROOM EQ button ······································ (44)

@5 DIMMER button ··· (35)

@6 USB port ·· (18)

@7 STATUS button ·· (45)

@8 AUDIO DELAY button ································ (44)

@9 RESTORER button ······································ (44)

#0 DIRECT/STEREO button ···························· (41)

#1 PURE DIRECT button ································· (41)

#2 DSP SIMULATION button ························· (41)

#3 STANDARD button ····································· (40)

Display
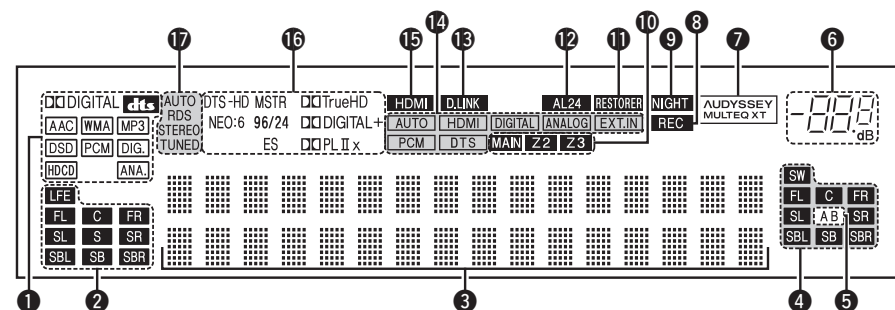
q Input signal indicators

w Input signal channel indicators
These light when digital signals are input.

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

r Output signal channel indicators

t Surround speaker indicators
These light according to the settings of the surround A and B speakers.

y Master volume indicator

u AUDYSSEY MULTEQ XT indicator
This lights when the room equalizer is selected.

i Recording output source indicator
This lights when the REC OUT mode is selected.

o NIGHT indicator
This lights when the night mode is selected.

!0 Multi-zone indicators
These light when the power for the respective zone is turned on.

!1 RESTORER indicator
This lights when the RESTORER mode is selected.

!2 AL24 indicator
This lights when AL24 Processing Plus is activated (☞page 75).

!3 D.LINK indicator
This lights when playing using DENON LINK connections.

!4 Input mode indicators

!5 HDMI indicator
This lights when playing using HDMI connections.

!6 Decoder indicators
These light when the respective decoders are operating.

!7 Tuner reception mode indicators
These light according to the reception conditions when the input source is set to "TUNER".

• **AUTO**
These light when in the auto tuning mode.

• **RDS**
This lights when receiving RDS broadcasts.

• **STEREO**
In the FM mode, these light when receiving analog stereo broadcasts.

• **TUNED**
Lights when the broadcast is properly tuned in.
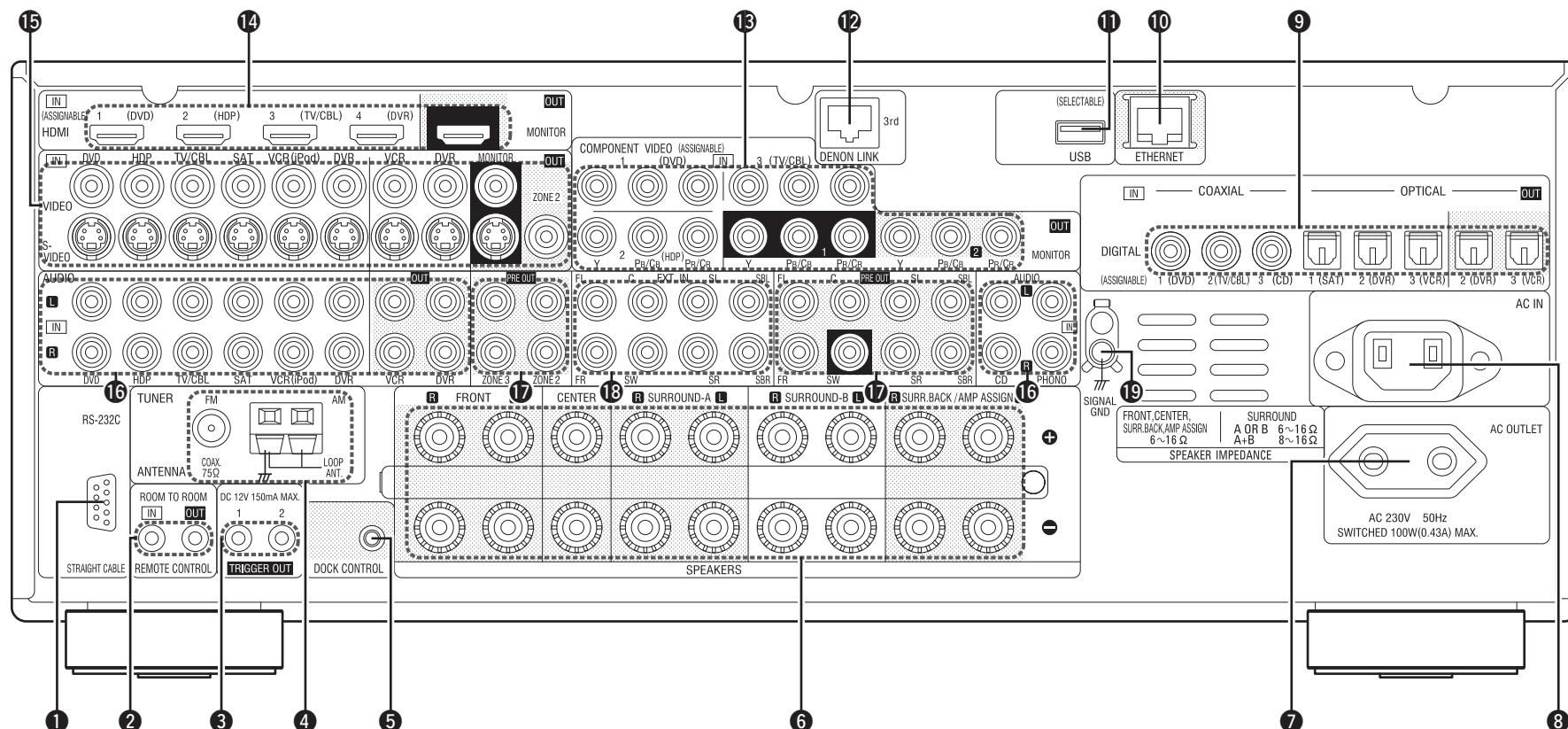
4

Rear Panel

❶ **RS-232C connector** .... (21)

❷ **REMOTE CONTROL jacks** .... (21)

❸ **TRIGGER OUT jacks** .... (21)

❹ **FM/AM antenna terminals
   (TUNER ANTENNA)** .... (19)

❺ **DOCK CONTROL jack** .... (13)

❻ **Speaker terminals (SPEAKERS)** .... (9)

❼ **AC OUTLET** .... (22)

❽ **AC inlet (AC IN)** .... (22)

❾ **Digital audio connectors
   (OPTICAL / COAXIAL)** .... (12, 14)

❿ **ETHERNET connector** .... (20)

⓫ **USB port** .... (18)

⓬ **DENON LINK connector** .... (16)

⓭ **COMPONENT VIDEO connectors** .... (12)

⓮ **HDMI connectors** ....(11)

⓯ **VIDEO / S-VIDEO connectors** .... (12)

⓰ **Analog audio connectors (AUDIO)** .... (12)

⓱ **PRE OUT connectors** .... (17, 21)

⓲ **EXT. IN connectors** .... (17)

⓳ **SIGNAL GND terminal** .... (13)

5

Remote Control Unit

❏ **Main remote control unit (RC-1068)**
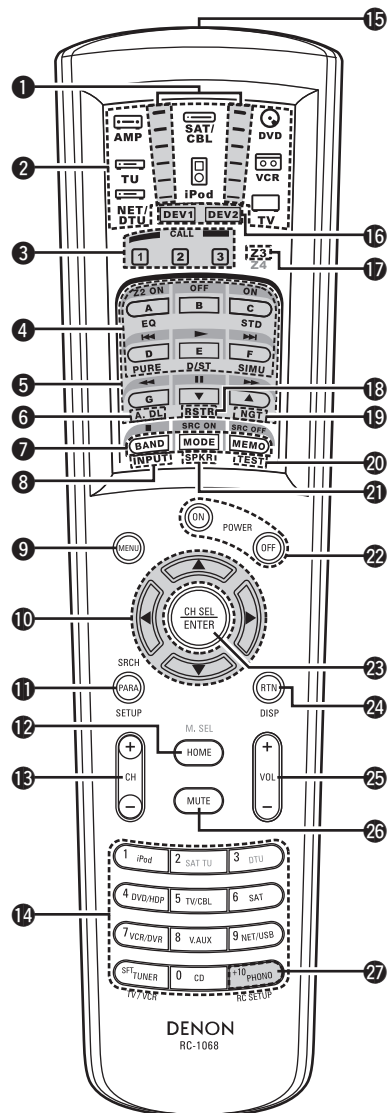
q **Signal transmission indicator** ·················· (60)

w **Mode select buttons** ··································· (60)

e **Quick select / System call buttons** ····· (59, 64)

r **Surround mode buttons** ······················ (40, 41)

t **System buttons** ····································· (61, 62)

y **Audio delay button (A. DL)** ························ (44)

u **Tuner system buttons** ····························· (48)

i **Input mode button (INPUT)** ······················ (38)

o **MENU button** ·· (23)

Q0 **Cursor buttons (△▽◁ ▷)** ························· (23)

Q1 **Parameter / Search button
(PARA / SRCH)** ······································· (42, 49)

Q2 **HOME button** ·· (60)

Q3 **Channel buttons (CH)** ······························· (48)

Q4 **Input source select / Number buttons** ··· (37, 48)

Q5 **Remote control signal transmitter** ············· (3)

Q6 **Device select indicators (DEV1 / DEV2)** ··· (60)

Q7 **ZONE3 select indicators (Z3)** ····················· (72)

Q8 **RESTORER button (RSTR)** ··························· (44)

Q9 **Night button (NGT)** ··································· (44)

W0 **Test tone button (TEST)** ···························· (29)

W1 **Surround speaker select button (SPKR)** ··· (29)

W2 **POWER buttons** ··· (47)

W3 **Channel select (CH SEL) /
ENTER button** ······································ (23, 59)

W4 **Return button (RTN)** ·································· (23)

W5 **Master volume control buttons (VOL)** ······ (47)

W6 **Muting button (MUTE)** ··························· (47, 72)

W7 **Main remote control unit setup button
(RC SETUP)** ·· (60)

The time for which the backlight stays on can be changed (☞ page 65 "Setting the Time the Backlight Stays Lit").

NOTE

• The **M. SEL**, **SAT TU**, **DTU** buttons cannot be used.

• The ZONE2 mode **QUICK SELECT (1 ~ 3)**, **A.DL**, **RSTR**, **NGT**, **INPUT**, **SPKR**, **TEST** and surround mode buttons cannot be used.

• The ZONE4 mode cannot be used.

❏ **Sub remote control unit (RC-1070)**
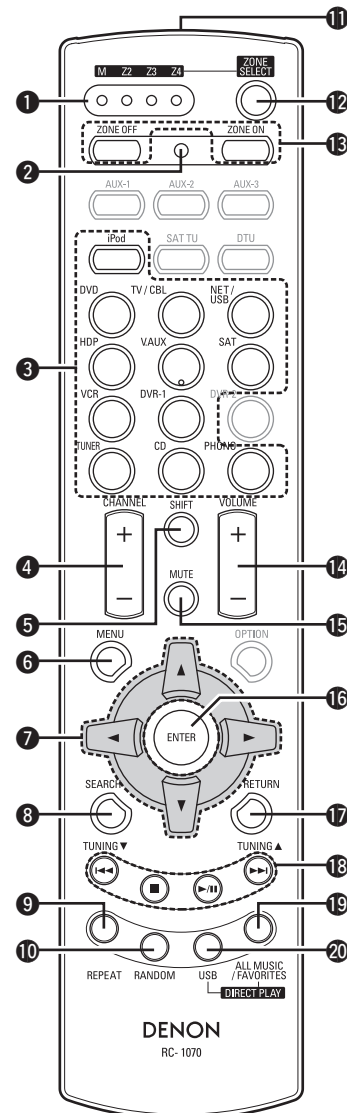
q **ZONE indicators** ·· (68)

w **Advanced setup button** ····························· (68)

e **Input source select buttons** ······················ (37)

r **CHANNEL buttons** ···································· (48)

t **SHIFT button** ·· (48)

y **MENU button** ·· (23)

u **Cursor buttons (△▽◁ ▷)** ························· (23)

i **SEARCH button** ·· (49)

o **REPEAT button** ·· (52)

Q0 **RANDOM button** ····································· (52)

Q1 **Remote control signal transmitter** ·············· (3)

Q2 **ZONE SELECT button** ································· (68)

Q3 **Zone power on/off buttons
(ZONE ON / ZONE OFF)** ··························· (72)

Q4 **Master volume control buttons
(VOLUME)** ·· (66, 67)

Q5 **Muting button (MUTE)** ·························· (47, 72)

Q6 **ENTER button** ·· (23)

Q7 **RETURN button** ·· (23)

Q8 **System buttons** ································ (48, 66, 67)

Q9 **ALL MUSIC/FAVORITES
(DIRECT PLAY) button** ····························· (66)

W0 **USB (DIRECT PLAY) button** ······················ (66)

NOTE

The **AUX-1**, **AUX-2**, **AUX-3**, **SAT TU**, **DTU**, **DVR-2** and **OPTION** buttons cannot be used.

Getting Started

Connections

Setup

Playback

Remote Control

Multi-Zone

Information

Troubleshooting

Connections

Connections for all compatible audio and video signal formats are described in these operating instructions. 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-3808. For details, refer to the instructions for the respective connection items below.
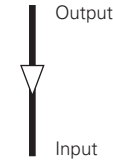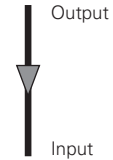
NOTE

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

7

Video Conversion Function

• This function automatically converts various formats of video signals input to the AVR-3808 into the format used to output the video signals from the AVR-3808 to a monitor.
• The AVR-3808's video input/output circuitry is compatible with the following four types of video signals:
Digital video signals: HDMI
Analog video signals: Component video, S-Video and Video

〔Flow of video signals inside the AVR-3808〕

---- : When 480i/576i signals are input in the main zone
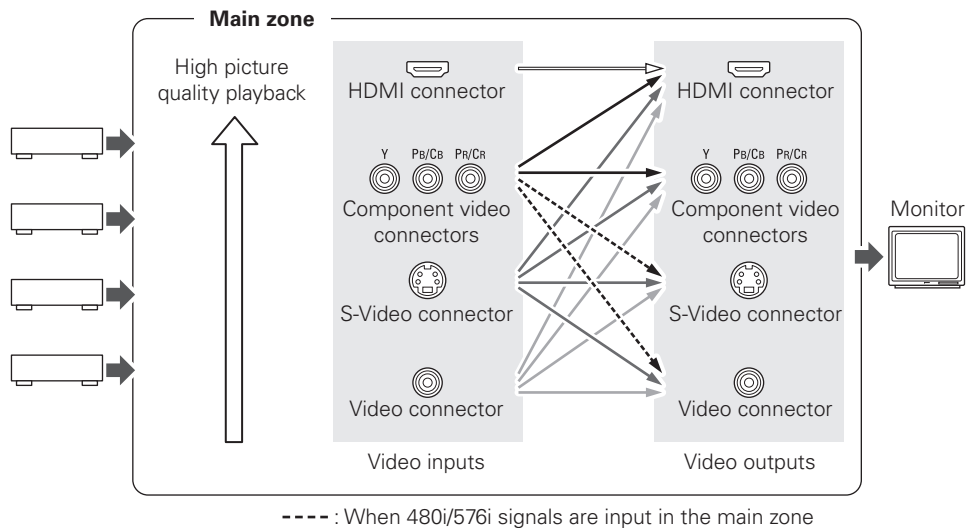
〔Flow of video signals for ZONE2〕
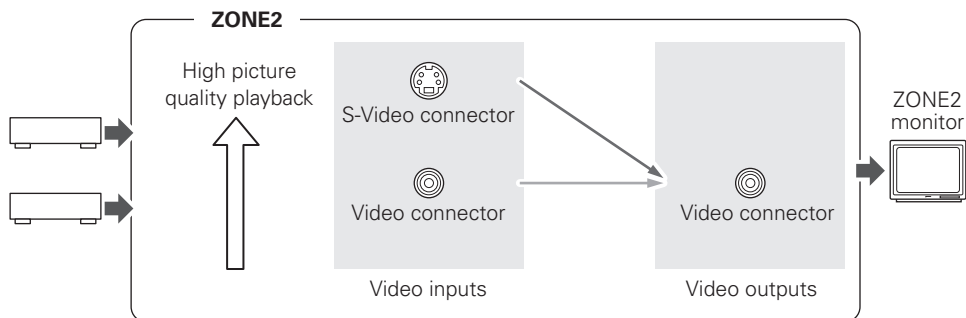
• When not using this function, connect a monitor output with the same type of connector as the video input connector.
• The resolution of the HDMI input-compatible monitor connected to the AVR-3808 can be checked at GUI menu "Information" – "HDMI Information" – "Monitor" (☞ page 46).

NOTE

• HDMI signals cannot be converted into analog signals.
• 1080p component input video signals cannot be output to anything other than component video connectors.
• 480p/576p, 1080i and 720p component video input signals cannot be converted into S-Video or Video format.
• When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate.

Speaker Connections

Speaker Installation

The illustration below shows a basic example of installation of the amplifier combined with 8 speakers and a monitor.

Subwoofer

Center speaker

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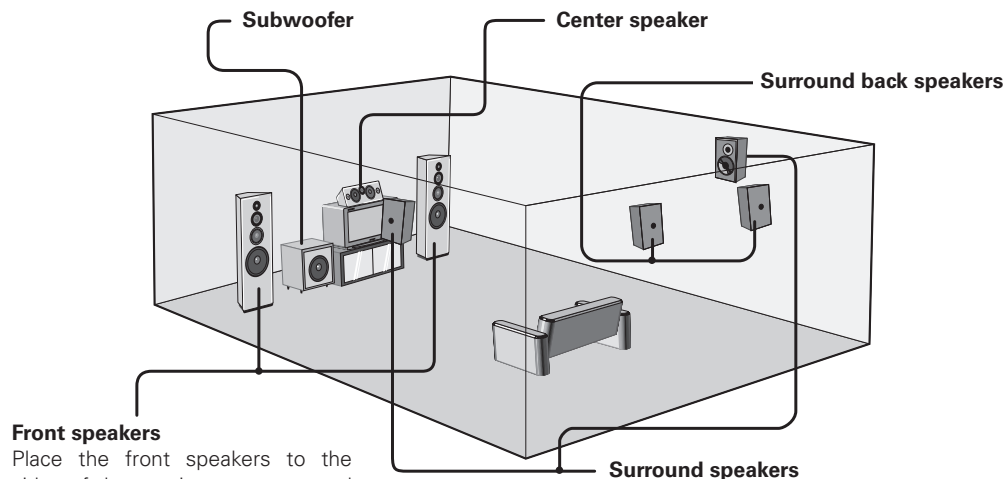
Front speakers
Place the front speakers to the sides of the monitor or screen and as flush with the screen surface as possible.

Surround speakers

The table below shows a typical speaker configuration for the AVR-3808.

	FRONT		CENTER	SURROUND A		SURROUND B		SURROUND BACK			SUBWOOFER
	L	R		L	R	L	R	L	R	1 only	
7.1-channels (Surround A+B)	◯	◯	◯	◯	◯	◯	◯	◯	◯	–	◯
7.1-channels	◯	◯	◯	◯	◯	–	–	◯	◯	–	◯
6.1-channels	◯	◯	◯	◯	◯	–	–	–	–	◯	◯
5.1-channels	◯	◯	◯	◯	◯	–	–	–	–	–	◯
3.1-channels	◯	◯	◯	–	–	–	–	–	–	–	◯
2.1-channels	◯	◯	–	–	–	–	–	–	–	–	◯
2-channels	◯	◯	–	–	–	–	–	–	–	–	–

Speaker Connections

Example: 7.1-channels (Surround A+B)
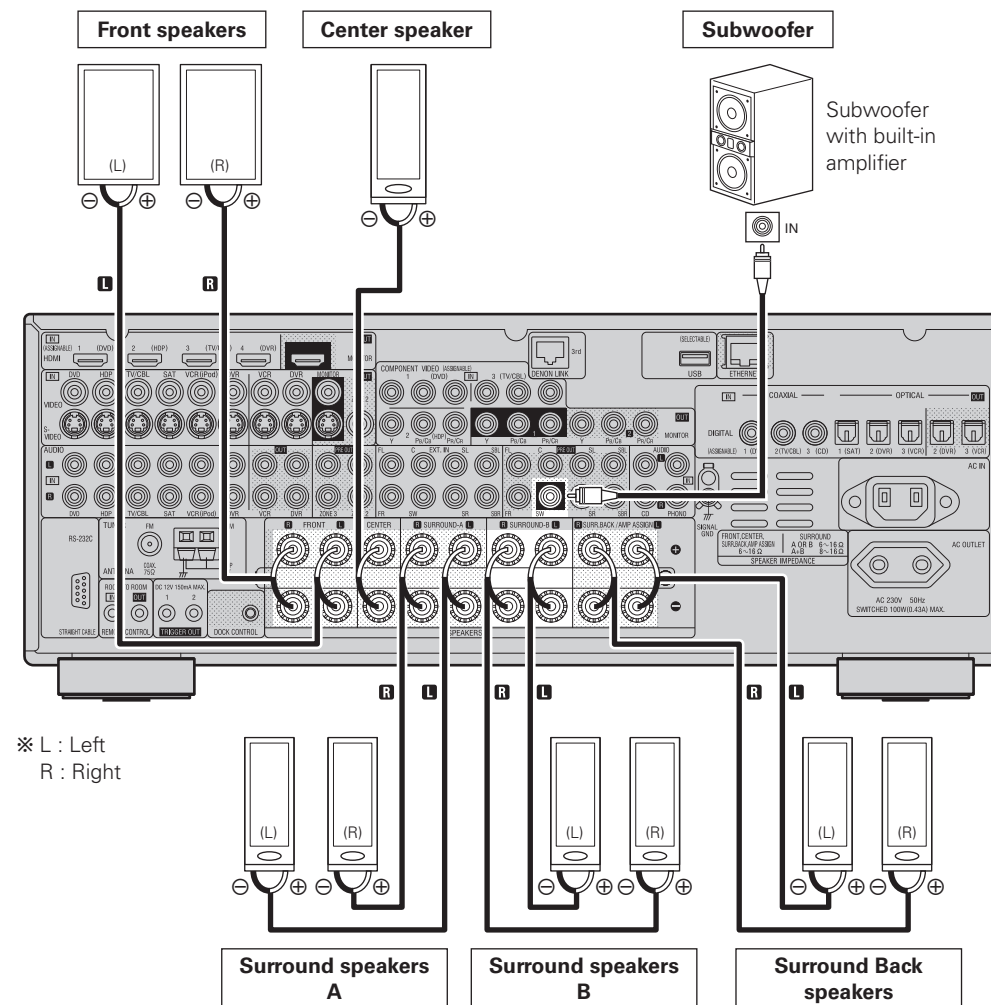
Front speakers

Center speaker

Subwoofer

Subwoofer with built-in amplifier

※ L : Left
   R : Right

Surround speakers A

Surround speakers B

Surround Back speakers

When using just one surround back speaker, connect it to the left channel (SBL).

9

Connecting the Speaker Cables
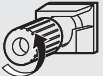
Carefully check the left (L) and right (R) channels and + (red) and – (black) polarities on the speakers being connected to the AVR-3808, and be sure to interconnect the channels and polarities correctly.

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.**
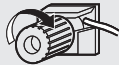
2 **Turn the speaker terminal counterclockwise to loosen it.**

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 surround A and B speakers simultaneously, use speakers with an impedance of 8 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 speakers with an impedance lower than specified (for example 4 Ω/ohms speakers) are used for an extended period of time with the volume turned up high, the temperature may rise, activating the protection circuit.

When the protection circuit is activated, the speaker output is shut off and the power indicator flashes red. If this happens, unplug the power cord, then check the speaker cable and input cable connections. If the set is extremely hot, wait for it to cool off and improve ventilation around it. Once this is done, plug the power cord back in and turn the set's power back on.

If the protection circuit is activated again even though there are no problems in the ventilation around the set nor in the connections, the set may be damaged. Turn the power off, then contact a DENON service center.

Connecting Equipment with HDMI connectors

With HDMI connections, the video and audio signals can be transferred with a single cable.

DVD player

HDMI
OUT

Monitor
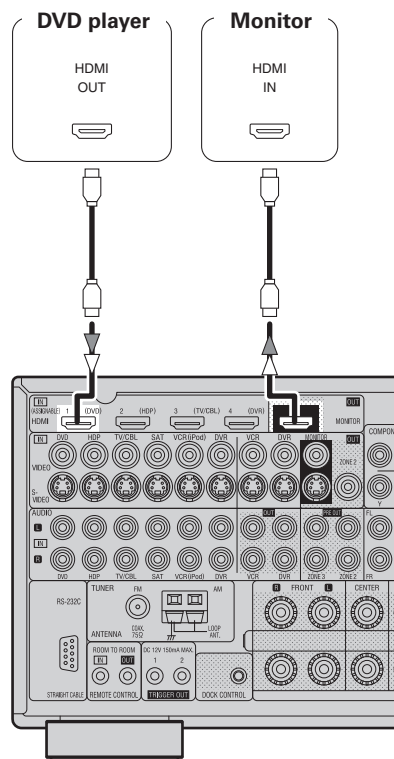
HDMI
IN

※ The AVR-3808 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-3808 is compatible with 30- and 36-bit Deep Color.

Compatible audio format	Details	Discs (examples)
2-channel linear PCM	2ch 32-192 kHz 16/20/24 bits	CD, DVD-Video, DVD-Audio
Multi-channel linear PCM	8ch 32-192 kHz 16/20/24 bits	DVD-Audio
Dolby Digital, DTS	Bitstream	DVD-Video
DSD	2/5.1ch 2.8224 MHz 1 bit	SACD
Dolby Digital Plus, Dolby TrueHD, DTS-HD	Bitstream	HD DVD, Blu-ray Disc

Copyright protection system (HDCP)

In order to play the digital video and audio signals of a DVD-Video or DVD-Audio disc using HDMI/DVI connections, both the connected DVD player and monitor must be equipped for a copyright protection system called "HDCP" (High-bandwidth Digital Content Protection).

HDCP is a copy protection technology consisting of data encoding and mutual identification of the devices.

The AVR-3808 is HDCP-compatible. For details on the DVD player or monitor you are using, refer to its operating instructions.

NOTE

• Use a CPPM-compatible DVD player to play DVD-Audio discs that are copyright-protected by CPPM.
• The AVR-3808 cannot be controlled from another device via the HDMI cable.
• The audio signals output from the HDMI connector (sampling frequency, bit rate, etc.) may be restricted by the connected device.
• Video signals are not output properly when using devices that are not HDCP-compatible.
• 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.
• If the GUI menu "Manual Setup" – "HDMI Setup" – "Audio" setting (☞ page 30) is set to "Amp", the sound may be interrupted when the monitor's power is turned off.
• 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.
• If the monitor does not support "Auto Lipsync Correction" function, this function will not work.

✎

• When the AVR-3808 and DVD player are connected using an HDMI cable, also connect the AVR-3808 and monitor using an HDMI cable.
• 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.

✎

• By default, the HDMI audio signals are output from the speakers connected to the AVR-3808.
• To output the sound from the TV, make the settings at GUI menu "Manual Setup" – "HDMI Setup" – "Audio" – "TV" (☞ page 30).

Getting Started | Connections | Setup | Playback | Remote Control | Multi-Zone | Information | Troubleshooting

Connecting the Monitor

• Connect the cables to be used (☞ page 8 "Video Conversion Function").
• With HDMI connections, the video and audio signals can be transferred with a single cable.
• To output the audio signals to the monitor with HDMI connections, set GUI menu "Manual Setup" – "HDMI Setup" – "Audio" to "TV" (☞ page 30).

Monitor

VIDEO

| HDMI IN | VIDEO IN | S VIDEO IN | COMPONENT VIDEO IN |
| | | | Y   PB   PR |
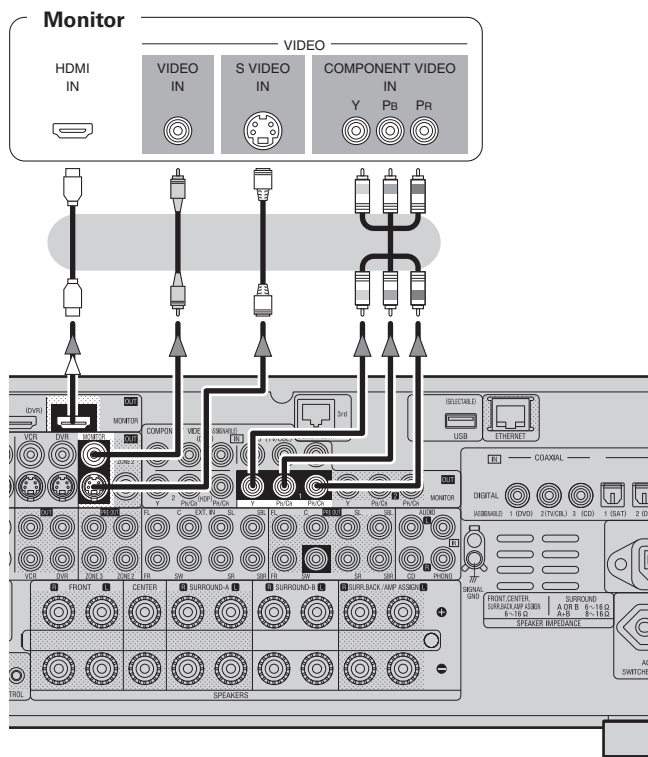
NOTE

• The component video connectors may be indicated differently on your monitor. For details, see the monitor's operating instructions.
• The audio signals output from the HDMI connectors are only the HDMI input signals.

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

• Connect the cables to be used.
• With HDMI connections, the video and audio signals can be transferred with a single cable.

DVD player

| | VIDEO | | | AUDIO | |
| HDMI OUT | VIDEO OUT | S VIDEO OUT | COMPONENT VIDEO OUT   Y PB PR | AUDIO OUT   L   R | COAXIAL OUT |

✎
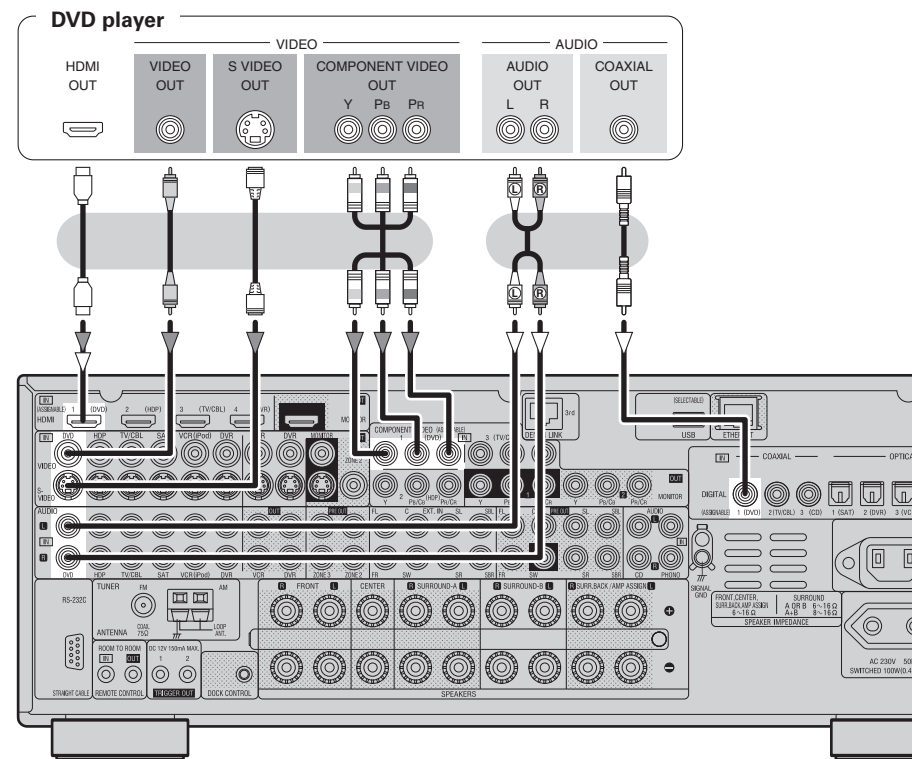
• Connect an HDP (High-Definition Player) in the same way.
• When using an optical cable for the digital audio connection, make the settings at GUI menu "Source Select" – "DVD" – "Assign" – "Digital" (☞ page 39).

Record Player

Turntable (MM cartridge)

AUDIO
OUT

GND

✎
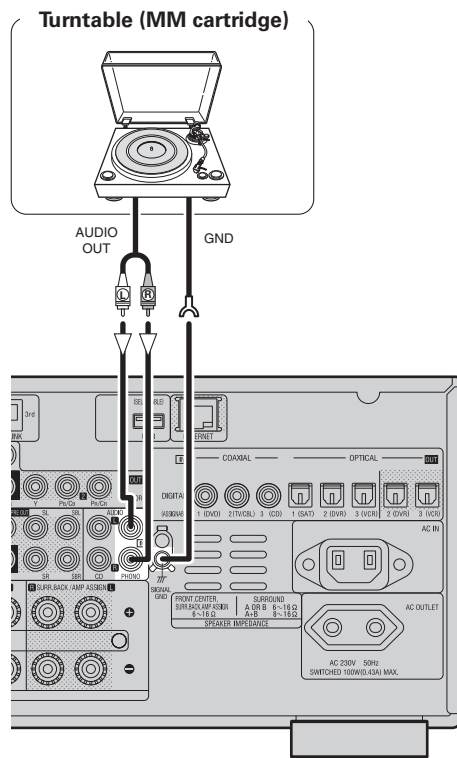
• When connecting a record player with an MC cartridge, use a commercially available MC head amplifier or a step-up transformer.
• Induction humming (a booming sound) may be produced from the speakers if the volume is raised with no record player connected.
• With some record players, noise may be generated when the ground wire is connected. If so, disconnect the ground wire.

NOTE

The AVR-3808's SIGNAL GND terminal is meant to reduce noise when a record player is connected. This is not a safety ground terminal.

CD Player

Connect the cables to be used.
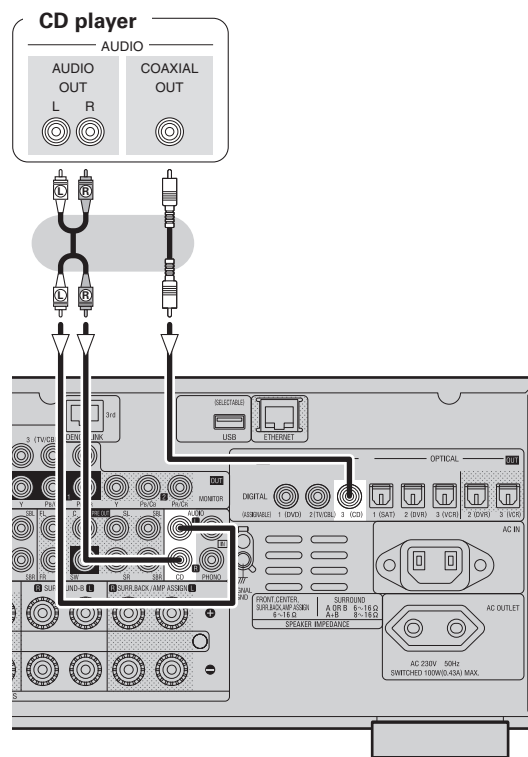
CD player

AUDIO

| AUDIO OUT | COAXIAL OUT |
| L R | |

✎

When using an optical cable for the digital audio connection, make the settings at GUI menu "Source Select" – "CD" – "Assign" – "Digital" (☞ page 39).

iPod®

Use a DENON Control Dock for iPod (ASD-1R, sold separately) to connect the iPod to the AVR-3808. For instructions on the Control Dock for iPod settings, refer to the Control Dock for iPod's operating instructions.

Example :

iPod

ASD-1R

✎
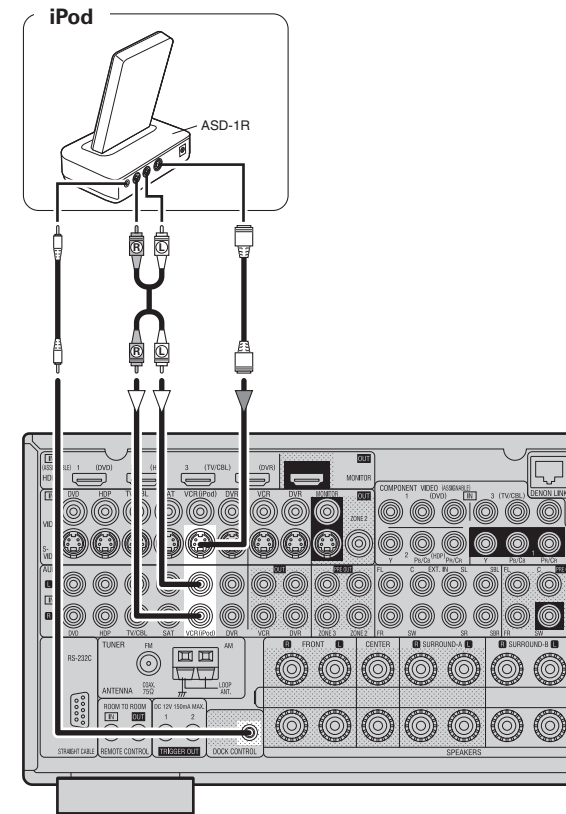
• With the default settings, the iPod can be used connected to the VCR (iPod) connector.
• To assign the iPod to a connector other than VCR (iPod), make the settings at GUI menu "Source Select" – "(input source to which iPod dock assigned)" – "Assign" – "iPod dock" (☞ page 39).

Getting Started | Connections | Setup | Playback | Remote Control | Multi-Zone | Information | Troubleshooting

13

TV/CABLE Tuner

Connect the cables to be used.
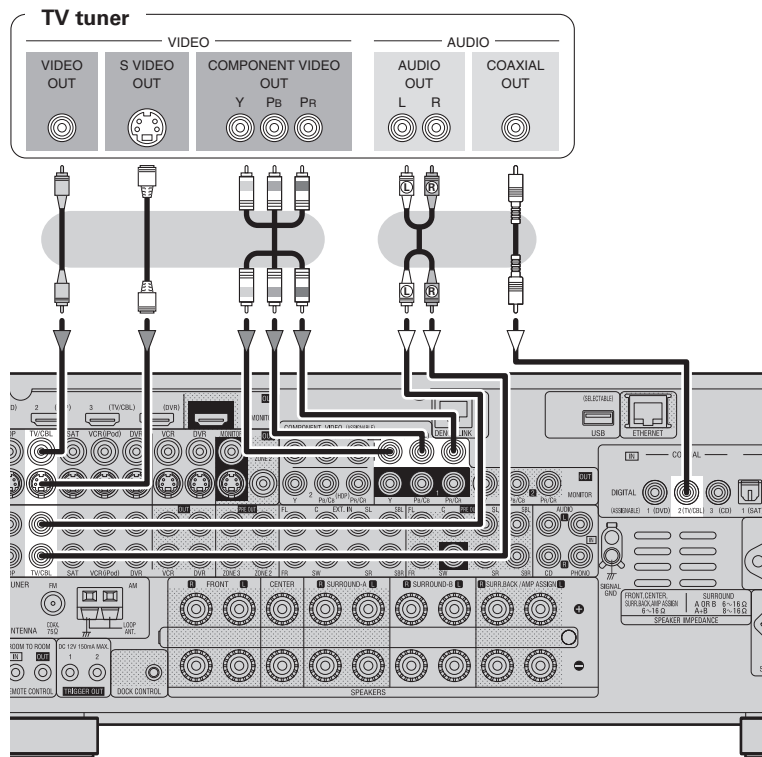
TV tuner

VIDEO

| VIDEO OUT | S VIDEO OUT | COMPONENT VIDEO OUT |
| Y | PB | PR |

AUDIO

| AUDIO OUT | COAXIAL OUT |
| L | R |

When using an optical cable for the digital audio connection, make the settings at GUI menu "Source Select" – "TV/CBL" – "Assign" – "Digital" (☞ page 39).

Satellite Receiver

Connect the cables to be used.

DBS / BS tuner

VIDEO

| VIDEO OUT | S VIDEO OUT |

AUDIO

| AUDIO OUT | OPTICAL OUT |
| L | R |
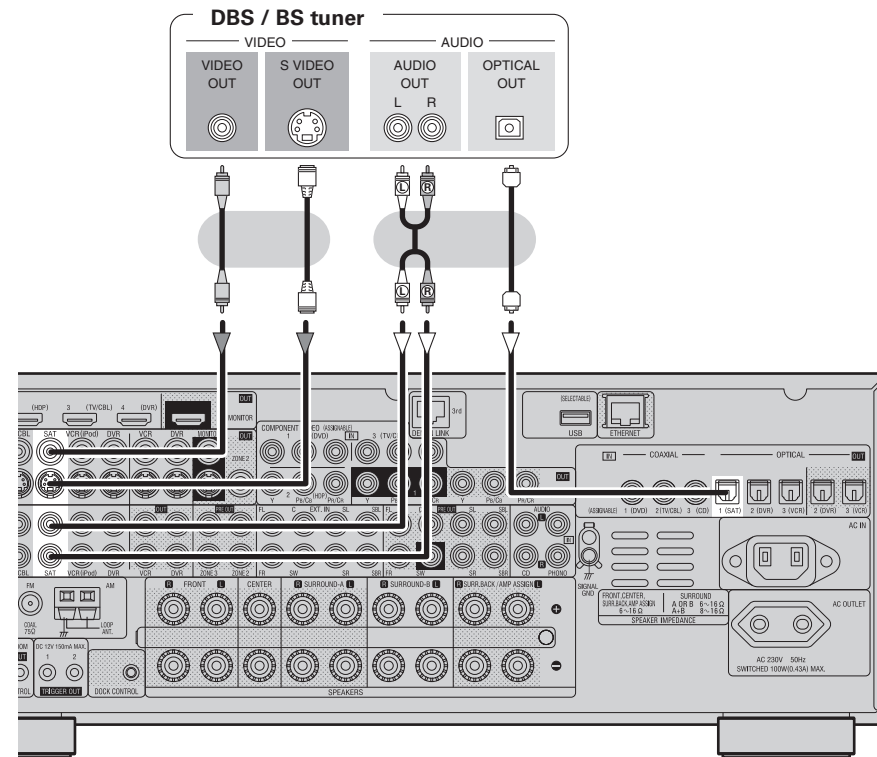
• When using a coaxial digital cable for the digital audio connection, make the settings at GUI menu "Source Select" – "SAT" – "Assign" – "Digital" (☞ page 39).
• When using a component video cable for the video connection, make the settings at GUI menu "Source Select" – "SAT" – "Assign" – "Component" (☞ page 39).

14

Connecting the Recording Components

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

Digital Video Recorder

Connect the cables to be used.

✎
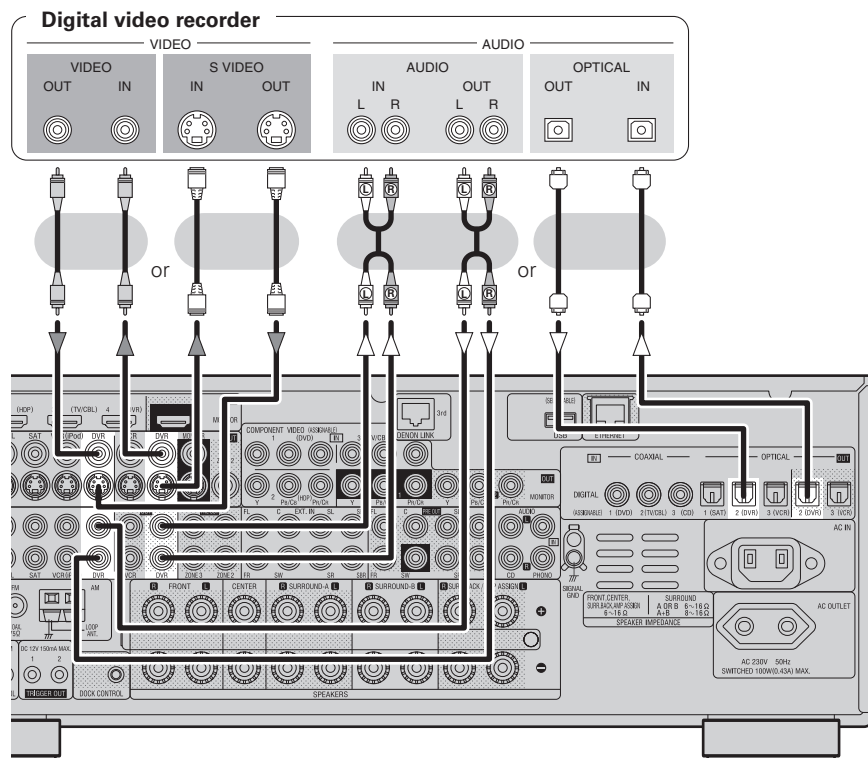
• Make analog connections if you wish to record analog audio signals.
• When recording via the AVR-3808, the playback device's cable must be of the same type as the cable used to connect the AVR-3808's DVR OUT connector.
  Example: TV IN → S-Video cable : DVR OUT → S-Video cable
             TV IN → Video cable : DVR OUT → Video cable
• When using a component video cable for the video connection, make the settings at GUI menu "Source Select" – "DVR" – "Assign" – "Component" (☞page 39).

NOTE

Do not connect the output of the component connected to the AVR-3808's OPTICAL2 output connector to any input connector other than OPTICAL2.

Video Cassette Recorder

Connect the cables to be used.
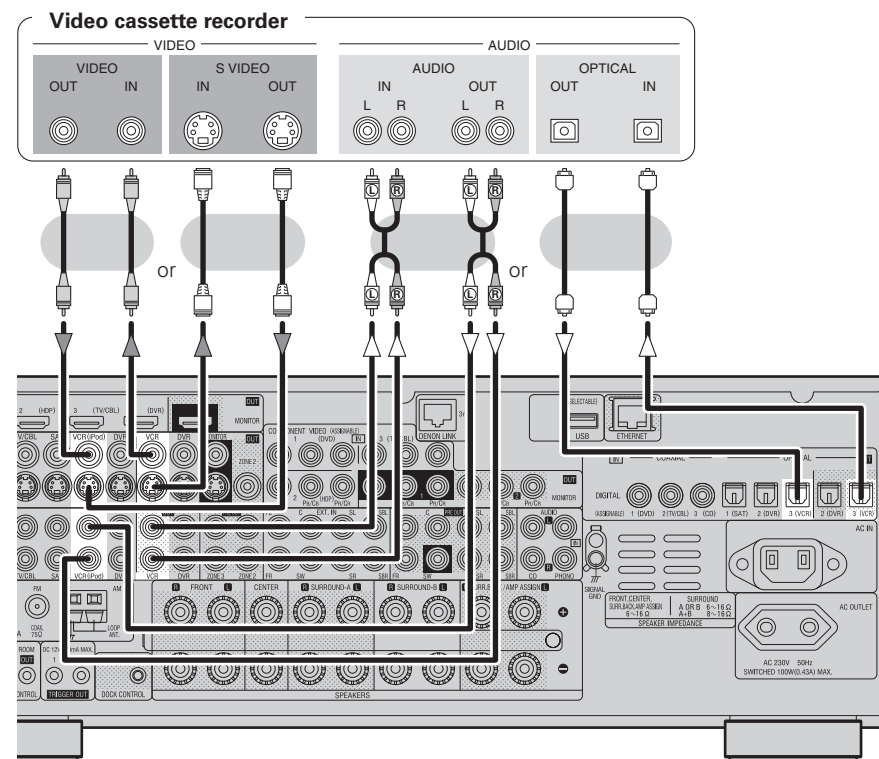
✎

• When recording via the AVR-3808, the playback device's cable must be of the same type as the cable used to connect the AVR-3808's VCR OUT connector.
  Example: TV IN → S-Video cable : VCR OUT → S-Video cable
             TV IN → Video cable : VCR OUT → Video cable
• When using a component video cable for the video connection, make the settings at GUI menu "Source Select" – "VCR" – "Assign" – "Component" (☞page 39).

NOTE

Do not connect the output of the component connected to the AVR-3808's OPTICAL3 output connector to any input connector other than OPTICAL3.

Getting Started | Connections | Setup | Playback | Remote Control | Multi-Zone | Information | Troubleshooting

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Getting Started | Connections | Setup | Playback | Remote Control | Multi-Zone | Information | Troubleshooting

CD Recorder / MD Recorder / Tape Deck

Make analog connections if you wish to record analog audio signals, or digital connections if you wish to record digital audio signals, depending on the types of connectors on the components being used.
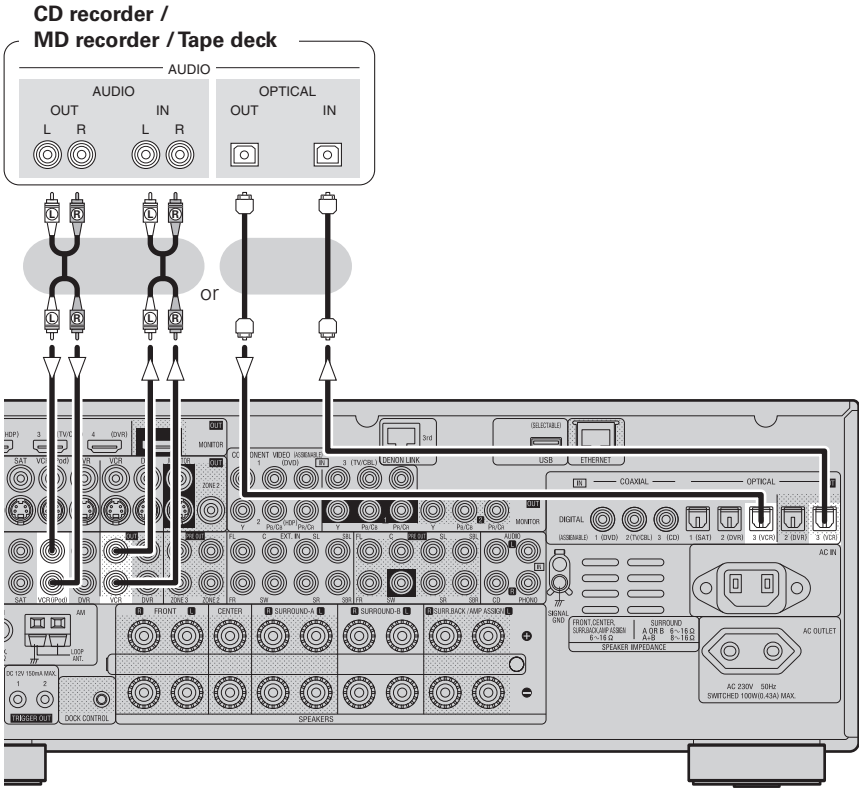
CD recorder / MD recorder / Tape deck

NOTE

Do not connect the output of the component connected to the AVR-3808's OPTICAL3 output connector to any input connector other than OPTICAL3.

Connections to Other Devices

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

Components Equipped with a DENON LINK connector

Multi-channel playback is possible with DVD-Audio discs, Super Audio CD, etc.

DVD player
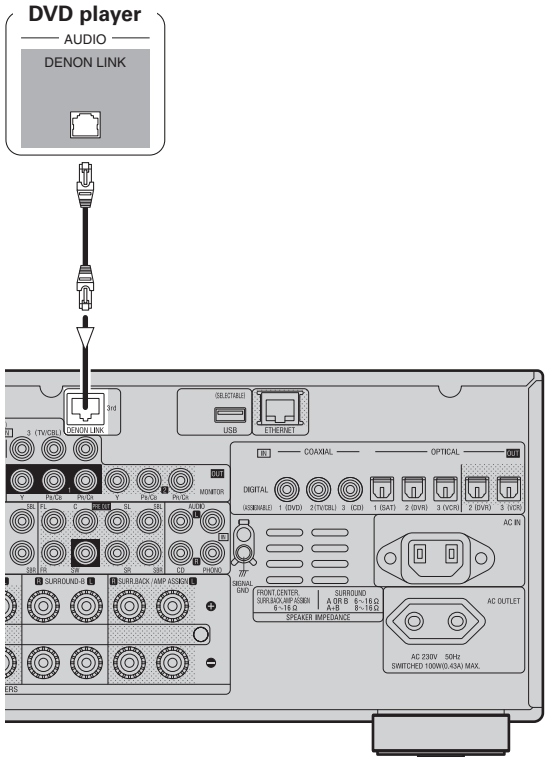
To use with DENON LINK connections, make the settings at GUI menu "Source Select" – "Assign" – "Digital" – "DENON LINK" (☞ page 39).

16

Video Camera / Game Console

Video camera / Game console
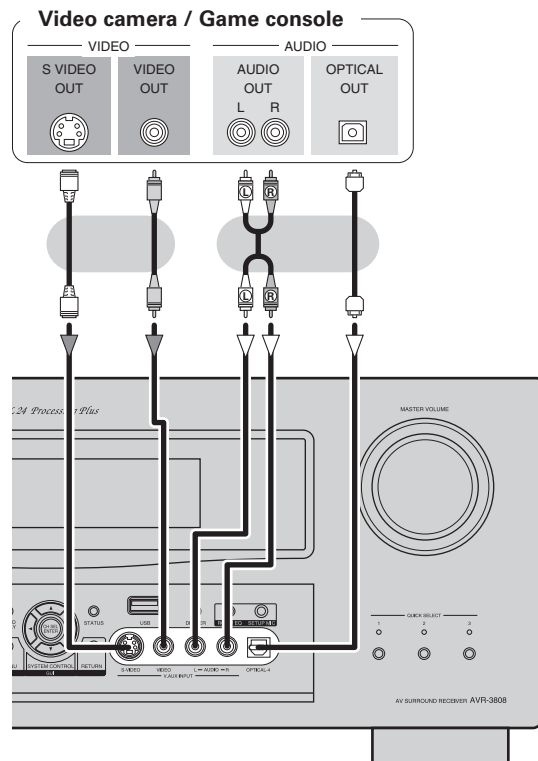
Component with Multi-channel Output connectors

DVD player / Super Audio CD player / External decoder
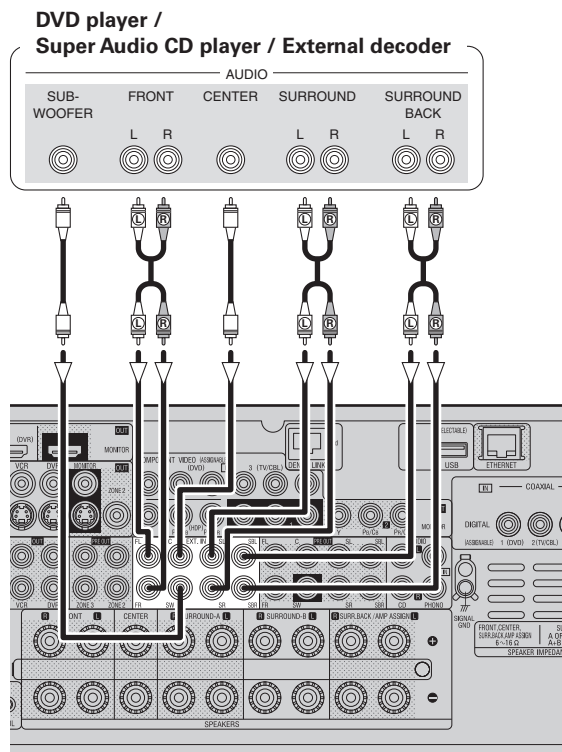
✐
- To play the analog input signals input to the EXT. IN connectors, press the **INPUT MODE** button on the main unit or **INPUT** button on the main remote control unit and select "EXT. IN" or make the settings at GUI menu "Source Select" – "(input source)" – "Input Mode" – "Input Mode" – "EXT. IN" (☞ page 38).
- The video signal can be connected in the same way as a DVD player (☞ page 12).
- To play copyright-protected discs, connect the AVR-3808's EXT. IN connector with the DVD player's analog multi-channel output connector.

External Power Amplifier
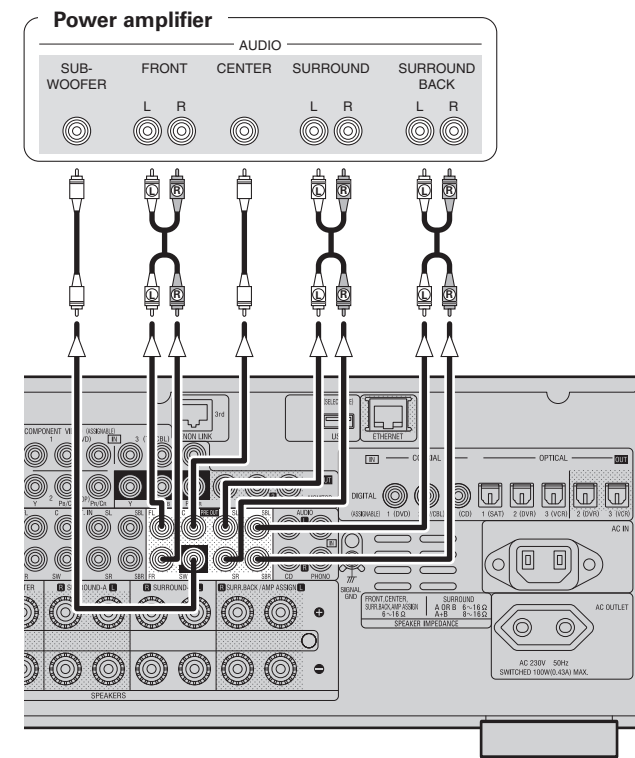
Power amplifier

✐
When using just one surround back speaker, connect it to the left channel (SBL).

Getting Started

Connections

Setup

Playback

Remote Control

Multi-Zone

Information

Troubleshooting

USB Port

❏ **Front panel**

USB memory device
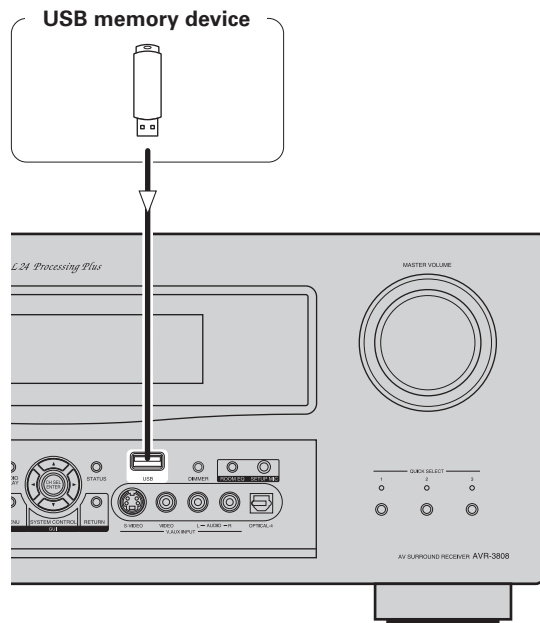
❏ **Rear panel**
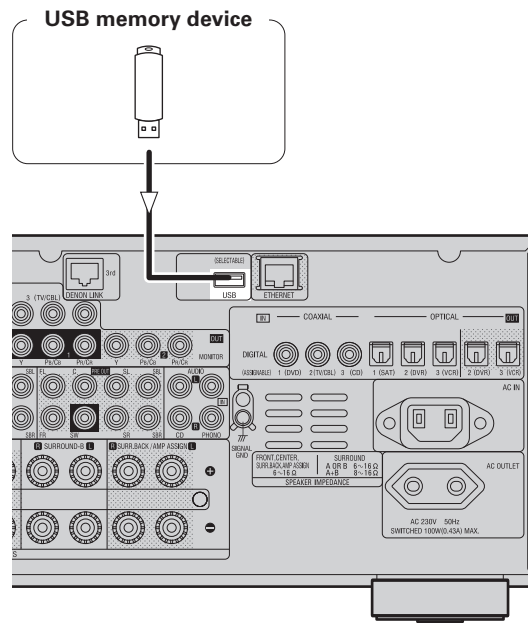
USB memory device

• In the initial status, USB memory devices can be used by connecting them to the USB port on the front panel.
• To change the port to be used, see "USB Select" on page 40.
• For instructions on playing the files on a USB memory device, see page 56.

NOTE

• Set to the USB port you want to use.
• The AVR-3808 is equipped with two USB ports, one each on the front and rear panels. It is not possible to use the set with USB memory devices connected to both the ports at the same time. Select the USB port you want to use at the GUI menu "Source Select" – "NET/USB" – "Playback Mode" – "USB Select".

• Do not use the extension cable for connecting the USB memory device to the AVR-3808's USB port.
  Use of the extension cable may cause harmful interference.

Antenna terminals

An FM antenna cable plug can be connected directly.

Direction of broadcasting station

FM antenna

AM loop antenna
(supplied)

75 Ω/ohms
Coaxial cable

FM indoor antenna
(supplied)

Ground

AM outdoor antenna
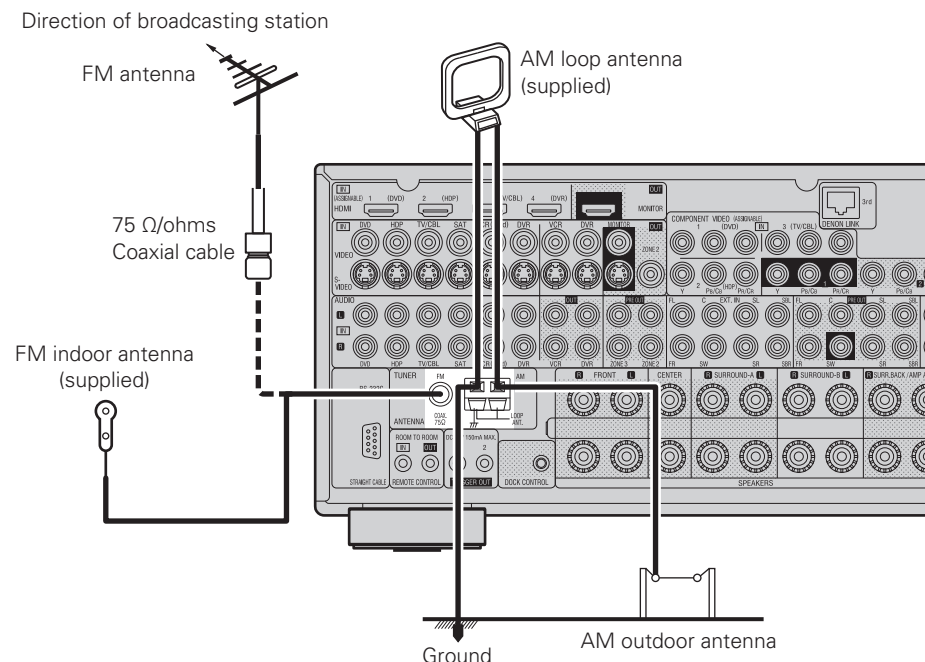
AM loop antenna assembly

① Remove the vinyl tie and take out the connection line.

② Connect to the AM antenna terminals.

③ Bend in the reverse direction.

④ a. With the antenna on top of any stable surface.

Mount

b. With the antenna attached to a wall.

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.

Network Audio

Computer

Modem

Internet

To WAN side

To LAN port

To LAN port

LAN port/
Ethernet
connector

Router
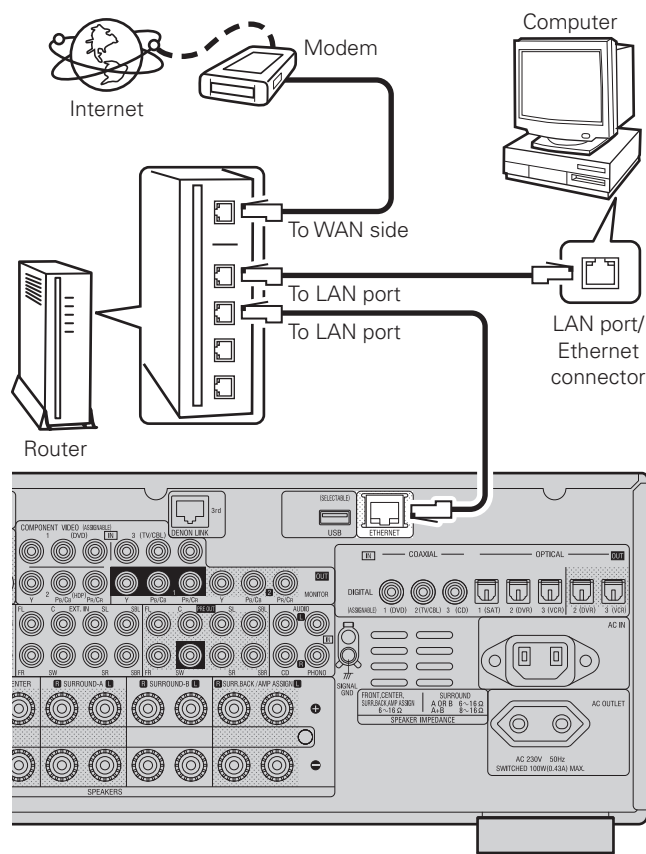
Required system

❏ Broadband Internet connection

A broadband line connection to the Internet is required in order to use the AVR-3808's Internet radio function and firmware update.

❏ Modem

This is a device that is connected to the broadband line to communicate with the Internet. Some are integrated with the router.

❏ Router

When using the AVR-3808, we recommend you use a router equipped with the following functions:
• Built-in DHCP (Dynamic Host Configuration Protocol) server
  This function automatically assigns IP addresses on the LAN.
• Built-in 100BASE-TX switch
  When connecting multiple devices, we recommend a switching hub with a speed of 100 Mbps or greater.

❏ Ethernet cable (CAT-5 or greater recommended)

• The AVR-3808 does not come with an Ethernet cable.
• Some flat type Ethernet cables are easily affected by noise.
  We recommend using a normal type cable.
• For the Ethernet cable, used a shielded twisted pair (STP) cable.
  Do not use an unshielded twisted pair (UTP) cable, as it may exceed noise standard limits.

❏ Computer

A computer with the following specifications is required to use a music server:
• OS
  Windows® XP Service Pack2, Windows Vista
• Software (Prepare one of the following.)
  · .NET Framework 1.1 and Windows Media Connect (Windows XP)
  · Windows Media Player ver.11
  · DLNA-compatible server software
• Internet browser
  Microsoft Internet Explorer 5.01 or later
• LAN port
• 300 MB or more free disk space

※ Free disk space is required to store music files. The following sizes are approximate.

Format	Bit rate	Per minute	Per hour
MP3 / WMA	128 kbps	Approx. 1 MB	Approx. 60 MB
	192 kbps	Approx. 1.5 MB	Approx. 90 MB
MPEG-4 AAC	256 kbps	Approx. 2 MB	Approx. 120 MB
	392 kbps	Approx. 3 MB	Approx. 180 MB
WAV (LPCM)	1400 kbps	Approx. 10 MB	Approx. 600 MB
FLAC	1080 kbps	Approx. 7.7 MB	Approx. 464 MB

For connections to the Internet, contact an ISP (Internet Service Provider) or a computer shop.

NOTE

• A contract with an ISP is required to connect to the Internet.
  No additional contract is needed if you already have a broadband connection to the Internet.
• The types of routers that can be used depend on the ISP. Contact an ISP or a computer shop for details.
• Depending on the server, video files may be displayed, but they cannot be played on the AVR-3808.

❏ Others

• If you have an Internet provider contract for a line on which network settings are made manually, make the settings at GUI menu "Manual Setup" – "Network Setup" (☞ page 32, 33).
• With the AVR-3808, it is possible to use the DHCP and Auto IP functions to make the network settings automatically.
• When using a broadband router (DHCP function), the AVR-3808 sets the IP address, etc., automatically.
  When using the AVR-3808 connected to a network with no DHCP function, make the settings for the IP address, etc., at GUI menu "Manual Setup" – "Network Setup" (☞ page 32, 33).
• The AVR-3808 is not compatible with PPPoE. A PPPoE-compatible router is required if you have a contract for a line of the type with which the PPPoE is set.
• Depending on the ISP with which you have your contract, it may be necessary to make proxy server settings to use the Internet radio function. If you made proxy server settings on the computer to connect to the Internet, make the proxy server settings on the AVR-3808 in the same way.

Multi-Zone

ZONE2 or ZONE3 Pre-out Connections

• If another power amplifier or pre-main (integrated) amplifier is connected, the ZONE2 or ZONE3 pre-out (variable or fixed level) connectors can be used to play a different program source in ZONE2 or ZONE3 the same time (☞ page 69 ~ 72).
• When using an S-Video cable or a video cable for connection between the AVR-3808 and an input device, connect to the video connectors.
• The ZONE2 video out is only for ZONE2.

Monitor (ZONE2)
— VIDEO —
VIDEO
IN

Power amplifier (ZONE2 or ZONE3)
— AUDIO —
AUDIO
IN
L R

AUX OUT
Input
Output

Infrared retransmitter
Infrared sensor

Extension jack for future use.
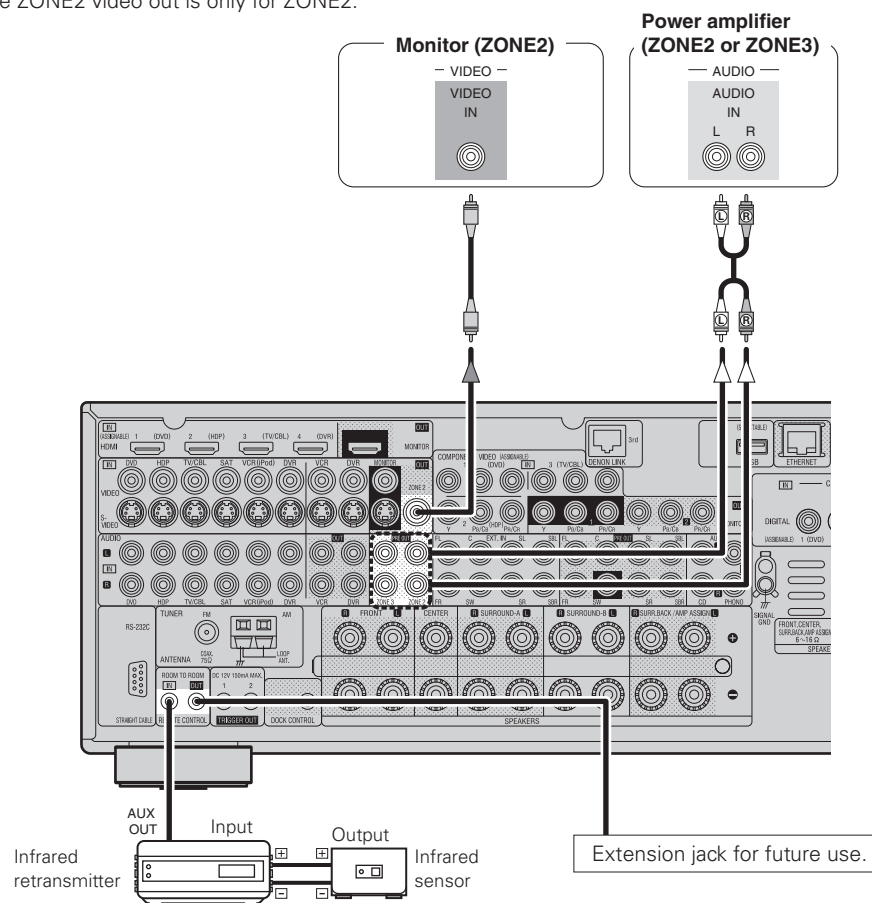
NOTE

• For the audio output, use high quality pin-plug cords so that no induction humming or noise is produced.
• For instructions on installing and operating separately sold devices, refer to the respective devices' operating instructions.
• To conduct multi-zone playback, see "Amp Assign / Multi-Zone Connections and Operations" (☞ page 69 ~ 72).

External Controller
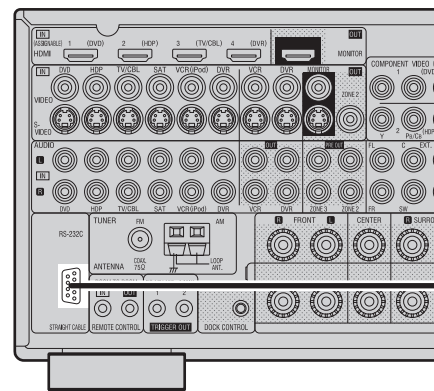
RS-232C connector

This connector is used for an external controller.

※ If you wish to control the AVR-3808 from an external controller using the RS-232C connector, perform the operation below beforehand.
① Turn the AVR-3808's power.
② Turn off the AVR-3808's power from the external controller.
③ Check that the AVR-3808 is in the standby mode.

✎

• When using in combination with an RF Remote Controller (RC-7000CI, sold separately) or RF Remote Receiver (RC-7001RCI, sold separately) two-way communication with an RF Remote Controller is possible.
The AVR-3808's status information as well as iPod and Internet audio music files can be browsed watching the RF Remote Controller's display. For details, refer to the operating instructions of the respective devices.
• When used in combination with an RF Remote Controller or RF Remote Receiver, make the settings at GUI menu "Manual Setup" – "Option Setup" – "2Way Remote" – "Used" (☞ page 35).
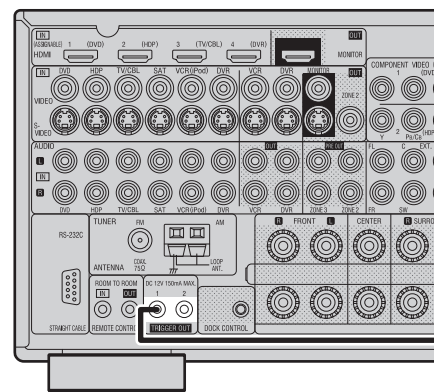
Trigger output jacks

The power of an external device equipped with a trigger input jack can be turned on and off in association with operations on the AVR-3808. For details, see GUI menu "Manual Setup" – "Option Setup" – "Trigger Out 1" or "Trigger Out 2" (☞ page 35).

• Output level: 150 mA/12 V
Check the trigger input conditions of the connected device.

• If the trigger input level of the connected device is higher than 150 mA/12 V and depending on the short-circuiting conditions, the AVR-3808's protection circuit may be activated, in which case "TRIGGER PROTECT" appears on the display. If this happens, turn off the AVR-3808's power and disconnect the connected device.

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Connecting the Power Cord

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

Power cord
(included)

To household
power outlet
(AC 230 V, 50 Hz)

Connection to the AC outlet

• This outlet supply power to external audio devices.
• The power supplied from these outlets turns on and off together with the set's power switch.
• Audio equipment with a total power consumption of 100 W (0.43 A) can be connected.
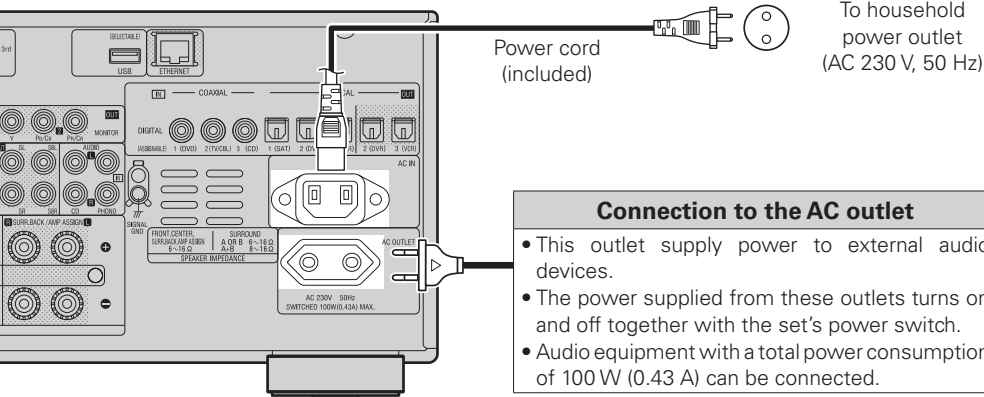
NOTE

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

Once Connections are Completed

Turning the Power On (☞ page 47)

GUI Menu Operations

With the AVR-3808, settings and operations for most functions can be performed by operating while looking at the GUI menus displayed on the monitor screen.

The GUI cannot be superimposed when xvYCC signals and component 1080p signal, computer's resolution (e.g. VGA) are input.

Example of the Display of the GUI Mark at a Title

Items for which this mark is indicated at the title can be operated from the GUI.
We recommend performing such operations from the GUI.

Auto Setup

Optimize settings for speakers in use.

GUI

This is the GUI icon for this setting item or for the menu series to which this item belongs.

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]   7.1 (B)   7.1   5.1

22

Examples of GUI Screen Displays

Some typical examples are described below.

Example: Browse Menu (Top Menu)

- DENON
- SOURCE SELECT
- **Selected item name**
- TUNER
- PHONO
- CD
- DVD
- HDP
- TV/CBL
- **List of subsequent items**
- **Guidance text for item at cursor position**
- Select input source and make playback settings
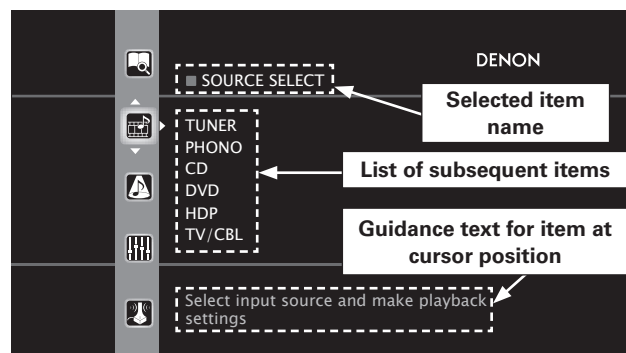
Example: Menus with Illustrations (Auto Setup)

- **Operation guidance text**
- **Operation step indicators**

AUTO SETUP   AUDYSSEY MULTEQ XT   DENON

STEP1 Speaker Detection
Please place the microphone at ear height at main listening position.   1 2 3 4 5

- **Illustration**

Start
Config   7.1(B)

Amp Assign

Start Auto Setup

◉ Enter   RETURN Cancel

- **Guidance text for item at cursor position**
- **Operation button guidance**
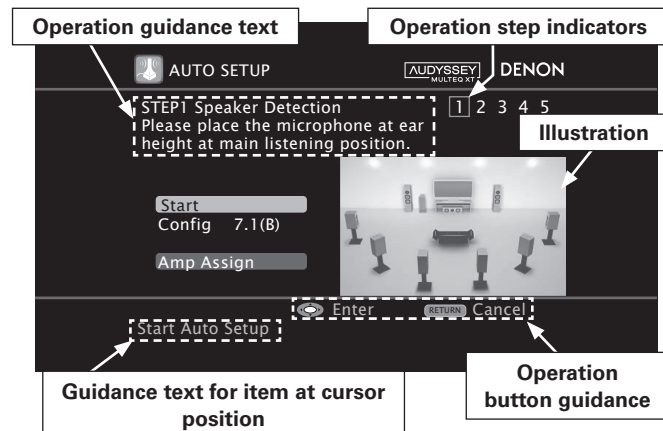
Cursor Position Display

❏ **Icon**

- **Switch the selected item**
- **Switch to the next item**
- **Selected item**
- **Switch the selected item**

❏ **List**

- **Selected item**

Assign
Input Mode
Rename
Other

- **Switch to the next item**

※ Switch the selected item using △▽.
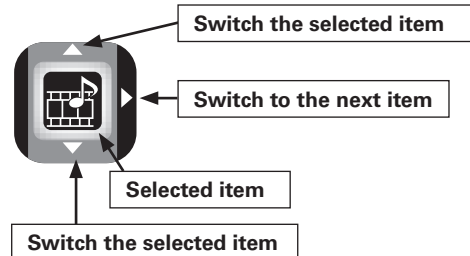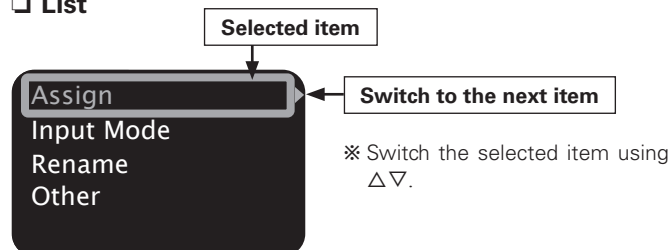
Operations

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

1 **Press the MENU button.**
The GUI menu is displayed.

※ To operate from the main remote control unit, be sure to set the remote control unit to the AMP mode.

2 **Press the △ ▽ ▷ button to select the menu to be set or operated.**

※ To return to the previous item, press the ◁ or RETURN button.

3 **Press the ENTER button to enter the setting.**

4 **Press the MENU button to finish.**

✎

When "Screensaver" is set to "ON", the screensaver is activated if no operation is performed for about 3 minutes.

23

Getting Started | Connections | Setup | Playback | Remote Control | Multi-Zone | Information | Troubleshooting

GUI Menu Map

Information (☞page 45, 46)

❏ **Status**
  • **MAIN ZONE**
  • **ZONE2/3**
❏ **Audio Input Signal**
❏ **HDMI Information**
❏ **Auto Surround Mode**
❏ **Quick Select**
❏ **Preset Station**

Parameter (☞page 42 ~ 45)

❏ **Audio**
  • **Surround Parameters**
    · **Mode**
    · **Cinema EQ**
    · **DRC**
    · **D.COMP**
    · **LFE**
    · **Center Image**
    · **Panorama**
    · **Dimension**
    · **Center Width**
    · **Delay Time**
    · **Effect**
    · **Effect Level**
    · **Room Size**
    · **AFDM**
    · **SB CH Out**
    · **Subwoofer Att.**
    · **Subwoofer**
    · **Default**
  • **Tone**
    · **Tone Defeat**
    · **Bass**
    · **Treble**
  • **Room EQ**
  • **RESTORER**
  • **Night Mode**
  • **Audio Delay**
❏ **Picture Adjust**
  • **Contrast**
  • **Brightness**
  • **Chroma Level**
  • **Hue**

Source Select (☞page 37 ~ 40)

❏ **TUNER (FM/AM)**
  • **Play**
  • **Auto Preset**
  • **Preset Skip**
  • **Preset Name**
  • **Input Mode**
  • **Rename**
  • **Other**
    · **Video Select**
    · **Source Level**

❏ **PHONO**
  • **Input Mode**
  • **Rename**
  • **Other**
    · **Video Select**
    · **Source Level**

❏ **CD, DVD, HDP, TV/CBL,**
  SAT, VCR, DVR, V.AUX
  • **Play (iPod)**
  • **Playback Mode (iPod)**
  • **Assign**
  • **Input Mode**
  • **Rename**
  • **Other**
    · **Video Select**
    · **Video Convert** (Excluding CDs)
    · **Source Level**

❏ **NET/USB**
  • **Play**
  • **Playback Mode**
  • **Input Mode**
  • **Rename**
  • **Other**
    · **Video Select**
    · **Source Level**

Surround Mode (☞page 40, 41)

❏ **STEREO**
❏ **DIRECT**
❏ **STANDARD**
❏ **DOLBY PLⅡx, DOLBY PLⅡ or**
  DOLBY PL
❏ **DTS NEO:6**
❏ **7CH STEREO**
❏ **WIDE SCREEN**
❏ **SUPER STADIUM**
❏ **ROCK ARENA**
❏ **JAZZ CLUB**
❏ **CLASSIC CONCERT**
❏ **MONO MOVIE**
❏ **VIDEO GAME**
❏ **MATRIX**
❏ **VIRTUAL**

Auto Setup (☞page 25 ~ 27)

❏ **Auto Setup**
  • **STEP1: Speaker Detection**
  • **STEP2: Measurement**
  • **STEP3: Calculation**
  • **STEP4: Check**
  • **STEP5: Store**

❏ **Option**
  • **Room EQ**
  • **Direct Mode**
  • **Mic Select**

❏ **Parameter**
  • **Speaker Configuration Check**
  • **Distance Check**
  • **Channel Level Check**
  • **Crossover Check**
  • **EQ Check**
  • **Restore**

Manual Setup (☞page 28 ~ 36)

❏ **Speaker Setup** (☞page 28, 29)
  • **Speaker Configuration**
  • **Subwoofer Mode**
  • **Distance**
  • **Channel Level**
  • **Crossover Frequency**
  • **Surround Speaker**
❏ **HDMI Setup** (☞page 30)
  • **i/p Scaler**
  • **Resolution**
  • **Progressive Mode**
  • **Aspect**
  • **Color Space**
  • **RGB Range**
  • **Auto Lip Sync**
  • **Audio**
❏ **Audio Setup** (☞page 30, 31)
  • **EXT. IN Setup**
    · **Surround Speaker**
    · **Subwoofer Level**
  • **2ch Direct/Stereo**
  • **Downmix Option**
  • **Auto Surround**
  • **Manual EQ**

❏ **Network Setup** (☞page 32, 33)
  • **Network Setup**
  • **Other**
    · **Power Saving**
    · **Character**
    · **PC Language**
  • **Network Information**
❏ **Zone Setup** (☞page 33)
  • **ZONE2**
    · **Bass**
    · **Treble**
    · **HPF**
    · **Lch Level**
    · **Rch Level**
    · **Channel**
    · **Volume Level**
    · **Volume Limit**
    · **Power On Level**
    · **Mute Level**
  • **ZONE3**
    · **Bass**
    · **Treble**
    · **HPF**
    · **Lch Level**
    · **Rch Level**
    · **Channel**
    · **Volume Level**
    · **Volume Limit**
    · **Power On Level**
    · **Mute Level**

❏ **Option Setup** (☞page 34 ~ 36)
  • **Amp Assign**
  • **Volume Control**
    · **Volume Limit**
    · **Power On Level**
    · **Mute Level**
  • **Source Delete**
  • **GUI**
    · **Screensaver**
    · **Wall Paper**
    · **Format**
    · **Text**
    · **Master Volume**
    · **NET/USB**
    · **iPod**
    · **Tuner**
  • **Quick Select Name**
  • **Trigger Out 1**
  • **Trigger Out 2**
  • **Remote ID**
  • **2Way Remote**
  • **Dimmer**
  • **Setup Lock**
  • **Maintenance Mode**
  • **Firmware Update**
❏ **Language** (☞page 36)

24

GUI

Auto Setup

- Audyssey MultEQ® XT automatically measures the acoustical problems in the listening environment to create the best audio experience for your home theater.
- It optimizes a large listening area where one or more listeners are seated.

  Measurements are performed by placing the calibrated microphone (DM-A405) successively at multiple positions throughout the listening area as shown in **Example** ①. For best results, it is strongly recommended to measure 6 or more 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

(■:Measuring positions)
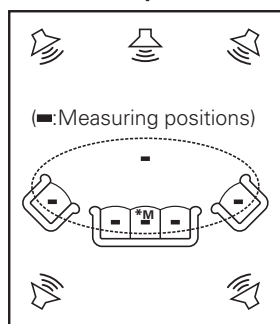
Example ②
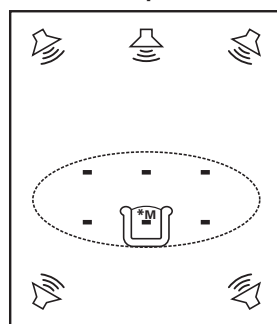
About the main listening position (*M)

The main listening position refers to the most central position where one would normally sit within the listening environment.
MultEQ XT 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 page 28, 29.

Preparations

1 **Connect the included calibrated setup microphone to the SETUP MIC jack on the main unit.**
The auto setup screen appears automatically.

Sound receptor
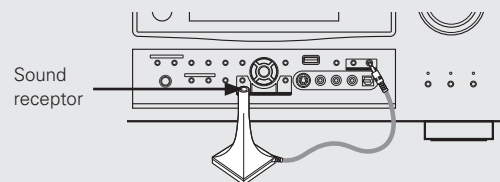
2 **Place the microphone at ear height on a tripod or stand with the microphone pointing directly up towards the ceiling.**

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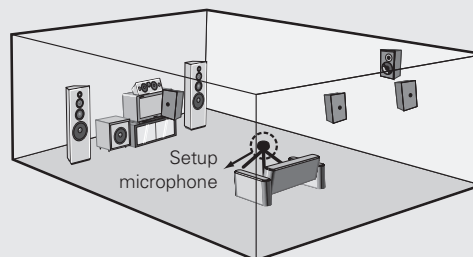
※ It is not recommended to hold it in your hand. Be sure that the path from microphone to the speakers is not blocked by objects. Avoid placing the microphone close to a seat back or wall as sound reflections may give inaccurate results.

✎

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.

left sidebar

Auto Setup   GUI

Optimize settings for speakers in use.

● Menu tree ●

Auto Setup

1 Auto Setup

2 Option

3 Parameter

1 Auto Setup

The settings are performed automatically.

【Auto setup flow】

STEP1: Speaker Detection

⬇

STEP2: Measurement (2 to 8 positions)

⬇

STEP3: Calculation

⬇

STEP4: Check

⬇

STEP5: Store
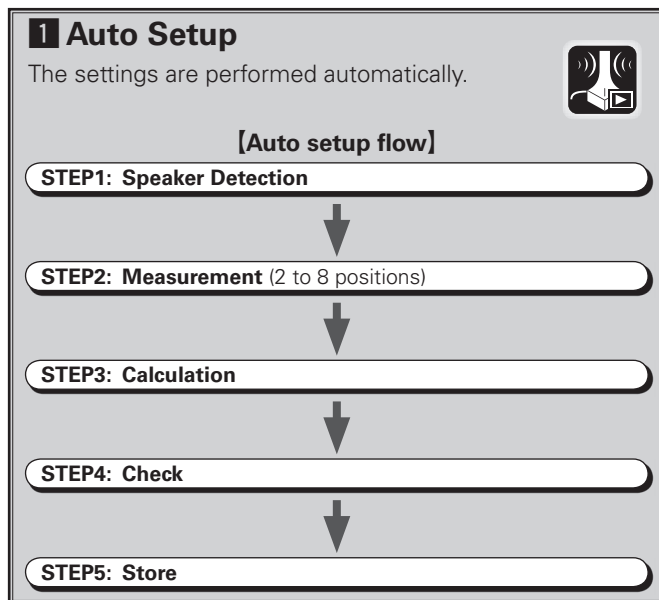
Start

Start Auto Setup.

The Audyssey MultEQ XT Auto Setup process automatically calculates the size, level, distance, bass management crossover frequency, and optimal settings for each speaker and subwoofer. Audyssey MultEQ XT corrects acoustical distortions within the listening area.

Before starting, connect and position all your speakers.

Once started, MultEQ XT will play a series of test tones through each speaker.

If an error message appears during the measurements, check "Error Messages" (☞page 27), take the advised action, then start the measurements again.

Configuration

The speaker system to be measured can be selected ahead of time here.

[Selectable items]   7.1 (B)   7.1   5.1

Setting the correct speaker configuration can reduce the time required to measure during the auto setup procedure as the system will not have to look for speakers that are not connected.

Amp Assign

Advanced setting : changes power amplifier assignment.

NOTE

The items selectable at "Configuration" differ according to the "Amp Assign" settings.

STEP1 : Speaker Detection

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

Once the measurements are completed, the results are displayed.

NOTE

• Loud test tone may be played during Audyssey MultEQ XT Automatic Speaker Setup. This is part of normal operation. If there is background noise in room, these test tones 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.
• Quiet the listening environment before beginning measurements and refrain from talking. Turn off air conditioning units or other devices that emit noise if at all possible as measurements may be affected by these sounds.
• Operating the **MASTER VOLUME** knob on the main unit or the **VOL +/–** buttons on the remote control unit during the measurements will cancel the measurements.
• Do not change the speaker connections or subwoofer volume after "STEP1".

STEP2: Measurement

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

Measure at least 6 positions (main listening position and at least 5 other surrounding positions). For best results it is recommend measuring **6 or more positions** (with a maximum of 8 positions).

STEP3: Calculation

When "Calculate" is selected at "STEP2", the measurements taken are analyzed automatically to determine how the speaker system interacts with the room.

The time required for this analysis depends on the number of speakers connected. The higher the number of speakers, the longer the time required for analysis.

STEP4: Check

Once the auto setup procedure is complete, a measuring result check screen appears.

Select any item whose results you want to check to review the results.

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.

STEP5: Store

The auto setup measurement results are stored in the AVR-3808.

NOTE

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

Error Messages

If the auto setup procedure could not be completed due to speaker installation, the measuring environment, etc., an error message is displayed. If this happens, check the relevant items, be sure to take the necessary measures, then perform the auto setup procedure over again.

Error messages (examples)	Cause	Measures
No microphone or speaker	• Included setup microphone is not connected.	• Connect the included setup microphone to the **SETUP MIC** jack on the main unit.
	• Not all speakers could be detected.	• Check the speaker connections.
Ambient noise is too high or Level is too low	• Too much noise in the room for accurate measurements to be made.	• Either turn off any device generating noise or move it away.
		• Try again when the surroundings are quieter.
	• Speaker or subwoofer sound is too low for accurate measurements to be made.	• Check the speaker installation and the direction in which the speakers are facing.
		• Adjust the subwoofer's volume.
None	• Displayed speaker could not be detected.	• Check the connections of the displayed speaker.
	· The front L and front R speakers were not properly detected.	
	· Only one channel of the surround (A) and surround (B) speakers was detected.	
	· Sound was output from the R channel when only one surround back speaker was connected.	
	· The surround back or the surround (B) speaker was detected, but the surround (A) speaker was not detected.	
Phase	• 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 you are sure that the wiring is correct, select "Skip".

✎ Select "Retry" to make the measurements again.

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

❷ Option

Select settings for room EQ, mic, etc.

Room EQ

Select room EQ setting method.

[Selectable items] All   Assign

Direct Mode

Select room EQ use for DIRECT or PURE DIRECT mode.

[Selectable items] ON   OFF

Mic Select

Select the microphone type if not using supplied mic.
The microphone connected to V.AUX Lch is used.

[Selectable items] Mic   V.AUX L

✎

Only a professionally certified installer should ever connect a professionally-calibrated microphone to the V.AUX L input on the front panel.

❸ Parameter Check

Check auto setup measurement results.
This is displayed after the auto setup procedure is completed.

[Items to be checked]

Spkr Config Check   Distance Check   Ch. Level Check

Crossover Check   EQ Check

✎

The auto setup results can be reset to what was originally calculated by MultEQ XT when "Restore" is selected.

GUI

Manual Setup

AII

Make detail settings for various parameters.

Speaker Setup

GUI

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

● Menu tree ●

Manual Setup

Speaker Setup

1 **Speaker Configuration**

2 **Subwoofer Mode**

3 **Distance**

4 **Channel Level**

5 **Crossover Frequency**

6 **Surround Speaker**

1 Speaker Configuration

Select speaker configuration and size.
(bass reproduction capability)

Front

Select front speaker size.

[Selectable items] Large Small

Center

Select center speaker use and size.

[Selectable items] Large Small None

Subwoofer

Select subwoofer use.

[Selectable items] Yes No

Surround A

Select surround speakers A use and size.

[Selectable items] Large Small None

Surround B

Select surround speakers B use and size.

[Selectable items] Large Small None

Surround Back

Select surround back speaker use and size.

[Selectable items] Large Small None

2spkrs 1spkr

Large : Select this for a large speaker with strong bass reproduction.

Small : Select this for a smaller speaker with weaker bass reproduction.

✎

• 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 29).
• When "Front" is set to "Small", "Subwoofer" is automatically set to "Yes".
• If "Subwoofer" is set to "No", "Front" is automatically set to "Large".
• If "Surround A" is set to "None", "Surround B" and "Surround Back" are automatically set to "None".
• When using just one surround back speaker, connect it to the left channel (SBL).

2 Subwoofer Mode

Select low range signal to be reproduced by subwoofer.

[Selectable items] LFE LFE+Main

✎

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

3 Distance

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

Meters / Feet

Select unit for distance.

Step

Select step. (smallest distance)

[Selectable items]

0.1m 0.01m : Can be selected when "Meters" is set.

1ft 0.1ft : Can be selected when "Feet" is set.

Default

Resets the settings to the default values.

Distance measurement

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

[Variable range]

0.00m ~ 18.00m : Display when "Meters" is set.

0.0ft ~ 60.0ft : Display when "Feet" is set.

NOTE

Set the distance between the listening position and the various speakers to no more than 6.00 meters (20.0 ft).

❹ Channel Level

Adjust channel levels to obtain equal volume from all speakers.

Mode

Select test tone playback method.

[Selectable items] | Auto | Manual |

Surround

Select surround speaker from which test tone is output.

[Selectable items] | A | B | A+B |

Start

Output test tone.

[Variable range] | –12dB | ~ | 0dB | ~ | +12dB |

Default

Resets the settings to the default values.

✍ Operating from the main remote control unit

Adjusting with the main 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 the **TEST** button.
  Test tones are output from the various speakers.
② Use the ◁ ▷ button to adjust so that the volume is equal for all speakers.
③ When the adjustments are completed, press the **TEST** button again.

✍

• When the GUI menu "Speaker Configuration" – "Surround Back" setting (☞page 28) is set to "1spkr", the surround back speaker display is set to "Surround Back".
• Speakers set to "None" in the "Speaker Configuration" settings are not displayed.
• "Surround" can be set when GUI menu "Speaker Configuration"– "Surround B" is set to "Large" or "Small" (☞page 28).
• When using surround speakers, be sure to adjust the volume of the different speakers.
• When "Channel Level" is adjusted, the adjusted values are set for all the surround modes. To adjust the channel level separately for the different surround modes, use the operation see page 59.

❺ Crossover Frequency

Select crossover frequency from which subwoofer handles low range signal.

[Selectable items]

| 40Hz | 60Hz | 80Hz | 90Hz | 100Hz | 110Hz |
| 120Hz | 150Hz | 200Hz | 250Hz |

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.

Advanced :

Set the crossover frequency separately for the different speakers.

✍

• The "Crossover Frequency" can be set when there are speakers that have been set to "Small" at GUI menu "Speaker Configuration" or when "Subwoofer" is set to "Yes" (☞page 28).
• If in the "Advanced" settings, "Subwoofer Mode" (☞page 28) in the GUI menu is set to "LFE", it is possible to make this setting for speakers set to "Small" at "Speaker Configuration". If set to "LFE+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.

❻ Surround Speaker

Select surround speakers to use for each surround mode.

[Selectable items] | A | B | A+B |

✍ Operating from the main remote control unit

Press the **SPKR** button.

┌─→ Surround A ──────→ Surround B ─┐
└──────── Surround A+B ◀───────────┘

✍
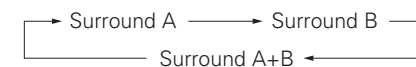
• This can be set when GUI menu "Speaker Configuration" – "Surround A" and "Surround B" are used (☞page 28).
• When using the pre-out connectors, select and use either "Surround A" or "Surround B".
• Make the surround speaker settings when the input mode is set to "EXT. IN" at GUI menu "Manual Setup" – "Audio Setup" – "EXT. IN Setup" (☞page 30).

About Speaker Type Setting when Using Both Surround speakers A and B

If "Small" is set for either surround speakers A or B, the output is the same as when "Small" is set for both A and B.

29

Getting Started

Connections

Setup

Playback

Remote Control

Multi-Zone

Information

Troubleshooting

HDMI Setup GUI

Make settings for HDMI video/audio output.

● **Menu tree** ●

Manual Setup

　　HDMI Setup
　　　　1 **i/p Scaler**
　　　　2 **Resolution**
　　　　3 **Progressive Mode**
　　　　4 **Aspect**
　　　　5 **Color Space**
　　　　6 **RGB Range**
　　　　7 **Auto Lip Sync**
　　　　8 **Audio**

1 i/p Scaler

Make settings for i/p scaler function.

[Selectable items] **A to H** **A to H & H to H** **OFF**

✎

A to H & H to H setting
• Deep color (10 bit/12 bit) signals are converted into 8-bit signals.
• The i/p scaler function does not work if xvYCC or computer's resolution signals are input.

2 Resolution

Make settings for resolution of HDMI video output signal.

[Selectable items] **Auto** **480p/576p** **1080i** **720p** **1080p**

✎

This can be set when "i/p Scaler" is set to anything other than "OFF".

NOTE

• It is not possible to convert "1080i" signals into "720p" format.
• It is not possible to convert "720p" signals into "1080i" format.

3 Progressive Mode

Select optimum progressive mode for video material.

[Selectable items] **Auto** **Video1** **Video2**

✎

This can be set when "i/p Scaler" is set to anything other than "OFF".

4 Aspect

This sets the aspect ratio when outputting 480i/576i or 480p/576p input signals from the HDMI output connector.

[Selectable items] **Full** **Normal**

✎

This can be set when "i/p Scaler" is set to anything other than "OFF".

5 Color Space

Make settings for output color space.

[Selectable items] **YCbCr** **RGB**

✎

When connected to a monitor with a DVI-D connector (HDCP compatible) using an HDMI/DVI converter cable, the signals are output in RGB format, regardless of this setting.

6 RGB Range

Make settings for RGB output range.

[Selectable items] **Normal** **Enhanced**

✎

When "YCbCr" is selected under "Color Space", "RGB Range" will have no effect.

7 Auto Lip Sync

Automatic compensation for timing shift in audio and video output.

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

8 Audio

Select HDMI audio output device.

[Selectable items] **Amp** **TV**

Audio Setup GUI

Make settings for audio playback.

● **Menu tree** ●

Manual Setup

　　Audio Setup
　　　　1 **EXT.IN Setup**
　　　　2 **2ch Direct/Stereo**
　　　　3 **Downmix Option**
　　　　4 **Auto Surround Mode**
　　　　5 **Manual EQ**

1 EXT. IN Setup

Make speaker settings for EXT. IN mode playback.

Surround Speaker

Select the surround speakers to use.

[Selectable items] **A** **B** **A+B**

Subwoofer Level

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

[Selectable items] **0dB** **+5dB** **+10dB** **+15dB**

✎

We recommend setting to "+15 dB".

Getting Started

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❷ 2ch Direct/Stereo

Make speaker settings for 2-channel mode playback.

Setting

To change the settings, select "Custom".

[Selectable items] **Basic** * **Custom**

∗: Use the same settings as in "Speaker Setup".

Front

Select front speaker size.

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

Subwoofer

Select subwoofer use.

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

Subwoofer Mode

Select low range signal to be reproduced by subwoofer.

[Selectable items] **LFE** **LFE+Main**

Crossover

Select crossover frequency from which subwoofer handles low range signal.

[Selectable items] **40Hz** **60Hz** **80Hz** **90Hz** **100Hz**
 110Hz **120Hz** **150Hz** **200Hz** **250Hz**

Distance FL

Set distance from listening position to front left speaker.

[Variable range] **0.00m ~ 18.00m**

Distance FR

Set distance from listening position to front right speaker.

[Variable range] **0.00m ~ 18.00m**

❸ Downmix Option

Set dynamic range for downmix playback of Dolby Digital sources.

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

✎

• Set this to "ON" if the sound from the front speakers seems distorted.
• When not using the center speaker or surround speakers, the playback sound is down-mixed and output from the front speakers.

❹ Auto Surround Mode

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

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

✎

• The auto surround mode function lets you store in the memory the surround mode last used for playing the four types of input signals listed below.
 ① Analog and PCM 2-channel signals
 ② Dolby Digital and DTS 2-channel signals
 ③ Dolby Digital and DTS multi-channel signals
 ④ Multi-channel signals other than Dolby Digital and DTS (PCM, DSD, etc.)
• When playing in the PURE DIRECT mode, the surround mode does not change even if the input signal is changed.

❺ Manual EQ

Adjust tonal quality for each speaker using graphic equalizer.

Adjust CH

Select speaker adjustment method.

[Selectable items] **Each** **L/R** **All**

Manual EQ

Select the speaker and frequency band and adjust the level.

[Selectable items] **63** **125** **250** **500** **1k** **2k** **4k**
 8k **16k**

[Variable range] **−20dB** **~** **0dB** **~** **+6dB**

Curve Copy

Copy the Room EQ's "Audyssey Flat" correction curve.

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

✎

"Curve Copy" is displayed after the auto setup procedure has been performed.

Default

Resets the settings to the default values.

Network Setup

Make network settings.

GUI

● Menu tree ●

```
Manual Setup
    Network Setup
        1  Network Setup
        2  Other
        3  Network Information
```
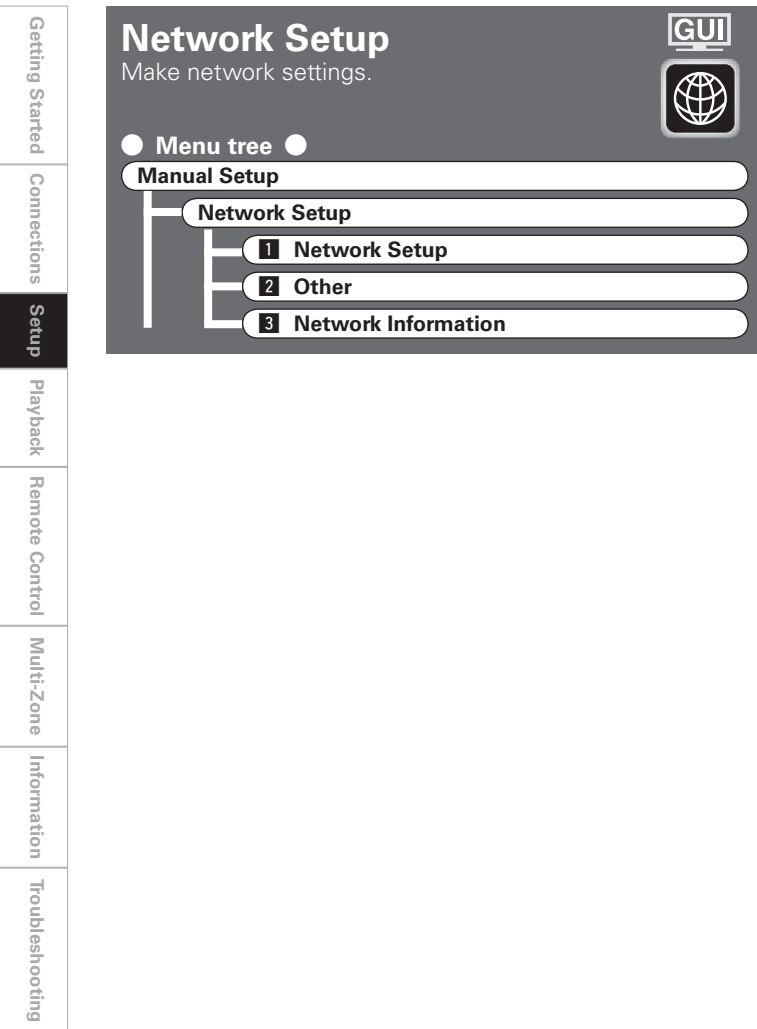
1 Network Setup

Make settings for LAN.

Turn on the AVR-3808's power.

To acquire the IP address automatically using the DHCP function

To enter the IP address manually

At the GUI menu "Manual Setup" – "Network Setup" – "Detail" setting, set "DHCP" to "OFF" and enter the IP address, subnet mask, default gateway, primary DNS and secondary DNS.

To not pass through the proxy server

To connect via proxy server

This setting is required when the network is established via proxy servers.

At the GUI menu "Manual Setup" – "Network Setup" – "Proxy" setting, set "Proxy" to "ON" and enter the address or domain name and port numbers.

This completes the setting.

✎ Recheck the connections and settings if you cannot connect to the Internet (☞page 20).

NOTE Knowledge about networks is required to make the IP address and proxy settings. For details, consult a network administrator.

2 Other

Make setting for amp power save mode and computer language environment.

Power Saving

Make setting for power saving when not connected to network.

[Selectable items] | ON | OFF |

Character

Set the character code type of the MP3 ID3-Tag played by USB.

[Selectable items] | Auto | Latin | Japanese |

If the characters are not properly displayed when set to "Auto", set to "Latin" or "Japanese".

PC Language

Select computer environment language.

[Selectable items] | ara | chi (smpl) | chi (trad) | cze | dan |
dut	eng	fin	fre	ger	gre	heb
hun	ita	jpn	kor	nor	pol	por
por (BR)	rus	spa	swe	tur

3 Network Information

Display network information.

[Items to be checked] | DHCP= ON or OFF | IP Address |
| MAC Address |

Zone Setup

Make settings for audio playback in a multi-zone system.

GUI

● **Menu tree** ●

Manual Setup

Zone Setup

1 ZONE2

2 ZONE3

1 ZONE2

Make settings for audio playback in a ZONE2 system.

2 ZONE3

Make settings for audio playback in a ZONE3 system.

Bass

Adjust low frequency range (bass).

[Variable range] | –10dB | ~ | 0dB | ~ | +10dB |

Treble

Adjust high frequency range (treble).

[Variable range] | –10dB | ~ | 0dB | ~ | +10dB |

HPF

When using speakers that cannot satisfactorily play low frequencies, distortion of the bass sound can be reduced by setting "HPF" to "ON".

[Selectable items] | ON | OFF |

Lch Level

Adjust the left channel output level.

[Variable range] | –12dB | ~ | 0dB | ~ | +12dB |

Rch Level

Adjust the right channel output level.

[Variable range] | –12dB | ~ | 0dB | ~ | +12dB |

Channel

Switch between stereo and mono output.

[Selectable items] | Stereo | Mono |

When GUI menu "Manual Setup" – "Option Setup" – "Amp Assign" (☞page 34) is set to "ZONE (MONO)", the "Channel" setting is automatically set to "Mono".

Volume Level

Adjust the main volume level.

[Selectable items] | Variable | –40dB | 0dB |

"Variable" is displayed when a power amplifier is assigned to the ZONE2 output channel at GUI menu "Manual Setup" – "Option Setup" – "Amp Assign" (☞page 34).

Volume Limit

Make a setting for maximum volume.

[Selectable items] | OFF | –20dB | –10dB | 0dB |

Power On Level

Define the volume setting that is active when the power is turned on.

[Selectable items] | Last | – – – | –70dB ~ +18dB |

Mute Level

Set the amount of attenuation when muting is on.

[Selectable items] | Full | –40dB | –20dB |

Option Setup

GUI

Make various other settings.

● Menu tree ●

Manual Setup

　Option Setup

　　1 **Amp Assign**

　　2 **Volume Control**

　　3 **Source Delete**

　　4 **GUI**

　　5 **Quick Select Name**

　　6 **Trigger Out 1**

　　7 **Trigger Out 2**

　　8 **Remote ID**

　　9 **2Way Remote**

　　10 **Dimmer**

　　11 **Setup Lock**

　　12 **Maintenance Mode**

　　13 **Firmware Update**

1 Amp Assign

Define how the amplifier for the surround back speaker channels is used.

The places where the surround back amplifier are used can be set freely according to the usage environment. This makes it possible to output sound to rooms other than the room (the main zone) where surround playback is performed (multi-zone playback) or play the sound with high quality using the front speakers (bi-amp connections).

[Selectable items]

| 7.1CH | ZONE2 | ZONE3 | ZONE(MONO) | Bi-Amp | 2CH |

For details, see "Amp Assign / Multi-Zone Connections and Operations" (☞ page 69 ~ 71).

2 Volume Control

Set the main zone volume setting.

Volume Limit

Make a setting for maximum volume.

[Selectable items] | OFF | –20dB | –10dB | 0dB |

Power On Level

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

[Selectable items] | Last | – – – | –80dB ~ +18dB |

Mute Level

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

[Selectable items] | Full | –40dB | –20dB |

3 Source Delete

Remove input sources that are not used from the display.

[Selectable items] | ON | Delete |

NOTE

• Input sources being used in the various zones cannot be deleted.
• Input sources set to "Delete" cannot be selected from GUI menu "Source Select" or using the **SOURCE SELECT** knob on the main unit or **SOURCE SELECT** button on the remote control unit.

4 GUI

Make GUI related settings.

Screensaver

Make screensaver settings.
Use the screensaver to prevent burn-in on the monitor screen.
When set to "ON", the screensaver is activated if there is no activity for about 3 minutes.

[Selectable items] | ON | OFF |

Wall Paper

Change the GUI background.

[Selectable items] | Picture | Black | Gray | Blue |

Format

Select the video output signal format to match the monitor.

[Selectable items] | PAL | NTSC |

NOTE

When a format other than the video format of the connected monitor is set, the picture will not be displayed properly. Use the procedure described below to change the video format.

☞ Operating from the main unit

① Press and hold the **STATUS** and **RETURN** buttons for at least 3 seconds.
　"Video Format" appears on the display.
② Use the ◁ ▷ button to make the setting.
③ Press the **ENTER**, **MENU** or **RETURN** button to complete the setting.

```
✳Video Format
    < PAL  >
```

Text

Text information display.

[Selectable items] ON OFF

Master Volume

Master volume display during adjustment.

[Selectable items] ON OFF

NET/USB / iPod / Tuner

This sets the time the on-screen display is displayed when an operation is performed.

[Selectable items] Always 30s 10s OFF

5 Quick Select Name

Change the Quick Select name.
Up to 16 characters can be input.

[Input characters]

A ~ Z   a ~ z   0 ~ 9

! " # % & ' ( ) * + , - . / : ; < = > ? @ [\ ] (space)

6 Trigger Out 1

Select the conditions to turn on the trigger out 1 with respect to the zone, input source, surround mode, HDMI monitor, etc.
For details about the trigger out function, see page 21.

7 Trigger Out 2

This sets the conditions to turn on the trigger out 2, in the same way as "Trigger Out 1" above.

[Selectable items] ON – – –

Setting with Respect to the Zone

• When the power of the zone turned on/off, the trigger out turns on.
• Associated with the power supply of zones set to "ON".

Setting with Respect to the Input Source

• When the input source set to on is selected, the trigger out turns on.
• Associated with respect to the input source for zones set to "ON" at "Setting with Respect to the Zone".

Setting with Respect to the Surround Mode

• When the surround mode set to on is selected, the trigger out turns on.
• Associated with respect to surround modes that are set to "ON".
• This can be set if the "MAIN ZONE" setting at "Setting with Respect to the Zone" is set to "ON".
• Associated when an input source for which "Setting with Respect to the Input Source" is set to "ON" is selected.

Setting with Respect to the Monitor

• When the HDMI monitor set to on is selected, the trigger out turns on.
• Associated with respect to HDMI monitor that are set to "ON".
• This can be set if the "MAIN ZONE" setting at "Setting with Respect to the Zone" is set to "ON".
• Associated when an input source for which "Setting with Respect to the Input Source" is set to "ON" is selected.

8 Remote ID

Set remote control ID.
Match the ID setting of the remote control unit and the receiver.

[Selectable items] 1 2 3 4

✎

• When changing the remote ID, also change the AMP, iPod, TU and NET/DTU modes of the main remote control unit at the same time (☞ page 63).
• When changing the remote ID, also change the sub remote control unit at the same time (☞ page 68).

9 2Way Remote

Make setting for 2-way remote control unit.

[Selectable items] Used Not Used

✎

When using a 2-way remote control unit (RC-7000CI and RC-7001RCI, sold separately), set this to "Used".

10 Dimmer

Adjust display brightness of the receiver.

[Selectable items] Bright Dim Dark OFF

☞ Operating from the main unit

Press the **DIMMER** button.

Bright ⟶ Dim
OFF ⟵ Dark ⟵

35
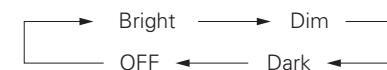
11 Setup Lock

Protect settings from inadvertent change.

[Selectable items]   ON   OFF

✎

• When "Setup Lock" is set to "ON", the settings listed below can no longer be changed. Also, "SETUP LOCKED!" is displayed if you attempt to operate related buttons.
  · GUI menu operations
  · RESTORER
  · Night Mode
  · Parameter
  · Room EQ
  · Channel Level
  · Audio Delay
• To cancel the setting, press the **MENU** button to re-display the "Setup Lock" screen, then change the setting to "OFF".

12 Maintenance Mode

This sets the function for maintenance by a DENON serviceperson or installer. (For professional use only.)

This function allows a DENON serviceperson or installer to check the AVR-3808's status and make settings via the Internet.

NOTE

Only use this function if so instructed by a DENON serviceperson or installer.

13 Firmware Update

Update the firmware of the receiver.

[Selectable items]

Start :

Execute the update process.

When updating starts, the power indicator lights red. "Updating ∗∗∗" is shown on the display during updating. Once updating is completed, "Updating complete" is displayed.

"Latest firmware" is displayed when the firmware is the latest version.

※ If the display reads as shown below, check the settings and network environment, then update again.

Display	Description
Updating failed	Updating failed.
Login failed	Failure to log into server.
Server is busy	Server is busy. Wait a while then try again.
Connection failed	Failure connecting to server.
Regist failed	Failure registering to server.

NOTE

• Connection to the network and specific settings are required to update the firmware. For details, see page 20, 32, 33.
• Do not turn off the power until updating is completed.
• Normally there is no need to use this function, aside from the cases described below.
  · The Firmware Update function is only used for updating the firmware (free or for a charge) via the Internet, for example for the purpose of adding functions to the AVR-3808 in the future.
  · Information regarding the Firmware Update function will be announced on the DENON web site each time related plans are defined.
  · A broadband connection to the Internet is required to use this function (☞ page 20).
  · Even with a broadband connection to the Internet, approximately 1 hour is required for the updating procedure to be completed. Once updating starts, normal operations on the AVR-3808 cannot be performed until updating is completed.
    Furthermore, updating the firmware may reset the backup data for the parameters, etc., set for the AVR-3808.

Language

This sets the language used on the display screens.

● **Menu tree** ●

Manual Setup
└─ Language

[Selectable items]

English	Deutsch	Français	Italiano
Español	Nederlands	Svenska	日本語

👆 Operating from the main unit

※ The GUI menu is not displayed when performing this setting.
① Press and hold the **STATUS** and **RETURN** buttons for at least 3 seconds.
   "Video Format" appears on the display.
② Use the △▽ button to set "GUI Language".
③ Use the ◁ ▷ button to make the setting.
④ Press the **ENTER**, **MENU** or **RETURN** button to complete the setting.

```
＊GUI Language
  ＜ ENGLISH ＞
```

Source Select

GUI

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

Input Source Selection

● **Menu tree** ●

Source Select

- TUNER
- PHONO
- CD
- DVD
- HDP
- TV/CBL
- SAT
- VCR
- DVR
- V.AUX
- NET/USB

Operating from the main unit or main remote control unit

【Operation on the main unit】

Turn the **SOURCE SELECT** knob.

※ If "Rec Select" or "Video Select" is selected for the input source, press the **SOURCE** button before turning the **SOURCE SELECT** knob.

【Operation on the main remote control unit】

Press the **SOURCE SELECT** button.

The desired input source can be selected directly.

SOURCE SELECT

(Main unit)   (Main remote control unit)

To operate the AVR-3808 using the main remote control unit, set the remote control unit to the AMP mode (☞ page 60 "Remote Control Unit Operations").

Settings Related to Playing Input Sources

GUI

● **Menu tree** ●

Source Select

- TUNER
  - 1 Play
  - 2 Auto Preset
  - 3 Preset Skip
  - 4 Preset Name
  - 5 Input Mode
  - 6 Rename
  - 7 Other
- PHONO
  - 5 Input Mode
  - 6 Rename
  - 7 Other
- CD, DVD, HDP, TV/CBL, SAT, VCR, DVR, V.AUX
  - 1 Play *
  - 8 Playback Mode (iPod) *
  - 9 Assign
  - 5 Input Mode
  - 6 Rename
  - 7 Other
- NET/USB
  - 1 Play
  - 10 Playback Mode
  - 5 Input Mode
  - 6 Rename
  - 7 Other

* : "Play" and "Playback Mode (iPod)" are displayed for input sources for which "iPod dock" is assigned.

---

1 Play

The playback screen is displayed.

[Input source] TUNER NET/USB (iPod)

2 Auto Preset

Use the auto preset function to program radio stations.

[Input source] TUNER

[Selectable items] Start

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

3 Preset Skip

Set the preset memories that you do not want to display when tuning.

A ~ G

Select the preset channel(s) you do not want to display.

[Input source] TUNER

[Selectable items] All 1 2 3 4 5 6 7 8

[Selectable items] ON Skip

When set "All" to "Skip", it is possible to skip entire preset memory blocks (A to G).

Getting Started | Connections | Setup | Playback | Remote Control | Multi-Zone | Information | Troubleshooting

ㄹ Preset Name

Assign name to a preset memory.
Names containing up to 8 characters can be input.

A1 ~ G8

Select the preset memory number.

[Input source] TUNER

[Characters that can be input]

A ~ Z a ~ z 0 ~ 9 ! " # % & ' ( ) * + , - . / : ; < = > ? @ [\ ] (space)

ㅌ Input Mode

Make input mode and decode mode settings for this source.
The selectable input modes depend on the input source and "Assign" setting (☞page 39).

Input Mode

Set the input mode for this source.

[Input source] TUNER PHONO (iPod)

[Selectable items] Analog EXT. IN

[Input source] NET/USB

[Selectable items] Auto EXT. IN

[Input source]

CD DVD HDP TV/CBL SAT VCR DVR V.AUX

[Selectable items]

Auto HDMI Digital Analog EXT. IN

✎

• When a digital signal is properly input, the "DIG." indicator lights on the display. If the "DIG." indicator does not light, check the digital input connector assignment and the connections.
• The surround mode cannot be set if the input mode is set to "EXT. IN".

☞ Operating from the main unit or main remote control unit

Press the **INPUT MODE** button on the main unit or the **INPUT** button on the main remote control unit.

Auto ⟶ HDMI *1 ⟶ Digital *2
EXT. IN ⟵ Analog ⟵

*1: This can be selected for input sources for which the GUI menu "Assign" setting is set to "HDMI" (☞page 39). Excluding CD.
*2: This can be selected for input sources for which the GUI menu "Assign" setting is set to "Digital" (☞page 39).

Decode Mode

Set the decode mode for this source.

[Input source] CD DVD HDP TV/CBL SAT VCR
DVR V.AUX

[Selectable items] Auto PCM DTS

✎

• This can be selected for input sources for which the GUI menu "Assign" setting is set to "HDMI" or "Digital" (☞page 39).
• Only set "PCM" and "DTS" when playing the respective signals.

6 Rename

Change the display name for this source.
Names containing up to 8 characters can be input.

[Characters that can be input]

A ~ Z a ~ z 0 ~ 9 ! " # % & ' ( ) * + , - . / : ; < = > ? @ [\ ] (space)

ㄱ Other

Make various other settings.

Video Select

Switch video input source while listening to audio signal.

[Selectable items]

DVD HDP TV/CBL SAT VCR DVR V.AUX SOURCE

☞ Operating from the main unit

Press the **VIDEO SELECT** button, then turn the **SOURCE SELECT** knob until the desired picture appears.
※ To cancel, press the main unit's **VIDEO SELECT** button, then turn the main unit's **SOURCE SELECT** knob and select "SOURCE".

NOTE

• It is not possible to select HDMI input signals.
• When playing HDMI video input signals, the analog video signal of another input source cannot be selected for the HDMI video output.
• Input sources for which "Delete" is selected at "Source Delete" cannot be selected.

Video Convert

Automatically convert video input signal to monitor output format.

[Input source] DVD HDP TV/CBL SAT VCR DVR
V.AUX

[Selectable items] ON OFF

NOTE

When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate. If this happens, please set the conversion mode to "OFF".

Source Level

Corrects the playback level of the selected input source's audio input.

[Variable range] –12dB ~ 0dB ~ +12dB

✎

For input sources for which "HDMI" and "Digital" are set at the GUI menu "Assign" setting, the analog input level and digital input level can be set separately.

8 Playback Mode (iPod)

Make settings for "iPod" playback.

Repeat

Make settings for repeat mode.

[Input source] CD DVD HDP TV/CBL SAT VCR DVR V.AUX

[Selectable items] All One OFF

Shuffle

Make settings for shuffle mode.

[Input source] CD DVD HDP TV/CBL SAT VCR DVR V.AUX

[Selectable items] Songs Albums OFF

🖉

This can be selected for input sources for which "Assign" is assigned at the "iPod dock" setting.

9 Assign

Assign input sources to input connectors.

HDMI

Select HDMI connector to assign to this source.

[Input source] DVD HDP TV/CBL SAT VCR DVR V.AUX

[Selectable items] 1 2 3 4 None

Input source	DVD	HDP	TV/CBL	SAT	VCR	DVR	V.AUX
Default setting	HDMI1	HDMI2	HDMI3	None	None	HDMI4	None

🖉

- With HDMI, the video and audio signals are transferred simultaneously. To play the video signal assigned at "HDMI" combined with the audio signal assigned at "Digital", select "Digital" at GUI menu "Source Select" – "Input Mode" (☞ page 38).
- When the AVR-3808 and monitor are connected with an HDMI cable, if the monitor is not compatible with HDMI audio signal playback, only the video signals are output to the monitor.
- The audio signals input from the analog, digital and EXT. IN connectors are not output to the monitor.

NOTE

This cannot be set for input sources for which "iPod dock" is assigned.

Digital

Select digital input connector to assign to this source.

[Input source] CD DVD HDP TV/CBL SAT VCR DVR V.AUX

[Selectable items] Coaxial1 ~ 3 Optical1 ~ 4 DENON LINK * None

Input source	CD	DVD	HDP	TV/CBL	SAT	VCR	DVR	V.AUX
Default setting	Coaxial 3	Coaxial 1	None	Coaxial 2	Optical 1	Optical 3	Optical 2	Optical 4

* : When a DENON DVD player and the DENON LINK have been connected, be sure to make a setting to "DENON LINK".

NOTE

- This cannot be set for input sources for which "iPod dock" is assigned.
- When "DENON LINK" is assigned at the GUI menu "Assign" setting, the PCM signals, network audio signals (Internet radio, music server and USB) input from the digital input connectors cannot be output from the ZONE2 and ZONE3 audio output connectors and the analog REC OUT connectors.

Component

Select component video input to assign to this source.

[Input source] DVD HDP TV/CBL SAT VCR DVR V.AUX

[Selectable items] 1 2 3 None

Input source	DVD	HDP	TV/CBL	SAT	VCR	DVR	V.AUX
Default setting	Component 1	Component 2	Component 3	None	None	None	None

NOTE

This cannot be set for input sources for which "iPod dock" is assigned.

iPod dock

Assign Control Dock for iPod to this source.

[Input source] CD DVD HDP TV/CBL SAT VCR DVR V.AUX

[Selectable items] Assign None

🖉

- With the default settings, the Control Dock for iPod can be used connected to the VCR (iPod) connector.
- Even if "iPod dock" is set to "Assign", if the set is not connected to a Control dock for iPod, the input source can be used as the normal input source.

39

⏵⓿ Playback Mode

Make settings for "NET/USB" playback.

[Input source] `NET/USB`

USB Select

Select USB port to use.

[Selectable items] `Front` `Rear`

✏
Match the port to be used and the setting.

Repeat

Make settings for repeat mode.

[Selectable items] `All` `One` `OFF`

Random

Make random mode settings.

[Selectable items] `ON` `OFF`

Direct Play

Set the folder to be played using the **DIRECT PLAY** button on the sub remote control unit.

[Selectable items] `Favorites` `All Music`

GUI

Surround Modes

Standard Playback

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

To select these surround modes pressing the **STANDARD** button on the main unit or press the **STD** button on the main remote control unit. The mode switches each time the button is pressed.

Surround Playback of 2-channel Sources

❏ When using a surround back speaker

[Selectable items]   `DOLBY PLⅡx` `DTS NEO:6`

❏ When not using a surround back speaker

[Selectable items]   `DOLBY PLⅡ` `DTS NEO:6`

| `DOLBY PLⅡx`
or `DOLBY PLⅡ` | : The signals are decoded in DOLBY PLⅡx or DOLBY PLⅡ for playback. |

→ `Cinema` : This mode is suited for movie sources.

→ `Music` : This mode is suited for music sources.

→ `Game` : This mode is suited for games.

→ `Pro Logic` : This is the Pro Logic playback mode. This can be selected when playing with a DOLBY PLⅡ decoder. When this mode is selected, "DOLBY PL" is displayed.

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

→ `Cinema` : This mode is suited for movie sources.

→ `Music` : This mode is suited for music sources.

✏
Select the "Cinema", "Music", "Game" and "Pro Logic" modes at GUI menu "Parameter" – "Audio" – "Surround Parameters" – "Mode" (☞ page 42).

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

[Selectable items]

`STANDARD` :

This mode is for decoding the input signals according to their format and playing surround sound.
The display when the STANDARD mode is selected depends on the input signal and surround back output playback mode.

Input signal		Display
Dolby Digital Source	DOLBY DIGITAL (other than 2ch) / DOLBY DIGITAL EX	DOLBY DIGITAL
		DOLBY DIGITAL EX
		DOLBY DIGITAL+PLⅡx CINEMA
		DOLBY DIGITAL+PLⅡx MUSIC
	DOLBY DIGITAL Plus	DOLBY DIGITAL +
	DOLBY TrueHD	DOLBY TrueHD
DTS Surround Source	DTS (5.1ch) / DTS-ES Discrete 6.1 / DTS-ES Matrix 6.1 / DTS 96/24	DTS SURROUND
		DTS+PLⅡx CINEMA
		DTS+PLⅡx MUSIC
		DTS+NEO:6
		DTS ES MTRX6.1 (∗1)
		DTS ES DSCRT6.1 (∗2)
		DTS 96/24 (∗3)
	DTS-HD High Resolution Audio	DTS-HD HI RES
	DTS-HD Master Audio	DTS-HD MSTR
DVD-Audio, SACD	PCM (multi ch) / DSD (multi ch)	MULTI CH IN
		MULTI IN+PLⅡx CINEMA
		MULTI IN+PLⅡx MUSIC
		MULTI CH IN 7.1

∗1 : This is displayed when the input signal is "DTS-ES Matrix 6.1" and the AVR-3808's "AFDM" setting is set to "ON".

∗2 : This is displayed when the input signal is "DTS-ES Discrete 6.1".

∗3 : This is displayed when the input signal is "DTS 96/24".

✏
For details, see page 78.

DSP Simulation Playback

The desired mode according to the program source and viewing situation can be selected from among 10 DENON original surround modes.
The surround parameters can be adjusted (☞ page 76, 77) to achieve an even more realistic, powerful sound field.

[Selectable items]

7CH STEREO	: This mode is for enjoying stereo sound from all speakers.
WIDE SCREEN	: This mode is for enjoying the atmosphere of viewing a movie on a large screen.
SUPER STADIUM	: This mode is suited for viewing sports programs.
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.
CLASSIC CONCERT	: This mode is for appreciating classical concert programs.
MONO MOVIE *	: 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.

∗ : 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.

🖉

• To select these surround modes using the buttons on the main remote control unit, press the **SIMU** button. The mode switches each time the button is pressed.
• 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.

Stereo Playback

[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.

Direct Playback

[Selectable items]

DIRECT :

In this mode the signals bypass the tone control circuitry for high quality sound.
The sound is output to the same channels as the input signal.
The display when the DIRECT mode is selected depends on the input signal.
For multi-channel sources, the display depends on the surround back output's play mode.

Input signal	Display
Analog signal / PCM (2ch) / Dolby Digital source / DTS source / Other 2-channel digital signals	DIRECT
DSD (2ch)	DSD DIRECT (∗)
PCM (multi ch)	MULTI CH DIRECT
	M DIRECT + PLⅡx CINEMA
	M DIRECT + PLⅡx MUSIC
	M DIRECT 7.1
DSD (multi ch)	DSD MULTI DIRECT (∗)

∗ : When DSD signals are converted to PCM signals as set by the audio parameters and speaker settings, "DIRECT" or "MULTI CH DIRECT" is displayed.

🖉

For details, see page 79.

Playback in the PURE DIRECT Mode

This is the mode that recreates the original sound most faithfully, providing extremely high quality sound.

Press the PURE DIRECT button on the main unit or the PURE button on the main remote control unit.

🖉

• When in the PURE DIRECT mode, the GUI screen is not displayed and the display on the main unit is turned off.
• If the HDMI input connector is selected, video outputs are output in the PURE DIRECT mode.
• The channel level and surround parameters in the PURE DIRECT mode are the same as in the DIRECT mode.

GUI

Parameter

Parameters can be called out directly by pressing the **PARA** button on the main remote control unit.

Audio GUI

Adjust various audio parameters.

● **Menu tree** ●

Parameter

Audio

1 **Surround Parameters**

2 **Tone**

3 **Room EQ**

4 **RESTORER**

5 **Night Mode**

6 **Audio Delay**

1 Surround Parameters

Adjust surround sound parameters.

The adjustable parameters differ for the different surround modes (☞ page 76, 77).

Mode

Select the mode according to the playback source.

[Selectable items]

In the PLⅡx or PLⅡ mode: **Cinema** **Music** **Game**

Pro Logic *

In the DTS NEO:6 mode: **Cinema** **Music**

∗ : Can be selected in the PLⅡ mode.

✎

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

Cinema EQ

Soften the treble range of movie soundtracks for better understanding.

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

DRC

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

[Selectable items] **Auto** **Low** **Middle** **High** **OFF**

✎

This can be set in the Dolby TrueHD mode.

D.COMP

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

[Selectable items] **OFF** **Low** **Middle** **High**

✎

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

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"

Center Image

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

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

Panorama

Assign front L/R signal also to surround channels, for wider sound.

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

Dimension

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

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

Center Width

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

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

Delay Time

Adjust delay time to control sound stage size.

[Variable range] **0 ms** ~ **30 ms** ~ **300 ms**

Effect

Switch effect signal for multi-surround speakers on and off.

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

Effect Level

Adjust effect signal level.

[Variable range]　1　~　10　~　15

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

Room Size

Determine size of acoustic environment.

[Selectable items]　Small　Medium small　Medium　Medium large　Large

NOTE

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

AFDM

Auto-select surround mode by source.
This function only works for software containing a special identification signal.
If the software being played is recorded in Dolby Digital EX or DTS-ES, it is played in 6.1-channels. If not, it is played in 5.1-channels.

[Selectable items]　ON　OFF

Example : Playing Dolby Digital software (with EX flag)

- When "AFDM" is set to "ON", the surround mode is automatically set to the DOLBY D + PLⅡx C mode.
- To play in the DOLBY DIGITAL EX mode, set "AFDM" to "OFF" and "SB CH Out" to "MTRX ON".

Some Dolby Digital EX sources do not include EX flags. If the playback mode does not switch automatically even when "AFDM" is set to "ON", set "SB CH Out" to "MTRX ON" or "PLⅡx CINEMA".

SB CH Out (for Multi-channel sources)

Select playback mode for surround back channels.

[Selectable items]

NON MTRX　MTRX ON　PLⅡx CINEMA *1　PLⅡx MUSIC *2　ES MTRX *3　ES DSCRT *4　DSCRT ON　OFF

*1: This can be selected when "Surround Back" is set to "2spkrs" at the GUI menu "Manual Setup" – "Speaker Setup" – "Speaker Configuration" setting (☞page 28).
*2: This can be selected when "Surround Back" is set to "2spkrs" or "1spkr" at the GUI menu "Manual Setup" – "Speaker Setup" –"Speaker Configuration" setting.
*3: This can be selected when playing DTS sources.
*4: This can be selected when playing DTS sources including a discrete 6.1-channel signal identification signal.

SB CH Out (for 2-channel sources)

Determine whether to use surround back speakers.

[Selectable items]　ON　OFF

Subwoofer Att.

Attenuate subwoofer level when using EXT. IN mode.

[Selectable items]　ON　OFF

Set this to "ON" if the subwoofer channel level seems too high when playing Super Audio CD.

Subwoofer

Turn subwoofer output on and off.

[Selectable items]　ON　OFF

Default

Resets the settings to the default values.

❷ Tone
Adjust the tonal quality of the sound.

Tone Defeat

Turn tone adjustments off.

[Selectable items]　ON　OFF

The tone cannot be adjusted when in the DIRECT mode.

Bass

Adjust low frequency range (bass).

[Variable range]　−6dB ~ +6dB

Treble

Adjust high frequency range (treble).

[Variable range]　−6dB ~ +6dB

"Bass" and "Treble" can be set when "Tone Defeat" is set to "OFF".

Getting Started

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3 Room EQ

Select room equalizer for current environment.

[Selectable items]

Audyssey	: Optimize frequency response of all speakers.
Audyssey Byp. L/R	: Optimize frequency response of speakers except front L and R speakers.
Audyssey Flat	: Optimize frequency response of all speakers to flat response.
Manual	: Apply frequency response set with "Manual EQ" (☞ page 31).
OFF	: Turn equalizer off.

Operating from the main unit or main remote control unit

Press the **ROOM EQ** button on the main unit or the **EQ** button on the main remote control.

OFF ⟶ Audyssey ⟶ Audyssey Byp. L/R ⟶
Manual ⟵ Audyssey Flat ⟵

When "Audyssey" is selected, "AUDYSSEY MULTEQ XT" lights.

When "Audyssey Byp. L/R" or "Audyssey Flat" is selected, or when the auto setup measuring results have changed, "AUDYSSEY MULTEQ XT" lights.

✎

• "Audyssey", "Audyssey Byp. L/R" and "Audyssey Flat" can be selected after the auto setup procedure has been performed.
• If the settings of the speakers for which "None" has been determined at "Auto Setup" are changed, "Audyssey", "Audyssey Byp. L/R" and "Audyssey Flat" cannot be selected and measurements have to be taken again to include the newly-added speakers.
• When using headphones, "Room EQ" is always set to "OFF".

4 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	
Mode1	(RESTORER 64)
Mode2	(RESTORER 96)
Mode3	(RESTORER HQ)

The default setting for "NET/USB" and "iPod" is "Mode3". All others are set to "OFF".

Operating from the main unit or main remote control unit

During playback, press the **RESTORER** button on the main unit or the **RSTR** button on the main remote control unit.

When set to something other than "OFF", "RESTORER" is displayed.

OFF ⟶ Mode 1 ⟶ Mode 2 ⟶
(RESTORER 64) (RESTORER 96)
Mode 3 ⟵
(RESTORER HQ)
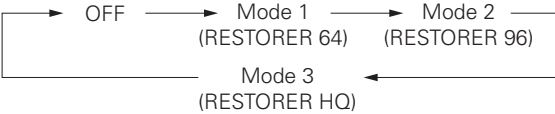
About the RESTORER function

• 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 GUI menu and can be set when the input source is set to "NET/USB" or when analog signals (including AM/FM signals) or PCM signals (fs = 44.1/48 kHz) are input.

5 Night Mode

Optimized setting for late-night listening.

[Selectable items] | OFF | Low | Middle | High |

Operating from the main remote control unit

Press the **NGT** button.
The " NIGHT " indicator lights when "Low", "Middle" or "High" is selected.

OFF ⟶ Low ⟶ Middle ⟶
High ⟵
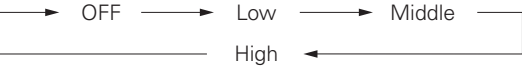
6 Audio Delay

Compensate for mismatched timing between video and audio.

Delay audio.
This sets the delay time for audio signals.

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

Operating from the main unit or main remote control unit

① Press the **AUDIO DELAY** button on the main unit or the **A. DL** button on the main remote control unit.
② Use the ◁ ▷ button to set.

✎

• This cannot be adjusted when playing in the EXT. IN, DIRECT or STEREO mode (with "Front" set to "Large", "Tone Defeat" to "ON" and "Room EQ" to "OFF".)
• The adjustment range is 0 to 100 ms when the Auto Lipsync Correction function is activated.

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Picture Adjust <small>GUI</small>

Adjust the picture quality.

● **Menu tree** ●

| Parameter |
| Picture Adjust |
| 1 Contrast |
| 2 Brightness |
| 3 Chroma Level |
| 4 Hue |

1 Contrast

Adjust picture contrast.

[Variable range] –6 ~ 0 ~ +6

2 Brightness

Adjust picture brightness.

[Variable range] 0 ~ +12

3 Chroma Level

Adjust picture chroma level (saturation).

[Variable range] –6 ~ 0 ~ +6

4 Hue

Adjust color hue.

[Variable range] –6 ~ 0 ~ +6

✎

• Adjusting the "Contrast", "Brightness", "Chroma Level" and "Hue" settings does not affect the HDMI input signal.
• "Hue" can be adjusted for composite video and S-Video signals.
• The adjustment values are stored for the individual input sources.

Information <small>GUI</small>

Status <small>GUI</small>

Shows information about current settings.

● **Menu tree** ●

| Information |
| Status |
| 1 MAIN ZONE |
| 2 ZONE2/3 |

1 MAIN ZONE

Shows information about settings for main zone.
The items displayed differ according to the input source.

[Items to be checked]

| Select Source | Name | Surround Mode | Input Mode |

| Assign | Room EQ | Video Select | Src Level | Rec Select |

| Night Mode | RESTORER | etc.

2 ZONE2/3

Shows information about settings for multi-zone.

[Items to be checked] Power   Select Source   Volume Level

Audio Input Signal <small>GUI</small>

Shows information about audio input signals.

● **Menu tree** ●

| Information |
| Audio Input Signal |

[Items to be checked]

Surround Mode	: The currently set surround mode is displayed.
Signal	: The input signal type is displayed.
fs	: The input signal's sampling frequency is displayed.
Format	: The number of channels in the input signal (front, surround, LFE) is displayed.
Offset	: The dialogue normalization correction value is displayed.
Flag	: "MATRIX" is displayed if the input signal has undergone matrix processing, "DISCRETE" if the input signal has undergone discrete processing.

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 the **STATUS** button on the main unit.

```
          Dial.Norm
          Offset  - 4dB
```

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

Getting Started

Connections

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Multi-Zone

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HDMI Information

Shows information about HDMI input/output signals and monitor.

● **Menu tree** ●

Information

┣━━ **HDMI Information**

┣━━ **1 Signal Information**

┗━━ **2 Monitor**

1 Signal Information

The HDMI input/output signal information is displayed.

[Items to be checked] Resolution Color Space Pixel Depth

2 Monitor

The HDMI monitor information is displayed.

[Items to be checked] Interface Supported resol.

Auto Surround

Shows information about auto surround mode settings.
The surround mode for which the last memory function was used for the different input signal types is displayed.

● **Menu tree** ●

Information

┗━━ **Auto Surround**

[Items to be checked]

Analog/PCM 2ch Digital 2ch Digital 5.1ch Multi ch

Quick Select

Shows information about quick select settings.

● **Menu tree** ●

Information

┣━━ **Quick Select**

┣━━ **1**

┣━━ **2**

┗━━ **3**

[Items to be checked]

Select Source Input Mode Room EQ

Auto Surround Mode setting Volume Level

✎

For instructions on storing settings at Quick Select 1 to 3, see page 59.

Preset Station

Shows information about preset stations.

● **Menu tree** ●

Information

┣━━ **Preset Station**

┣━━ **A**

┣━━ **B**

┣━━ **C**

┣━━ **D**

┣━━ **E**

┣━━ **F**

┗━━ **G**

[Input source]   TUNER   NET/USB

[Items to be checked] A1 ~ G8

✎

When the **STATUS** button on the main unit is pressed, the set's status can be checked on the display.
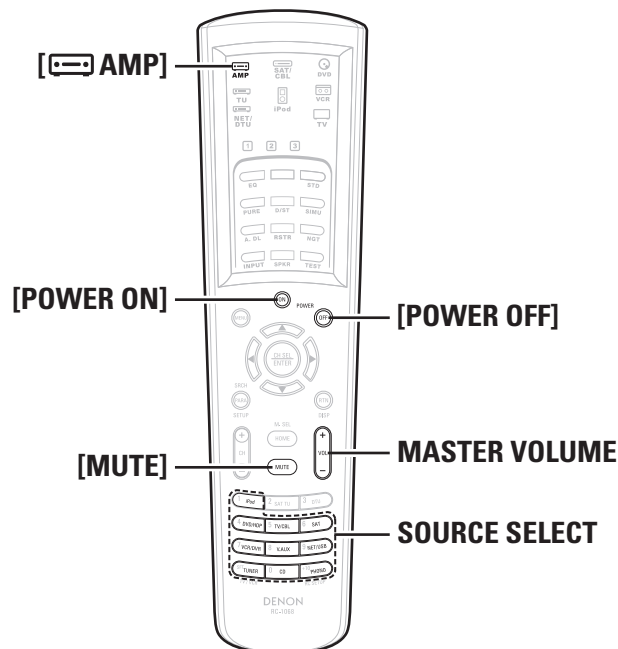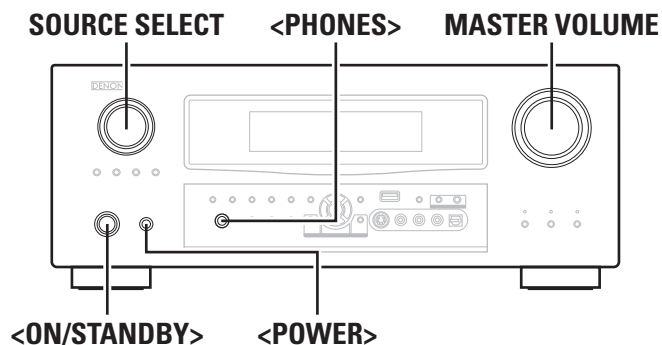
SOURCE SELECT   <PHONES>   MASTER VOLUME

<ON/STANDBY>   <POWER>

[⊡ AMP]

[POWER ON]

[MUTE]

[POWER OFF]

MASTER VOLUME

SOURCE SELECT

About the button names in these explanations

< > : Buttons on the main unit
[ ] : Buttons on the remote control unit
Button name only:
Buttons on the main unit and remote control unit

Playback

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 [POWER ON].**
The power indicator flashes green and the power turns on.

To operate the AVR-3808 using the main remote control unit, set the remote control unit to the AMP mode (☞ page 60 "Remote Control Unit Operations").

Turning the Power Off

① Press **<ON/STANDBY>** or **[POWER 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.

Operations During Playback

Adjusting the Master Volume

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

Turning Off the Sound Temporarily (Muting)

Press [MUTE].

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

Listening with Headphones

Plug the headphones into <PHONES>.
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.

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 **To operate using the main remote control unit, set the remote control unit to the AMP mode.**
(☞ page 60 "Remote Control Unit Operations")

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

GUI : **"Source Select"** (☞ page 37)

4 **Start playback.**
(☞ See the operating instructions of the respective devices.)
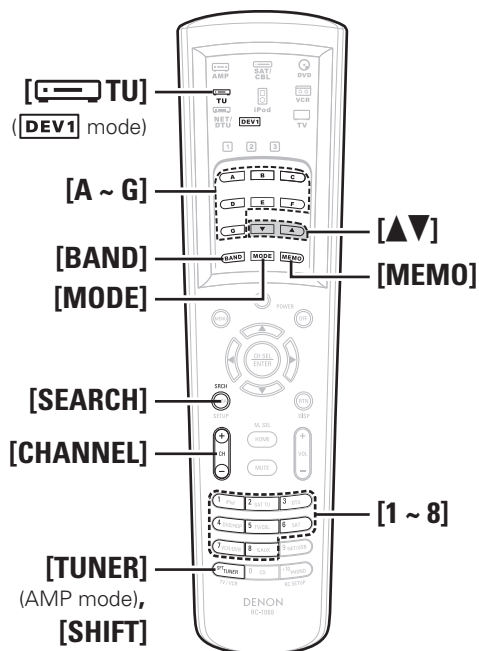
<SOURCE SELECT>

<TUNING PRESET>

[⊏□□TU]
(**DEV1** mode)

[A ~ G]

[BAND]
[MODE]

[▲▼]

[MEMO]

[SEARCH]

[CHANNEL]

[1 ~ 8]

[TUNER]
(AMP mode)**,**
[SHIFT]

About the button names in these explanations

<   > : Buttons on the main unit
[   ] : Buttons on the remote control unit
Button name only:
Buttons on the main unit and remote control unit

Listening to FM/AM Broadcasts

Basic Operation

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

GUI : **"Source Select"** (☞page 37)

2 **To operate using the main remote control unit, set the remote control unit to the TUNER (DEV1) mode.**
(☞page 60 "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 **[▲▼]** 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 **[▲▼]** to select the station you want to hear.

✐

• It is also possible to switch to "FM" or "AM" in step 1 by pressing **[TUNER]**.
• If the desired station cannot be tuned in with auto tuning, tune it in manually.
• When tuning in stations manually, press and hold **[▲▼]** to change frequencies continuously.
• The time for which the GUI menus are displayed can be set at GUI menu "Manual Setup" – "Option Setup" – "GUI" – "Tuner" (☞page 35).

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 [MEMO].**

3 **Press [A ~ G] to select the block in which the station is to be preset, then press [CHANNEL] or [1 ~ 8] to select the preset number.**

※ The memory block can also be selected by pressing **[SHIFT]**.

4 **Press [MEMO] again to complete the setting.**

✐

• To preset other stations, repeat steps 1 to 4.
• Stations can be preset automatically at GUI menu "Source Select" – "Tuner" – "Auto Preset" (☞page 37).

NOTE

Preset stations are erased by overwriting them.

Listening to Preset Stations

Operation on the Main Unit

Press <TUNING PRESET>, then turn <SOURCE SELECT> to select the preset radio station.

Operation on the Main Remote Control Unit

1 Press **[A ~ G]** to select the memory block.

2 Press **[CHANNEL]** or **[1 ~ 8]** to select the desired preset channel.

❏ 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		
EDUCATE	Education	**SOCIAL**	Social Affairs
DRAMA	Drama	**RELIGION**	Religion
CULTURE	Culture	**PHONE IN**	Phone In
SCIENCE	Science	**TRAVEL**	Travel
VARIED	Varied	**LEISURE**	Leisure
POP M	Pop Music	**JAZZ**	Jazz Music
ROCK M	Rock Music	**COUNTRY**	Country Music
EASY M	Easy Listening Music	**NATION M**	National 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 **[SEARCH]** 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]** (AMP mode) to select "TUNER".

2 To operate using the main remote control unit, set the remote control unit to the TUNER (`DEV1`) mode.
(☞ page 60 "Remote Control Unit Operations")

3 Press **[SEARCH]** to select "RDS".

4 Press **[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 2 to 3.

※ If no RDS station is found when all the frequencies have been searched, "NO RDS" is displayed.
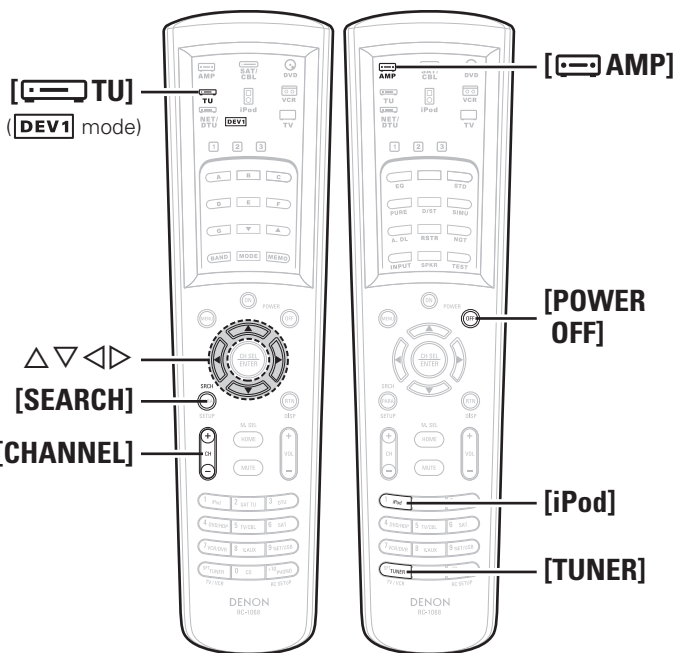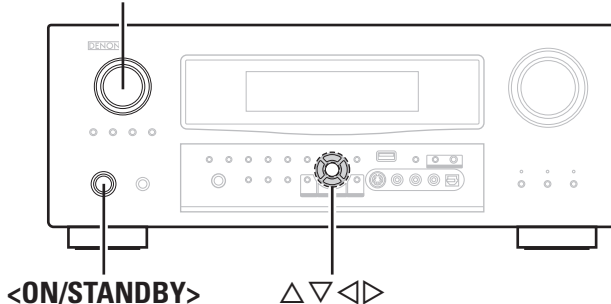
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<SOURCE SELECT>

<ON/STANDBY> △▽◁▷

[▭▭TU]
(DEV1 mode)

△▽◁▷

[SEARCH]

[CHANNEL]

[▭▭AMP]

[POWER OFF]

[iPod]

[TUNER]

About the button names in these explanations

< > : Buttons on the main unit

[ ] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

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] (AMP mode) to select "TUNER".**

2 **To operate using the main remote control unit, set the remote control unit to the TUNER (DEV1) mode.**
(☞page 60 "Remote Control Unit Operations")

3 **Press [SEARCH] to select "PTY".**

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

5 **Press [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 2 to 4.**

※ 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] (AMP mode) to select "TUNER".**

2 **To operate using the main remote control unit, set the remote control unit to the TUNER (DEV1) mode.**
(☞page 60 "Remote Control Unit Operations")

3 **Press [SEARCH] to select "TP".**

4 **Press [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 2 to 3.**

※ If no other TP station is found when all the frequencies have been searched, "NO PROGRAMME" is displayed.

RT (Radio Text)

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

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

2 **To operate using the main remote control unit, set the remote control unit to the TUNER ([DEV1]) mode.**
(☞page 60 "Remote Control Unit Operations")

3 **Press [SEARCH] to select "RT".**

※ While receiving an RDS broadcast station, the text data broadcast from the station is displayed.
※ To turn the display off, press ◁▷.
※ If no text data is being broadcast, "NO TEXT DATA" is displayed.

iPod® Playback

The music on an iPod can be played by using the Control Dock for iPod (ASD-1R, sold separately).
The operation can also be performed using the buttons on the main unit or remote control unit while watching the GUI menus.

☐ Made for ⓞ iPod 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.

Basic Operation

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.

GUI : **"Source Select"** – **"**(input source)**"** – **"Assign"**– **"iPod dock"** (☞page 39)

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

I Pod

DENON

OK to disconnect.
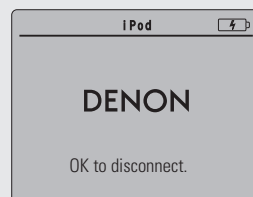
(iPod screen)

※ If the screens above are not displayed, the iPod may not be properly connected. Try connecting again.

GUI : **"Source Select"** – **"**(input source)**"** – **"Play"** (☞page 37)

3 **To operate using the main remote control unit, set the remote control unit to the iPod mode.**
(☞page 60 "Remote Control Unit Operations")

✎
• 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".
• Press <ON/STANDBY> or [POWER OFF] and set the AVR-3808's power to the standby mode before disconnecting the iPod. Also switch the input source to one to which the GUI menu "iPod dock" is not assigned before disconnecting the iPod.

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.
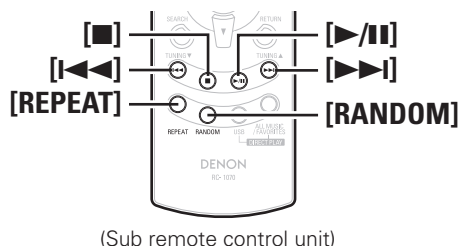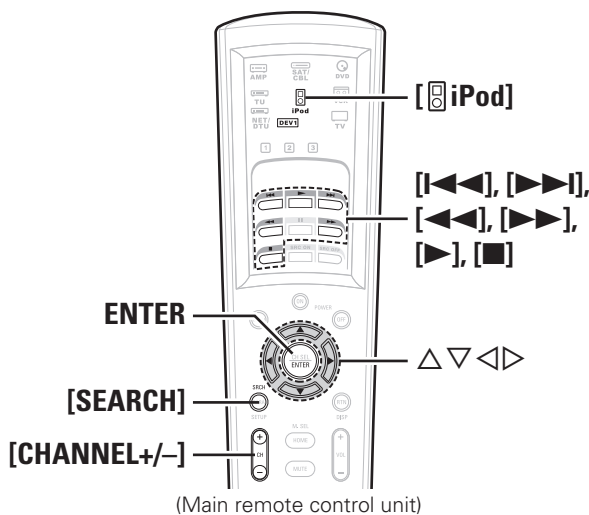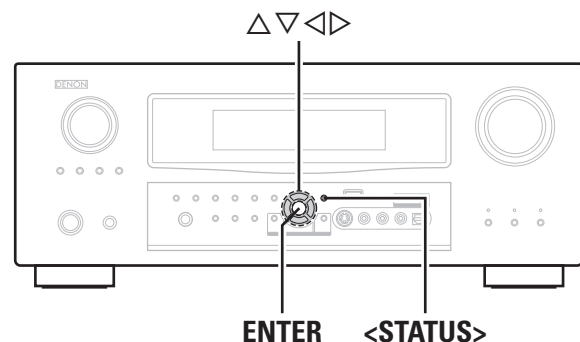
51

△▽◁▷

ENTER   <STATUS>

[⎙iPod]

[I◀◀], [▶▶I],
[◀◀], [▶▶],
[▶], [■]

ENTER

△▽◁▷

[SEARCH]

[CHANNEL+/–]

(Main remote control unit)

[■]   [▶/II]
[I◀◀]   [▶▶I]
[REPEAT]   [RANDOM]

(Sub remote control unit)

About the button names in these explanations

<   > : Buttons on the main unit
[   ] : Buttons on the remote control unit
Button name only:
    Buttons on the main unit and remote control unit

Listening to Music

1 Use △▽ to select the menu, then press **ENTER** or ▷ to select the music file to be played.

2 Press **ENTER** or ▷.
Playback starts.

Stopping playback temporarily
During playback, press **ENTER** or [▶].
Press again to resume playback.

Fast-forwarding or fast-reversing
During playback, either press and hold △ (to fast-reverse) or ▽ (to fast-forward), or press [◀◀] or [▶▶].

To cue to the beginning of a track
During playback, either press △ (to cue to the previous track) or ▽ (to cue to the next track), or press [I◀◀] or [▶▶I].

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

Playing repeatedly
Press [**CHANNEL –**] or [**REPEAT**] on the sub remote control unit.

[Selectable items] All   One   OFF

GUI : **"Source Select"** – **"**(input source)**"** –
     "Playback Mode (iPod)" – **"Repeat"** (☞ page 39)

Shuffling playback
Press [**CHANNEL +**] or [**RANDOM**] on the sub remote control unit.

[Selectable items] Albums   Songs   OFF

GUI : **"Source Select"** – **"**(input source)**"** –
     "Playback Mode (iPod)" – **"Shuffle"** (☞ page 39)

Searching up or down pages
Press [**SEARCH**], then press ◁ (down) or ▷ (up).
To cancel, press △▽ or [**SEARCH**].

To switch between the Browse and Remote modes
Either press and hold [**SEARCH**].

✎

• The title name, artist name and album name can be checked by pressing **<STATUS>** during playback.
• On the AVR-3808, folder and file names can be displayed as titles. Any characters that cannot be displayed are replaced with " . (period)".
• The time for which the GUI menus are displayed can be set at GUI menu "Manual Setup" – "Option Setup" – "GUI" – "iPod" (☞ page 35).

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.)

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

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

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.

Playing Network Audio or USB Memory Devices

This procedure can be used to play Internet radio stations or music files stored on a computer or USB memory device.

❏ About the Internet radio function

• Internet radio refers to radio broadcasts distributed over the Internet. Internet radio stations from around the world can be tuned in.

The AVR-3808 is equipped with the following Internet radio functions:

· Stations can be selected by genre and region.
· Up to 56 Internet radio stations can be preset.
· Internet radio stations in MP3 and WMA (Windows Media Audio) format can be listened to.
· Your favorite radio stations can be registered by accessing an exclusive DENON Internet radio URL from a Web browser on a computer.
  ※ The function is managed for individual users, so you must provide your MAC or e-mail address.
    Exclusive URL: http://www.radiodenon.com
  ※ The radio station database service may be suspended without notice.

• The AVR-3808's Internet radio station list is created using a radio station database service (vTuner). This database service provides a list edited and created for the AVR-3808.
vTuner services may be discontinued without notice.

❏ Music server

This function lets you play music files and playlists (m3u, wpl) stored on a computer (music server) connected to the AVR-3808 via a network.

With the AVR-3808's network audio playback function, connection to the server is possible using one of the technologies below.
· Windows Media Player Network Sharing Service
· Windows Media DRM10

Installing Windows Media Player ver. 11
① If Windows XP Service Pack 2 has not yet been installed, either download it free of charge from Microsoft or install it via a Windows update installer.
② Download the latest version of Windows Media Player ver. 11, either directly from Microsoft or using a Windows update installer.
※ When using Windows Vista, there is no need to download a new version of Windows Media Player.

❏ USB memory devices

A USB memory device can be connected to the AVR-3808's USB port to play music files stored on the USB memory device.

· Only USB memory devices conforming to mass storage class and MTP (Media Transfer Protocol) standards can be played on the AVR-3808.
· The AVR-3808 is compatible with USB memory devices in "FAT16" or "FAT32" format.

[Compatible formats]

	Internet radio	Music server※	USB※
WMA (Windows Media Audio)	○	○	○*
MP3 (MPEG-1 Audio Layer-3)	○	○	○
WAV *	–	○	○
MPEG-4 AAC	–	○*	○*
FLAC (Free Lossless Audio Codec)	–	○	○

A server or server software compatible with distribution in the corresponding formats is required to play music files via a network.

* : Only files that are not protected by copyright can be played on the AVR-3808.

Contents downloaded from pay sites on the Internet are copyright protected. Also, files encoded in WMA format when ripped from a CD, etc., on a computer may be copyright protected, depending on the computer's settings.

※ Music server and USB
· The AVR-3808 is compatible with MP3 ID3-Tag (Ver. 2) standards.
· The AVR-3808 is compatible with WMA META tags.

[Playable formats]

	Sampling frequency	Bit rate	Extension
WMA (Windows Media Audio)	32/44.1/48 kHz	48~192 kbps	.wma
MP3 (MPEG-1 Audio Layer-3)	32/44.1/48 kHz	32~320 kbps	.mp3
WAV	32/44.1/48 kHz	–	.wav
MPEG-4 AAC	32/44.1/48 kHz	16~320 kbps	.aac/.m4a/.mp4
FLAC (Free Lossless Audio Codec)	32/44.1/48 kHz	–	.flac

WAV format Quantization bit rate: 16 bits.

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\<SOURCE SELECT> $\triangle \triangledown \triangleleft \triangleright$

ENTER

[☐NET/DTU]
(DEV1 mode)

[A ~ G]

[MEMO]

ENTER

$\triangle \triangledown \triangleleft \triangleright$

[SEARCH]

[1 ~ 8]

[NET/USB]
(AMP mode)

About the button names in these explanations

< > : Buttons on the main unit
[ ] : Buttons on the remote control unit

Button name only:
Buttons on the main unit and remote control unit

Basic Operation

1 Make the necessary preparations.

① Check the network environment, then turn on the AVR-3808's power. (☞page 20 "Network Audio")
② If settings are required, make the network settings.
(☞page 32, 33 "Network Setup")
③ Prepare the computer. (☞Computer's operating instructions)
Install "Windows Media Player ver. 11".

2 Either turn \<SOURCE SELECT> or press [NET/USB] (AMP mode) to select "NET/USB".

GUI : **"Source Select"** –**"NET/USB"** –**"Play"**
(☞page 37)

3 To operate using the main remote control unit, set the remote control unit to the NET/DTU (DEV1) mode.
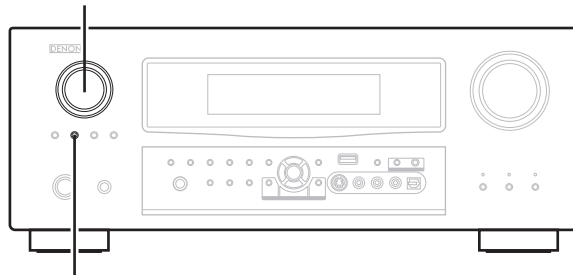(☞page 60 "Remote Control Unit Operations")

4 Use $\triangle \triangledown$ to select the menu, then press ENTER or $\triangleright$ to select the file you want to play.

5 Press ENTER or $\triangleright$.
Playback starts.

Stopping playback temporarily
During playback, press **ENTER**.
Press again to resume playback.

To stop
During the play or pause mode, press and hold **ENTER**.

Searching up or down pages
Press **[SEARCH]**, then press $\triangleleft$ (down) or $\triangleright$ (up).
To cancel, press $\triangle \triangledown$ or **[SEARCH]**.

Searching by first letter (Character search)
This operation is convenient for choosing items from the menu screens for Internet radio stations or files stored on the computer.
① When the menu screen is displayed, press **[SEARCH]** twice.
② Use $\triangleleft \triangleright$ to select the first letter you want to search for.
If there are multiple items starting with the selected letter, they are displayed in alphabetical order.
If it is not possible to search the list, "Unsorted list..." is displayed.

🖉

• 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".
• The time for which the GUI menus are displayed can be set at GUI menu "Manual Setup" – "Option Setup" – "GUI" – "NET/USB" (☞page 35).
• The display can be switched between the artist name, track name, album name.

Listening to Internet Radio

1 Use $\triangle \triangledown$ to select "Internet Radio", then press ENTER or $\triangleright$.

2 Use $\triangle \triangledown$ to select the item you want to play, then press ENTER or $\triangleright$.
The station list is displayed.

3 Use $\triangle \triangledown$ to select the station, then press ENTER or $\triangleright$.
Playback starts once buffering reaches "100%".

🖉

• There are many Internet radio stations on the Internet, and the quality of the programs they broadcast as well as the bit rate of the tracks varies widely.
Generally, the higher the bit rate, the higher the sound quality, but depending on the communication lines and server traffic, the music or audio signals being streamed may be interrupted.
Inversely, lower bit rates mean a lower sound quality but less tendency for the sound to be interrupted.
• "Server Full" or "Connection Down" is displayed if the station is busy or not broadcasting.
• On the AVR-3808, folder and file names can be displayed as titles. Any characters that cannot be displayed are replaced with " . (period)".

Recently Played Internet Radio Stations

Recently played internet radio stations can be selected from "Recently Played" in top menu.

1 Use △▽ to select "Recently Played", then press **ENTER** or ▷.

2 Use △▽ to select the item you want to play, then press **ENTER** or ▷.

NOTE

Up to 20 stations stored in "Recently Played".

Presetting Internet Radio Stations

Preset Internet radio stations can be selected directly.

1 While the Internet radio station you want to preset is playing, press **[MEMO]**.

2 Use △▽ to select "Preset", then press **ENTER**.

3 Press **[A ~ G]**, then press **[1 ~ 8]** to select the desired preset number.
The Internet radio station is now preset.

NOTE

If registered at a number that has already been preset, the previously registered setting is cleared.

Listening to Preset Internet Radio Stations

With the input source set to "NET/USB", press **[A ~ G]**, then press **[1 ~ 8]**.
The AVR-3808 automatically connects to the Internet and playback begins.

Registering Internet Radio Stations as Your Favorites

Favorites are listed at the top of the menu screen, so when a station is registered as a favorite it can be tuned in easily.

1 Press **[MEMO]** while the Internet radio station you want to register is playing.

2 Use △▽ to select "Favorites", then press **ENTER**.

3 Press ◁ to select "Yes".
The Internet radio station is registered.
If you do not want to register it, press ▷.

Listening to Internet Radio Stations Registered in Your Favorites

1 Use △▽ to select "Favorites", then press **ENTER** or ▷.

2 Use △▽ to select the Internet radio station, then press **ENTER** or ▷.
The AVR-3808 automatically connects to the Internet and playback begins.

Clearing Internet Radio Stations from Your Favorites

1 Use △▽ to select "Favorites", then press **ENTER** or ▷.

2 Use △▽ to select the Internet radio station you want to clear, then press **[MEMO]**.

3 Press ◁ to select "Delete".
The selected Internet radio station is cleared.
To cancel the operation without clearing the station, press ▷.

Playing Files Stored on a Computer

Use this procedure to play music files or playlists.

1 Use △▽ to select the host name of the computer on which the music file you want to play is located, then press **ENTER** or ▷.

2 Use △▽ to select the search item or folder, then press **ENTER** or ▷.

3 Use △▽ to select the file, then press **ENTER** or ▷.
Playback starts once buffering reaches "100%".

Selecting tracks

During playback, either press △ (previous track) or ▽ (next track).

🖉

• Connections to the required system and specific settings must be made in order to play music files (☞ page 20).
• Before starting, you must launch the computer's server software and set the files as server contents. For details, see the operating instructions of your server software.

Playing files that have been Preset or Registered in Your Favorites

Files can be preset, registered in your favorites and played using the same operations as for Internet radio stations.

NOTE

• Presettings are erased by overwriting them.
• When the operation described below is performed, the music server's database is updated and it may no longer be possible to play preset or favorite music files.
• When you quit the music server and then restart it.
• When music files are deleted or added on the music server.
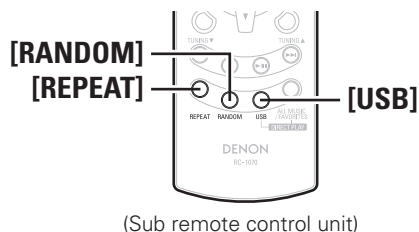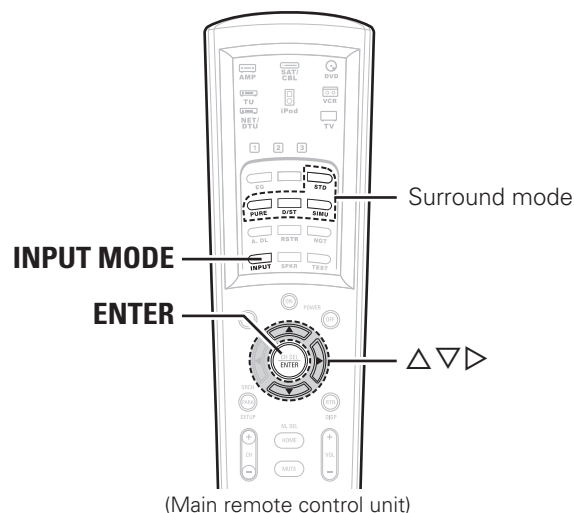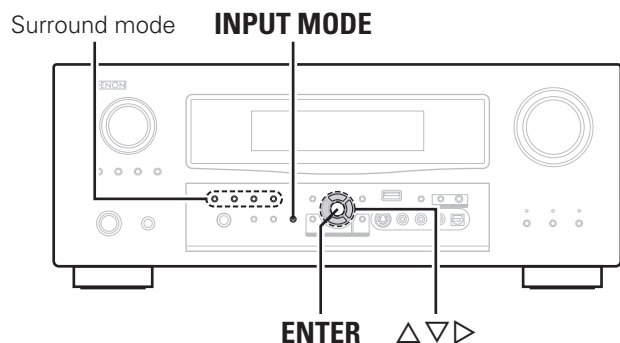
Surround mode   **INPUT MODE**

ENTER   △▽▷

Surround mode

INPUT MODE

ENTER

△▽▷

(Main remote control unit)

[RANDOM]
[REPEAT]   **[USB]**

(Sub remote control unit)

About the button names in these explanations

< > : Buttons on the main unit
[ ] : Buttons on the remote control unit
Button name only:
Buttons on the main unit and remote control unit

Playing Files Stored on USB Memory Devices

Only USB memory devices conforming to mass storage class and MTP (Media Transfer Protocol) standards can be played on the AVR-3808.

Basic Operation

1 **Make the necessary preparations.**
• Set the USB port to be used.

GUI : **"Source Select"** – **"NET/USB"** –
"Playback Mode" – **"USB Select"** (☞ page 40)

• Connect the USB memory device to the set USB port.

2 **Use △▽ to select "USB", then press ENTER or ▷.**

3 **Use △▽ to select the search item or folder, then press ENTER or ▷.**

4 **Use △▽ to select the file, then press ENTER or ▷.**
Playback starts once buffering reaches "100%".

🖉

By default, the front panel's USB port will be used.

Playing repeatedly
Press **[REPEAT]** on the sub remote control unit.

[Selectable items]   All   One   OFF

GUI : **"Source Select"** – **"NET/USB"** –
"Playback Mode" – **"Repeat"** (☞ page 40)

Playing in random order
Press **[RANDOM]** on the sub remote control unit.

[Selectable items]   ON   OFF

GUI : **"Source Select"** – **"NET/USB"** –
"Playback Mode" – **"Random"** (☞ page 40)

Selecting tracks
During playback, either press △ (previous track) or ▽ (next track).

🖉

• If the USB memory device is divided into multiple partitions, only the top partition can be selected.
• The AVR-3808 is compatible with MP3 files conforming to "MPEG-1 Audio Layer-3" standards.
• If **[USB]** on the sub remote control unit is pressed when the USB memory device or folder is selected, all the tracks on the USB memory device or in the folder are played.

NOTE

• The AVR-3808 is equipped with two USB ports, one each on the front and rear panels. It is not possible to use the set with USB memory devices connected to both the ports at the same time. Select the USB port you want to use at the "Source Select" – "NET/USB" – "Playback Mode" – "USB Select" menu.
• DENON will accept no responsibility whatsoever for any loss or damage to data on USB memory devices when using the USB memory device connected to the AVR-3808.
• USB memory devices will not work via a USB hub.
• DENON does not guarantee that all USB memory devices will operate or receive power. When using a USB connection type portable hard disk of the type for which power can be supplied by connecting an AC adapter, we recommend using the AC adapter.
• It is not possible to connect and use a computer via the AVR-3808's USB port using a USB cable.
• The AVR-3808 is not compatible with the iPod shuffle.

Operating the AVR-3808 Using a Browser (Web control)

This function lets you operate the AVR-3808 using Internet Explorer.

1 **Check the AVR-3808's IP address.**

> **GUI** : **"Manual Setup"** – **"Network Setup"** – **"Network Information"** (☞ page 33)

2 **Input the AVR-3808's IP address in Internet Explorer.**
The AVR-3808 can be operated in the same way as with regular Internet browsing.

🖉

To use the web control function, set the GUI menu "Manual Setup"–"Network Setup" – "Other" – "Power Saving" setting to "OFF" (☞ page 33).

Other Operations and Functions

Other Operations

Playing Super Audio CD

1 **Assign "DENON LINK" or "HDMI" at the "Digital" or "HDMI" setting (☞ page 39).**

2 **Either turn <SOURCE SELECT> or press [SOURCE SELECT] to select the input source assigned in step 1.**
The " D.LINK " or " HDMI " indicator lights on the display.

3 **Use INPUT MODE to select the input mode (☞ page 38).**
Select the input mode according to the program source to be played.

4 **Select the surround mode (☞ page 40, 41).**
We recommend playing in the DIRECT mode.

5 **Start playing the Super Audio CD.**
The " DSD " indicator lights on the display.
For operating instructions, refer to the respective equipment's operating instructions.

🖉

• When playing DSD signals in the DIRECT or PURE DIRECT mode, the DSD signals are converted as such into analog signals. When playing in other surround modes, the DSD signals are first converted into PCM format, then into analog signals.
• "DSD DIRECT" is shown on the display when playing DSD 2-channel signals in the DIRECT mode. "DSD MULTI DIRECT" is shown on the display when playing DSD multi–channel signals in the DIRECT mode.
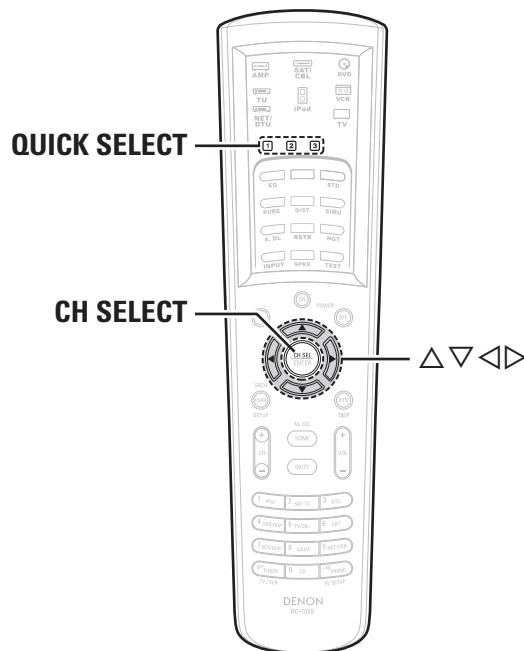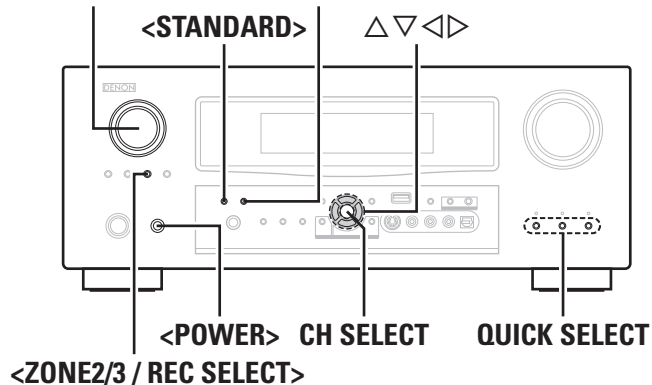
<SOURCE SELECT> **<DSP SIMULATION>**

<STANDARD> △ ▽ ◁ ▷

<POWER> CH SELECT QUICK SELECT

<ZONE2/3 / REC SELECT>

QUICK SELECT

CH SELECT

△ ▽ ◁ ▷

About the button names in these explanations

< > : Buttons on the main unit

[ ] : Buttons on the remote control unit

Button name only:

Buttons on the main unit and remote control unit

Recording on an External Device (REC OUT mode)

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

1 **Press <ZONE2/3 / REC SELECT>.**
"ZONE2 SOURCE" is shown on the display.

ZONE2 SOURCE ◄──► ZONE2 TUNER ◄──► .... ◄──► ZONE2 NET/USB

RECOUT NET/USB ◄──► .... ◄──► RECOUT TUNER ◄──► RECOUT SOURCE
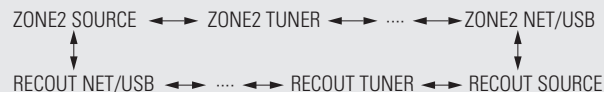
2 **Turn <SOURCE SELECT> until "RECOUT SOURCE" is displayed.**
The " REC " indicator lights.

3 **Turn <SOURCE SELECT> to choose the input source to be recorded.**

4 **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 48).

5 **Start recording.**
For operating instructions, refer to the respective equipment's operating instructions.

✐

• To cancel, press **<ZONE2/3 / REC SELECT>**, then turn **<SOURCE SELECT>** until "ZONE2 SOURCE" is displayed.
• Make a test recording before starting the actual recording.
• Signals are only output to the analog REC OUT connectors when the digital signals input to the digital input connectors (OPTICAL/COAXIAL) are PCM (2-channel) signals.
• Digital audio signals input to the DENON LINK or HDMI connectors are not output to the REC OUT connectors, so connect using the OPTICAL or COAXIAL connectors.
• Sources selected with the REC OUT mode are output from ZONE2 as well.
• In the REC OUT mode, the remote control unit's ZONE2 mode buttons cannot be operated.
• The network audio signals (Internet radio, music server, USB) are not output if they are copyright-protected.

NOTE

• Recordings you make are for your personal enjoyment and should not be used for other purposes without permission of the copyright holder.
• When "DENON LINK" is assigned at the GUI menu "Assign" setting, the PCM signals, network audio signals (Internet radio, music server and USB), input from the digital input connectors cannot be output from the analog REC OUT connectors.
• Input sources for which "Delete" is selected at "Source Delete" cannot be selected.

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 **CH SELECT**.

2 Use △▽ or **CH SELECT** 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.

※ "OFF" can be set by pressing ◁ when the subwoofer's volume is set to –12 dB.

Fader Function

This function lets you adjust (fade) the sound from all the front or rear speakers at once.

1 Press **CH SELECT**.

2 Press △▽ or **CH SELECT** to select "Fader".

3 Use ◁ ▷ to adjust the volume of the speakers.
(◁: front, ▷: rear)

• The fader function does not affect the subwoofer.
• The fader can be adjusted until the volume of the speaker adjusted to the lowest value is –12 dB.

Quick Select Function

With this function, the currently playing input source, input mode, surround mode, room EQ settings and volume can be stored in the memory.

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

2 Press and hold the desired **QUICK SELECT**.
Keep pressing the button until the quick select indicator lights.

[Quick Select Defaults]

	Input Source	Volume
Quick Select 1	DVD	–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.
• The Quick Select name can be changed (☞ page 35).

NOTE

Input sources stored with the quick select function cannot be selected if they have been deleted at GUI menu "Manual Setup" – "Option Setup" – "Source Delete" (☞ page 34). In this case, store them again.

Personal Memory Plus Function

This function sets the settings (input mode, surround mode, 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, room EQ 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 <STANDARD> and <DSP SIMULATION>.

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

Main Remote Control Unit

• On the main remote control unit, the display switches according to the device being operated and the mode.

• In modes other than iPod, the mode switches between "DEV1" and "DEV2" each time the [MODE SELECTOR] is pressed.

• In the AMP, TUNER, NET/DTU and iPod modes, when the remote ID is set, the AVR-3808 can be used independently even in an environment containing multiple DENON amplifiers.

Signal transmission indicator

[◄►◄ AMP]

[MODE SELECTOR]

[HOME]

[NUMBER]

[RC SETUP]

DENON
RC-1068

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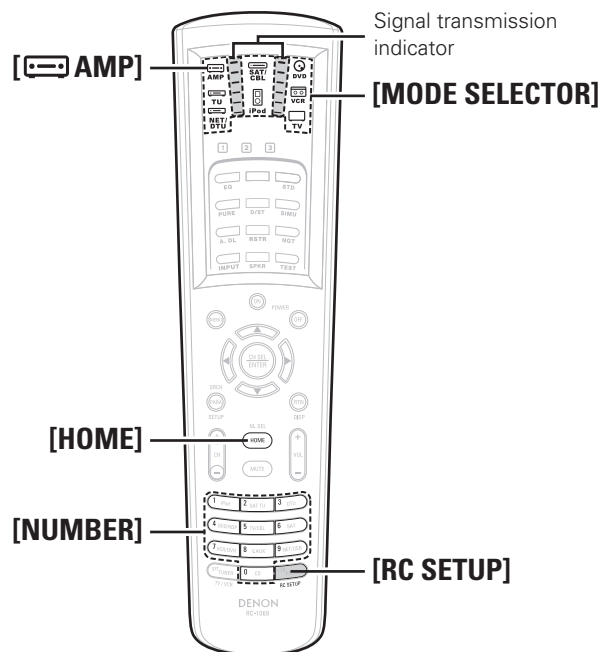
Depending on the model and year of manufacture of your equipment, some buttons may not operate.

NOTE

The device mode (" DEV1 " or " DEV2 ") cannot be changed while the setting is being made.

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Operating DENON Audio Components

1 **Press [MODE SELECTOR] for the component to be operated.**

The indicator for the component to be operated flashes.

AMP : AMP / ZONE2 / ZONE3 / ZONE4 / SYSTEM CALL

TU : TUNER (FM/AM)

NET/ DTU : NETWORK/USB / DIGITAL TUNER

SAT/ CBL : Satellite Receiver / Cable TV

iPod : iPod

DVD : DVD player (Recorder) / CD player (Recorder)

VCR : VCR / TAPE

TV : TV

※ The TUNER (DEV2) and NET/DTU (DEV2) mode is not used on the AVR-3808, so use the learn function to store the signals (☞ page 63).

※ The mode switches each time [AMP] is pressed.

【AMP mode】 　　　【ZONE2 mode】 　　　【ZONE3 mode】

【SYSTEM CALL mode】 　　　【ZONE4 mode】
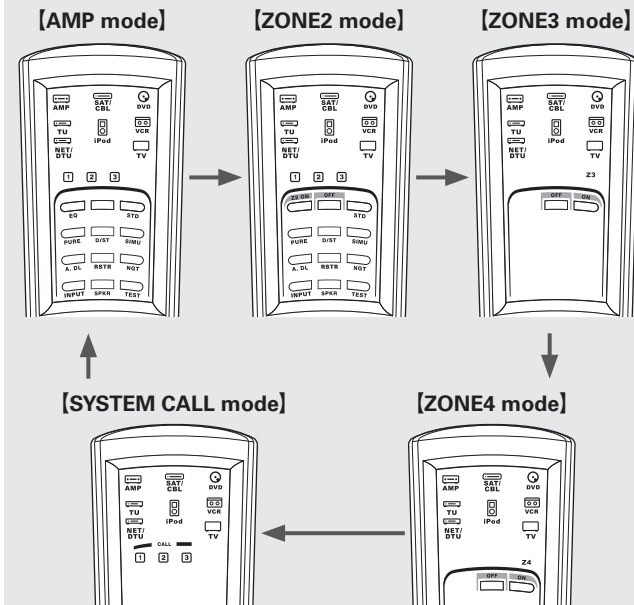
2 **Operate the component.**

※ For details, refer to the component's operating instructions.

✎

[HOME] is used to return to the AMP mode (AMP, ZONE2, ZONE3, ZONE4 or SYSTEM CALL) when in any mode other than AMP.

Presetting

The included main remote control unit can be preset to operate devices of various brands.

1 **Press [MODE SELECTOR] for the device you want to preset.**

2 **Press and hold in [RC SETUP] for at least 3 seconds.**
The signal transmission indicator flashes twice.

3 **Press [NUMBER] and input the 5-digit number of the brand of the component to be preset. The numbers are shown in the Preset Code Table (☞ End of this manual).**

When the code is registered, the signal transmission indicator flashes twice.

When the preset code is transmitted, the mode indicator for the component to which that code belongs flashes.

※ The input mode is canceled if no button is operated for 10 seconds.

✎

Some brands have more than one preset code. If the component does not operate, try inputting a different code.

Operating Preset Components

1 **Press [MODE SELECTOR] for the component to be operated.**
The mode indicator of the device to be operated flashes.

2 **Operate the component.**

※ For details, refer to the component's operating instructions.

Functions of Buttons by Component

EL Display

[MODE SELECTOR]

[▶], [I◀◀ ▶▶I], [◀◀ ▶▶], [II], [■], [SOURCE ON], [SOURCE OFF]

[MENU]

[SETUP/ SEARCH]

[CH + / SHUFFLE], [CH – / REPEAT]

[ENTER]

[△ ▽ ◁ ▷]

[RETURN]

[0 ~ 9, +10]

Buttons

	EL Display						
MODE SELECTOR	DVD				VCR		iPod
Device Mode	DEV1		DEV2		DEV1	DEV2	DEV1
Device operated	DVD (Default setting)	DVD Recorder	CD (Default setting)	CD Recorder	VCR	TAPE	iPod
▶	Playback	Playback	Playback	Playback	Playback	Playback	Playback/Pause
I◀◀ ▶▶I	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)	Auto search (cue)
◀◀ ▶▶	Manual search (fast-reverse/ fast-forward)	Manual search (fast-reverse/ fast-forward)	Manual search (fast-reverse/ fast-forward)	Manual search (fast-reverse/ fast-forward)	Manual search (fast-reverse/ fast-forward)	Manual search (fast-reverse/ fast-forward)	Manual search (fast-reverse/ fast-forward)
II	Pause	Pause	Pause	Pause	Pause	Pause	–
■	Stop	Stop	Stop	Stop	Stop	Stop	Stop
SOURCE ON	Power on	Power on	–	–	Power on	–	–
SOURCE OFF	Power off	Power off	–	–	Power off	–	–
Buttons							
MENU	Menu/guide	Menu/guide	–	–	Menu/guide	–	Menu
△ ▽ ◁ ▷	Cursor	Cursor	–	–	Cursor	–	Cursor
ENTER	Enter setting	Enter setting	–	–	Enter setting	–	Enter
SETUP/SEARCH	Set up	Set up	–	–	Set up	–	Page forward screen / Browse/ Remote mode switching (Press and hold)
RETURN	Return	Return	–	–	Cancel	–	Return
CH + / SHUFFLE	–	–	–	–	Switch channels	–	1-track/album shuffle play
CH - / REPEAT	–	–	–	–	Switch channels	–	1-track/All-track repeat play
0 ~ 9, +10	Select track	Select track	Select track	Select track	–	–	–
Special Remarks	①, ②		①		①	①	–

【Special Remarks】
① Only one component can be preset for each mode. If a new code is preset, the previous code is automatically cleared.
② The names of the functions for the DVD remote control buttons differ from brand to brand. Check beforehand.

NOTE

• Preset a DVD player or DVD recorder for the "DVD" – " DEV1 " mode. Preset a CD player or CD recorder for the "DVD" – " DEV2 " mode.
• Preset a VCR for the "VCR" – " DEV1 " mode. Preset a tape deck for the "VCR" – " DEV2 " mode.

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Sidebar tabs: Getting Started | Connections | Setup | Playback | **Remote Control** | Multi-Zone | Information | Troubleshooting

EL Display

[MODE SELECTOR]

[▶], [I◀◀ ▶▶I], [◀◀ ▶▶], [II], [■], [SOURCE ON], [SOURCE OFF]

[MENU] — **[ENTER]**

[△▽◁▷]

[SETUP] — **[DISPLAY]**

[CH +/–]

[0 ~ 9, +10]

[TV/VCR]

Buttons

EL Display

[MODE SELECTOR]

[A ~ G], [▲ ▼], [BAND], [MODE], [MEMO]

[ENTER]

[△▽◁▷]

[SEARCH]

[CH +/–]

[1 ~ 8]

[SHIFT]

Buttons
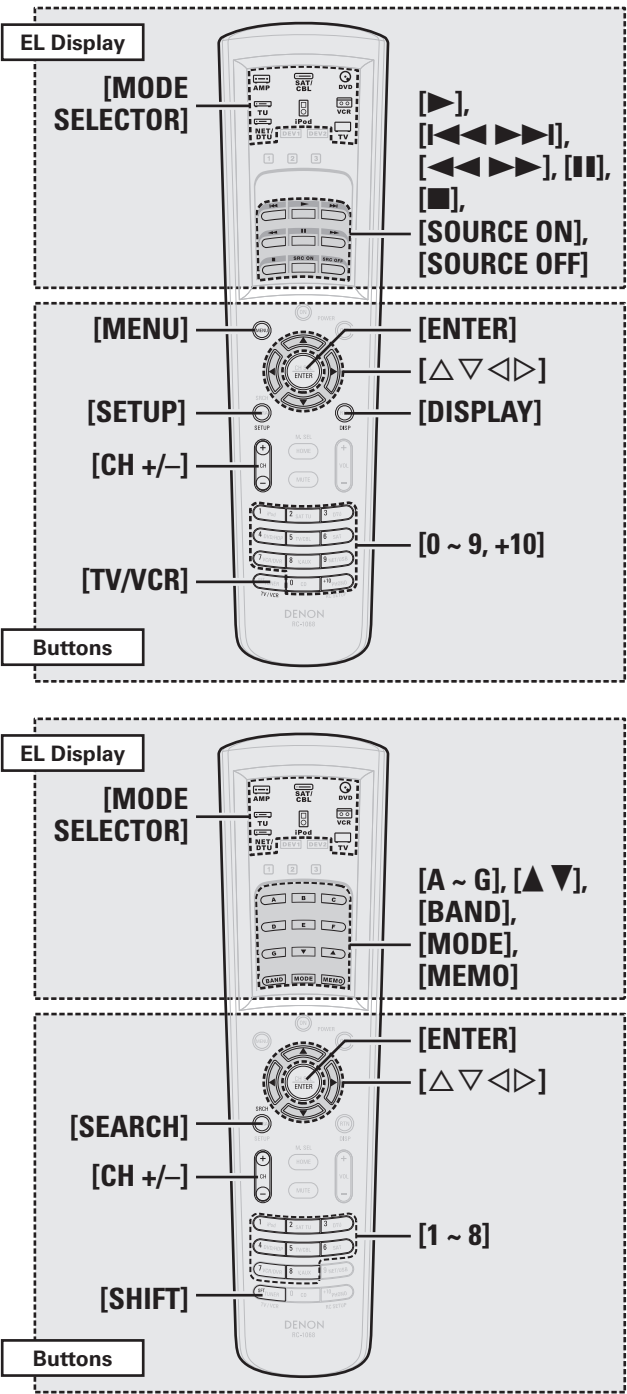
EL Display				
MODE SELECTOR	TV		Satellite Receiver / Cable TV	
Device Mode	DEV1	DEV2	DEV1	DEV2
Device operated	TV (HITACHI)	TV (SONY)	SAT	SAT
▶	Punch through	Punch through	Punch through	Punch through
I◀◀ ▶▶I				
◀◀ ▶▶				
II				
■				
SOURCE ON	Power on	Power on	Power on	Power on
SOURCE OFF	Power off	Power off	Power off	Power off
Buttons				
MENU	Menu/guide	Menu/guide	Menu/guide	Menu/guide
△ ▽ ◁ ▷	Cursor	Cursor	Cursor	Cursor
ENTER	Enter setting	Enter setting	Enter setting	Enter setting
SETUP	Set up	Set up	Set up	Set up
DISPLAY	Display	Display	Display	Display
CH + / –	Switch channels	Switch channels	Switch channels	Switch channels
0 ~ 9, +10	Channel selection	Channel selection	Channel selection	Channel selection
TV/VCR	Switch inputs	Switch inputs	–	–
Special Remarks	①, ③	①, ③	①, ③	①, ③

【Special Remarks】

① Only one component can be preset for each mode. If a new code is preset, the previous code is automatically cleared.

③ The CD, VCR or DVD buttons (one only set) can be assigned to the TV, satellite receiver and cable TV mode (☞page 64 "Punch Through Function").

EL Display		
MODE SELECTOR	TU	NET / DTU
Device Mode	DEV1	DEV1
Device operated	Analog tuner	NET / USB
A ~ G	Preset memory block selection	Preset memory block selection
▲ ▼	Tuning + / –	–
BAND	AM/FM switching	–
MODE	Switch search modes	–
MEMO	Preset memory registration	Favorites / Preset memory registration
Buttons		
△ ▽ ◁ ▷	–	Cursor
ENTER	–	Enter, Playback/Pause
SEARCH	RDS search	Search
CH + / –	Preset channel selection	Preset channel selection
1 ~ 8	Preset channel selection	Preset channel selection
SHIFT	Switch memory block	Switch memory block

[⊡AMP]
[⊡TU]
[⊡NET/DTU]

Signal transmission indicator

[MODE SELECTOR]
[🔲iPod]

[NUMBER]

[RC SETUP]

MODE SELECTOR	AMP (MAIN)	TUNER	iPod	NET/DTU
		DEV1 (Analog TUNER)		**DEV1** (Net Audio / USB)
Remote ID				
1 (Default)	81001	52863	72815	62865
2	82001	52795	72816	62837
3	83001	52800	72817	62838
4	84001	52805	72818	62839

NOTE

• When changing a setting, be sure to set the same remote ID as the AVR-3808's (☞ page 35).
• When changing the AMP mode's remote ID, also change the "TUNER", "iPod" and "NET/DTU" remote ID at the same time.
• Set the remote ID of an analog tuner for "TUNER" – " **DEV1** ".

Learning Function

If your AV devices are of a brand other than DENON or if they cannot be operated with the preset memory function, their remote control signals can be transfered to stored in the AVR-3808's main remote control unit.

1 Press **[MODE SELECTOR]** for the device you want to set.

2 Press and hold in **[RC SETUP]** for at least 3 seconds.
The signal transmission indicator flashes twice.

3 Press **[9]**, **[7]** and **[5]**, in that order.
The signal transmission indicator flashes twice and the learning mode is set.

4 Press the button to be set.
The main remote control unit's display turns off.

※ If a button that cannot be learned is pressed, the signal transmission indicator lights but the signal is not learned.

Setting the Remote ID

When using multiple DENON AV receivers in the same room, make this setting so that only the desired AV receiver operates.

1 Press **[AMP]** to set the main remote control unit to the AMP mode.

2 Press and hold in **[RC SETUP]** for at least 3 seconds.
The signal transmission indicator flashes twice.

3 Refer to the table at the right, and use **[NUMBER]** to input the 5-digit number corresponding to the remote ID to be changed.
The signal transmission indicator flashes twice.

4 Press **[TU]**, **[iPod]** or **[NET/DTU]** to select the mode to be set.

5 Repeat steps 2 to 4 to set the remote IDs for all modes.

5 Point the main remote control units directly at each other and press and hold the button on the other device's remote control unit that you want to learn.
Once learning is completed normally, the display lights and the signal transmission indicator flashes twice.

Other device's remote control unit

AVR-3808's main remote control unit (RC-1068)
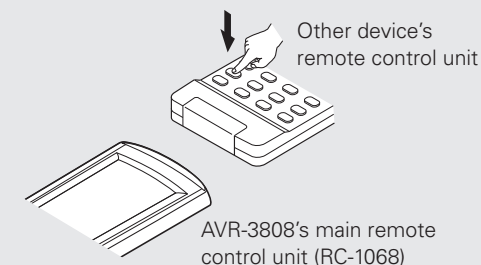
※ If you want to learn other buttons, repeat steps 4 and 5.
※ The mode can be switched by pressing **[MODE SELECTOR]**.
※ The signal transmission indicator lights once for a long time if learning was not possible

6 Press and hold in **[RC SETUP]** for at least 3 seconds.
The signal transmission indicator flashes twice and the setting is completed.

✎

• With some remote control units, the signals cannot be learned or the device will not operate properly even when the signals have been learned. In this case, use the device's own remote control unit.
• Learned buttons have priority over the preset memory. If you no longer need the learned setting, reset the learning function (☞ page 65).

NOTE

• **[HOME]** cannot be learned.
• Do not learn any remote control signals at **[RC SETUP]**.
• The AMP, ZONE2, ZONE3, ZONE4 and SYSTEM CALL modes cannot be learned.

Signal transmission indicator

[⟷ AMP]

[MODE SELECTOR]

[SYSTEM CALL]

[POWER ON]

[CHANNEL +/–]

[NUMBER]

[RC SETUP]

[|◄◄],
[►►|],
[◄◄],
[►►],
[►], [❙❙],
[■]

System Call Function

This function lets you register a series of operations at a single button.

For example, the amplifier can be turned on, the input source selected, the monitor's power turned on, the source device's power turned on and the play mode set all by pressing a single button.

Up to 32 signals each can be registered at **[SYSTEM CALL]** (**1**, **2** or **3**).

Registering

1 Press **[MODE SELECTOR]** for the device you want to register.

2 Press and hold in **[RC SETUP]** for at least 3 seconds.
The signal transmission indicator flashes twice.

3 Press **[9]**, **[7]** and **[8]**, in that order.
The signal transmission indicator flashes twice and the system call registration mode is set.

4 Press **[SYSTEM CALL]** (**1**, **2** or **3**) at which you want to register the signals.

5 Press the buttons you want to register in the same sequence as the operations you want to perform.
The signal transmission indicator lights when a button is pressed.
Example : Press **[POWER ON]**.
↓
Press **[MODE SELECTOR]** – **[DVD]**.
↓
Press **[►]**.
※ The mode can be switched by pressing **[MODE SELECTOR]**.
※ Perform the registration procedure for all the buttons you want to register.

6 Press and hold in **[RC SETUP]** for at least 3 seconds.
The signal transmission indicator flashes twice and the setting is completed.

Calling out

1 Press **[AMP]**, to select "SYSTEM CALL".

2 Press **[SYSTEM CALL]** (**1**, **2** or **3**) at which the signals were registered.
The registered signals are transmitted in the registered sequence.

Punch Through Function

CD, DVD or VCR mode buttons can be stored at unused TV or SAT/CBL mode buttons.

For example, when DVD mode buttons are assigned to the TV mode, the DVD mode operations can be performed while in the TV mode.

1 Press **[MODE SELECTOR]** for the device you want to punch through (CD, DVD or VCR).

2 Press and hold in **[RC SETUP]** for at least 3 seconds.
The signal transmission indicator flashes twice.

3 Press **[9]**, **[8]** and **[4]**, in that order.
The signal transmission indicator flashes twice and the punch through setting mode is set.

4 Press the button you want to punch through (**►**, **■**, **◄◄**, **►►**, **|◄◄**, **►►|** or **❙❙**).

5 Press **[MODE SELECTOR]** for the device you want to punch through (TV or SAT/CBL).

6 Press and hold in **[RC SETUP]** for at least 3 seconds.
The signal transmission indicator flashes twice and the setting is completed.

Setting the Time the Backlight Stays Lit

1 **Press and hold in [RC SETUP] for at least 3 seconds.**
The signal transmission indicator flashes twice.

2 **Press [9], [7] and [3], in that order.**
The signal transmission indicator flashes twice and the backlight on time setting mode is set.

3 **Set the light on time.**
The signal transmission indicator flashes twice.
[Settable times] : [1] : 5 sec.
　　　　　　　　[2] : 10 sec. (Default)
　　　　　　　　[3] : 15 sec.
　　　　　　　　[4] : 20 sec.
　　　　　　　　[5] : 25 sec.

Adjusting the Backlight's Brightness

The display's brightness can be adjusted in 5 steps.
(Default: Step 3)

1 **Press and hold in [RC SETUP] for at least 3 seconds.**
The signal transmission indicator flashes twice.

2 **Press [CHANNEL +] or [CHANNEL –].**
The display gets one step brighter when **[+]** is pressed.
The display gets one step darker when **[–]** is pressed.

3 **Press [RC SETUP] to complete the setting.**

Resetting the Main Remote Control Unit

Learning Function

[Resetting button by button]

1 **Press [MODE SELECTOR] for the device you want to reset.**

2 **Press and hold in [RC SETUP] for at least 3 seconds.**
The signal transmission indicator flashes twice.

3 **Press [9], [7] and [6], in that order.**
The signal transmission indicator flashes twice.

4 **Press the button you want to reset twice.**
The signal transmission indicator flashes twice.

[Resetting by device mode]

1 **Press [MODE SELECTOR] for the device you want to reset.**

2 **Press and hold in [RC SETUP] for at least 3 seconds.**
The signal transmission indicator flashes twice.

3 **Press [9], [7] and [6], in that order.**
The signal transmission indicator flashes twice.

4 **Press [MODE SELECTOR] for the device you want to reset twice.**
The signal transmission indicator flashes twice.

System Call Function

1 **Press and hold in [RC SETUP] for at least 3 seconds.**
The signal transmission indicator flashes twice.

2 **Press [9], [7] and [8], in that order.**
The signal transmission indicator flashes twice.

3 **Press [SYSTEM CALL] (1, 2 or 3) you want to reset.**

4 **Press and hold in [RC SETUP] for at least 3 seconds.**
The signal transmission indicator flashes twice.

Punch Through Function

1 **Press [MODE SELECTOR] for the device you want to reset (TV or SAT/CBL).**

2 **Press and hold in [RC SETUP] for at least 3 seconds.**
The signal transmission indicator flashes twice.

3 **Press [9], [8] and [4], in that order.**
The signal transmission indicator flashes twice.

4 **Press and hold in [RC SETUP] for at least 3 seconds.**
The signal transmission indicator flashes twice.

All Settings

1 **Press and hold in [RC SETUP] for at least 3 seconds.**
The signal transmission indicator flashes twice.

2 **Press [9], [8] and [1], in that order.**
The signal transmission indicator flashes 4 times.
All the settings are restored to their defaults.

Sub Remote Control Unit Operations

• The sub remote control unit is equipped with frequently used buttons, so it can be used for simple remote control unit operations.
• The sub remote control unit can also be used for multi-zone, so you can use it to control the AVR-3808 from other rooms.
• The operations listed below can be performed with the sub remote control unit.
  • Switching the input source
  • Adjusting the volume
  • Tuner (AM/FM) and iPod operations
  • NET/USB direct play
  • GUI menu and ZONE2 on-screen display operations
  • Zone power on/off
• It is not possible to operate devices other than the amplifier.

[ZONE OFF]
[ZONE SELECT]
[ZONE ON]
[SOURCE SELECT]
[CHANNEL +/–]
[VOLUME +/–]
[MUTE]
[SHIFT]
[MENU]
[ENTER]
[△ ▽ ◁▷]
[SEARCH]
[RETURN]
[|◀◀ ▶▶|], [■], [▶/||], [TUNING ▲ ▼]
[REPEAT]
[ALL MUSIC], [FAVORITES]
[RANDOM]
[USB]
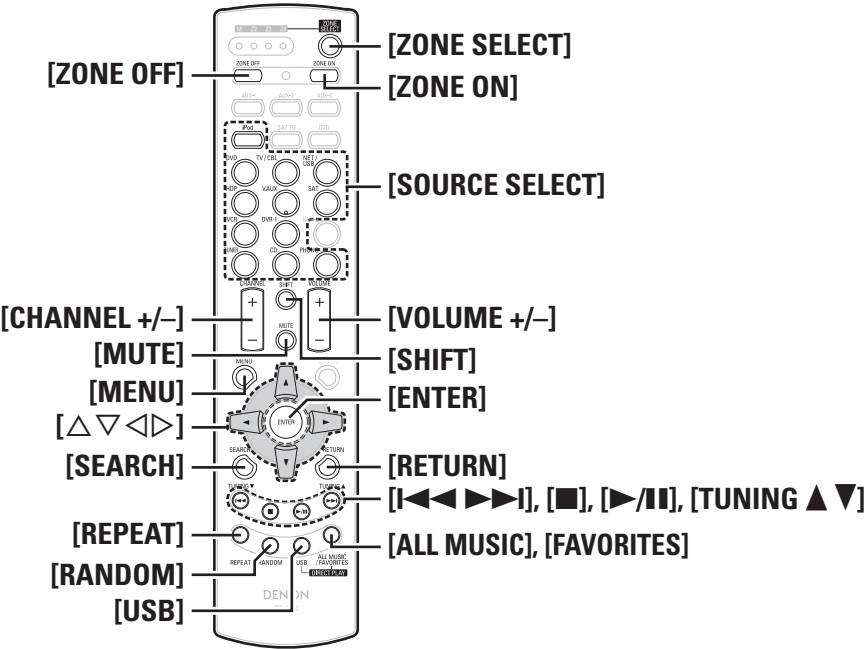
Functions of Buttons by Component

Device operated	DVD, HDP, TV / CBL, DVR1, VCR, V.AUX, SAT, CD, PHONO			TUNER (AM/FM)		
Zone selection	M	Z2	Z3	M	Z2	Z3
ZONE SELECT	Zone operation mode selection			Zone operation mode selection		
ZONE OFF	Power turned off (※1)			Power turned off (※1)		
ZONE ON	Power turned on (※1)			Power turned on (※1)		
SOURCE SELECT	Input source selection (※2)			Input source selection		
CHANNEL + / –	–			Preset channel selection		
SHIFT	–			Preset channel memory block selection		
VOLUME + / –	Adjustment of volume (※1)			Adjustment of volume (※1)		
MUTE	Muting (※1)			Muting (※1)		
MENU	Selected zone menu			Selected zone menu		
SEARCH	–			RDS search		
|◀◀ ▶▶|, TUNING ▲ ▼	–			Tuning		
USB	※2			※2		
ALL MUSIC * (Music server only)	※3			※3		
FAVORITES *	※4			※4		

※1: Affects the currently selected zone.
※2: The input source switches to "NET/USB" and the files on the USB memory device are played.
※3: The input source switches to "NET/USB" and the files in "All Music" on the music server are played.
※4: The input source switches to "NET/USB" and the files in "Favorites" are played.
*: Whether "All Music" or "Favorites" is selected depends on the "Direct Play" setting (☞page 40).

DIRECT PLAY button
• Playback is possible in the mode selected at GUI menu "Source Select" – "NET/USB" – "Playback Mode" – "Direct Play".   **FAVORITES**: Playback starts from the first track registered in the favorites.   **ALL MUSIC**: Playback starts from the first track registered in the "All Music" folder.   • When **[USB]** is pressed, playback starts from the first track on the USB memory device.

NOTE

When the music server is stopped or restarted, it may no longer be possible to play tracks stored in the favorites.

Device operated	NET / USB			iPod		
Zone selection	M	Z2	Z3	M	Z2	Z3
ZONE SELECT	Zone operation mode selection			Zone operation mode selection		
ZONE OFF	Power turned off (※1)			Power turned off (※1)		
ZONE ON	Power turned on (※1)			Power turned on (※1)		
SOURCE SELECT	Input source selection (※2)			Input source selection		
CHANNEL + / −	Preset channel selection			–		
SHIFT	Preset channel memory block selection			–		
VOLUME + / −	Adjustment of volume (※1)			Adjustment of volume (※1)		
MUTE	Muting (※1)			Muting (※1)		
MENU	Selected zone menu			Selected zone menu		
△ ▽ ◁ ▷	File operations			File operations		
ENTER	File operations			File operations		
SEARCH	Page forward screen / Character search			Page forward screen / Browse/Remote mode switching (press and hold)		
RETURN	File operations			–		
⏮ ⏭, TUNING ▲ ▼	Track search			Track search		
■	Stop			Stop		
▶/Ⅱ	Play/pause			Play/pause		
REPEAT	1-track/All-track repeat play (USB)			1-track/All-track repeat play		
RANDOM	1-track random play (USB)			1-track/album shuffle play		
USB	※2			※2		
ALL MUSIC * (Music server only)	※3			※3		
FAVORITES *	※4			※4		

※1: Affects the currently selected zone.

※2: The input source switches to "NET/USB" and the files on the USB memory device are played.

※3: The input source switches to "NET/USB" and the files in "All Music" on the music server are played.

※4: The input source switches to "NET/USB" and the files in "Favorites" are played.

*: Whether "All Music" or "Favorites" is selected depends on the "Direct Play" setting (☞page 40).

Multi-zone indicator — **[ZONE SELECT]**

[ZONE OFF] — **[ADVANCED SETUP]**

[MENU]

[RANDOM] — **[USB]**

[REPEAT] — **[ALL MUSIC/FAVORITES]**

Switching Zones

Use this procedure to select the zone to be operated by the sub remote control unit.

1 **Press [ZONE SELECT].**
The currently selected multi-zone indicator lights.

2 **While the multi-zone indicator is light, press [ZONE SELECT] to select the zone to be operated.**
The currently selected multi-zone indicator lights.

Setting the Zone for Which the Sub Remote Control Unit is Used (ZONE SELECT LOCK mode)

We recommend always using the sub remote control unit for the same room. When this is done, the unit can be set so that the zone does not switch when buttons are operated.

1 **Use the tip of a pen to press [ADVANCED SETUP].**
All the multi-zone indicators light.

2 **Select the multi-zone to be set.**
The selected multi-zone indicator lights.
①To set to main zone : Press **[REPEAT]**.
②To set to ZONE2   : Press **[RANDOM]**.
③To set to ZONE3   : Press **[USB]**.

3 **Use the tip of a pen to press [ADVANCED SETUP].**
The multi-zone indicator turns off.

To Cancel

1 **Use the tip of a pen to press [ADVANCED SETUP].**
The currently selected multi-zone indicator lights.

2 **Press [ZONE SELECT].**
All the multi-zone indicators light.

3 **Use the tip of a pen to press [ADVANCED SETUP].**
The multi-zone indicator turns off.

Setting the Remote ID

When using multiple DENON AV receivers in the same room, make this setting so that no AV receiver other than the desired one operates.

1 **While pressing [MENU], press [ADVANCED SETUP] with the tip of a pen.**
The multi-zone indicator corresponding to the currently selected remote ID flashes.

2 **Select the remote ID to be set.**

①To set to 1 : Press **[REPEAT]**.
  The "M" indicator flashes.
②To set to 2 : Press **[RANDOM]**.
  The "Z2" indicator flashes.
③To set to 3 : Press **[USB]**.
  The "Z3" indicator flashes.
④To set to 4 : Press **[ALL MUSIC/FAVORITES]**.
  The "Z4" indicator flashes.

3 **While pressing [MENU], press [ADVANCED SETUP] with the tip of a pen.**
The multi-zone indicator turns off.

NOTE

When changing a setting, be sure to set the same remote ID as the AVR-3808's (☞page 35).

Resetting the Settings

While pressing [ZONE OFF], press [ADVANCED SETUP] with the tip of a pen.
All the multi-zone indicators flash 4 times, then all the settings are restored to their defaults.

Amp Assign / Multi-Zone Connections and Operations

The AVR-3808 is compatible with the following types of playback:
• **Multi-zone playback (ZONE2 & ZONE3)**
• **Bi-amp playback (front speaker)**

NOTE

• For bi-amp playback, use speakers compatible with that type of connection.
• When conducting bi-amp playback, remove the short-circuiting boards (or wires) from the speaker terminals.

Multi-Zone Settings with the Amp Assign Function

The amp assign function lets you assign the amplifiers for the different channels built into the AVR-3808 to the speaker outputs for the different zones.

Select the desired playback environment from among "Setting 1" to "Setting 4", then set the corresponding "Amp Assign" mode at GUI menu "Manual Setup" – "Option Setup" – "Amp Assign" (☞page 34).

Connect the speakers as described at "Amp Assign mode settings and speakers connected to the various speaker terminals".

🖉

"Setting 3" is possible to switch the Amp Assign mode between the 5.1-channel mode and 2-channel mode without changing the speaker connections.

Setting 1 :
● **7.1-channel playback**
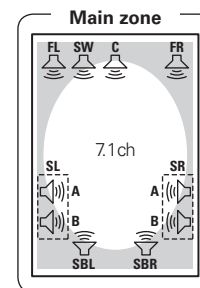
Amp Assign mode:
7CH (Default)

🖉
Both A and B can be installed for SR and SL.

❏ **Amp Assign mode setting and speakers connected to the various speaker terminals**

Speaker terminal / Amp Assign mode	FRONT		CENTER	SURR-A		SURR-B		SURR. BACK / AMP ASSIGN	
	R	L		R	L	R	L	R	L
7.1CH	FR	FL	C	SR-A	SL-A	SR-B	SL-B	SBR	SBL

Setting 2 :
●Multi-zone playback
• 5.1-channel playback + ZONE2 or ZONE3 stereo playback
• 5.1-channel playback + ZONE2 or ZONE3 monaural playback

Amp Assign mode:

ZONE2

ZONE3

ZONE (MONO)

✎
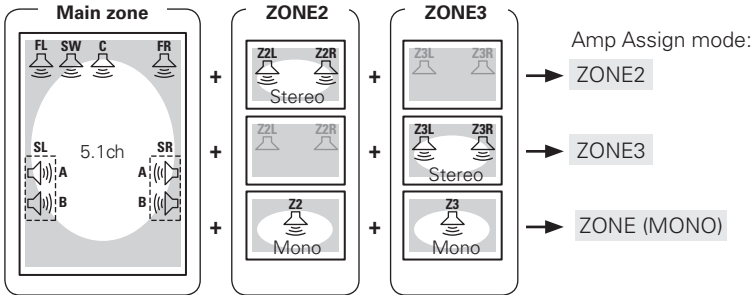
• "STEREO" or "MONO" depends on the setting at GUI menu "Manual Setup" – "Zone Setup" – "Channel" (☞ page 33).
• Both A and B can be installed for SR and SL.

❏ **Amp Assign mode setting and speakers connected to the various speaker terminals**

Speaker terminal / Amp Assign mode	FRONT		CENTER	SURR-A		SURR-B		SURR. BACK / AMP ASSIGN	
	R	L		R	L	R	L	R	L
ZONE2	FR	FL	C	SR-A	SL-A	SR-B	SL-B	Z2R	Z2L
ZONE3	FR	FL	C	SR-A	SL-A	SR-B	SL-B	Z3R	Z3L
ZONE (MONO)	FR	FL	C	SR-A	SL-A	SR-B	SL-B	Z3 (MONO)	Z2 (MONO)

Setting 3 : With this setting it is possible to switch between the following two playback modes.
●5.1-channel playback
●2-channel playback
Switching ················Surround Mode switching
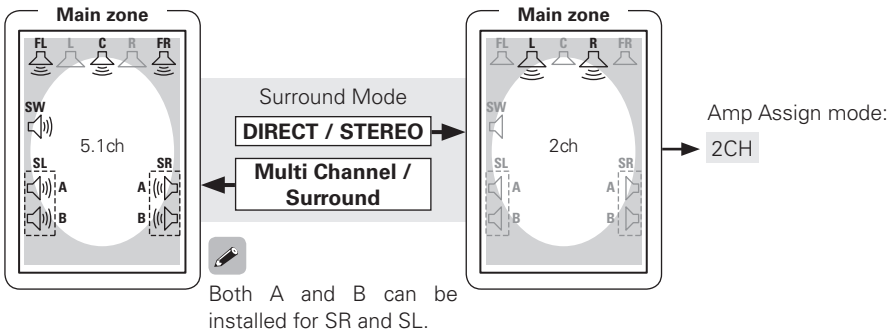
Surround Mode

DIRECT / STEREO

Multi Channel / Surround

Amp Assign mode:

2CH

✎

Both A and B can be installed for SR and SL.

❏ **Amp Assign mode setting and speakers connected to the various speaker terminals**

Speaker terminal / Amp Assign mode	FRONT		CENTER	SURR-A		SURR-B		SURR. BACK / AMP ASSIGN	
	R	L		R	L	R	L	R	L
2CH	FR	FL	C	SR-A	SL-A	SR-B	SL-B	FR	FL

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Setting 4 :
●Making bi-amp connections for the FL and FR channels in the main zone and conducting 5.1-channel playback
(switching with other modes not possible)

Main zone

FL SW C FR

5.1ch
FL/FR
Bi-Amp

SL   SR
A   A
B   B
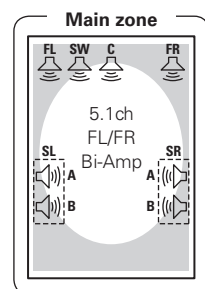
Amp Assign mode:

→ Bi-Amp

✎ Both A and B can be installed for SR and SL.

❏ Amp Assign mode setting and speakers connected to the various speaker terminals

Speaker terminal	FRONT		CENTER	SURR-A		SURR-B		SURR. BACK / AMP ASSIGN	
Amp Assign mode	R	L		R	L	R	L	R	L
								FR	FL
Bi-Amp	FR	FL	C	SR-A	SL-A	SR-B	SL-B	FL/FR Bi-Amp connection	

Multi-Zone Settings and Operations with Zone Pre-out Output

Prepare power amplifiers for ZONE2 and ZONE3.

	Connectors for audio output	Audio signals	Connectors for video output
ZONE2	ZONE2 PRE OUT	Stereo	ZONE2 VIDEO OUT
ZONE3	ZONE3 PRE OUT	Stereo	–

Main zone (7.1-channel system)

Monitor

FL SW   C   FR

DVD player   AVR-3808   ZONE2 video output

Input   ZONE2 audio output

SL

Remote control unit

SB L   SB R   SR

ZONE3 audio output

ZONE2

Monitor

Power amplifier

ZONE3

Power amplifier
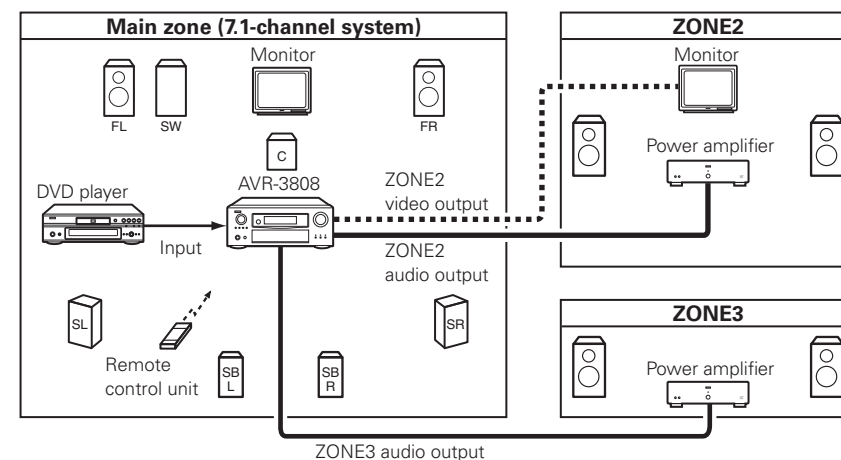
- - - - - - - - - - : Multi-zone video cable
————— : Multi-zone audio cable

✎

• When only using one speaker for ZONE2 or ZONE3, set to "Mono". In this case, the ZONE2 (ZONE3) monaural output is output from the ZONE2 (ZONE3) pre-out L and R connectors, so connect as desired.
• Separate power amplifiers are needed for ZONE2 and ZONE3.
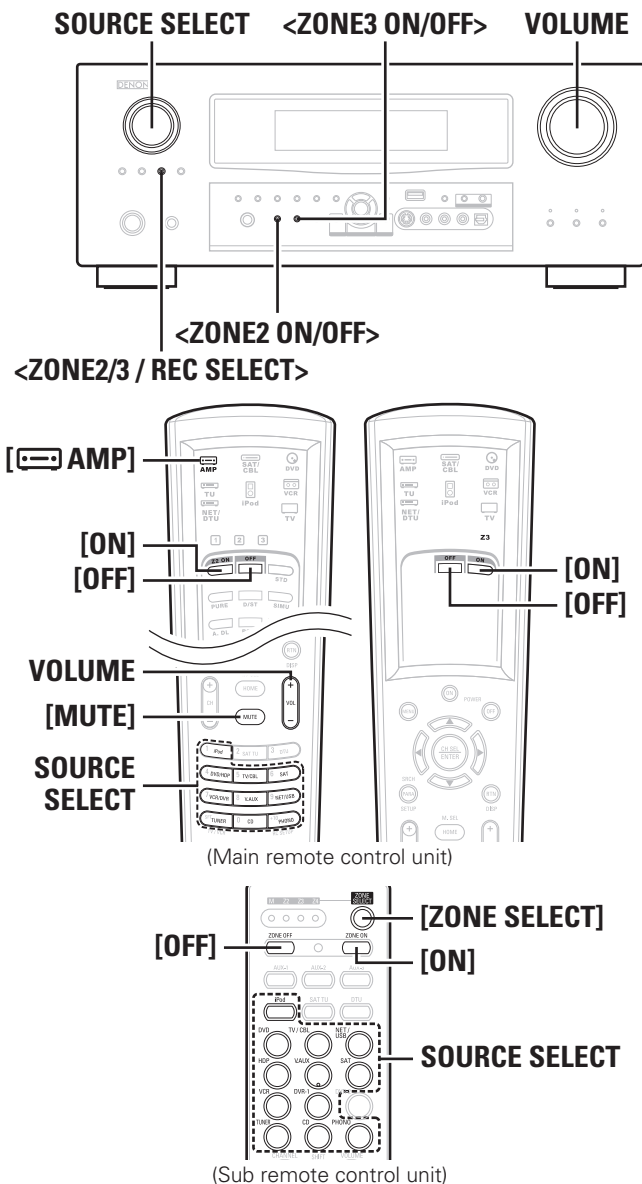
Getting Started

Connections

Setup

Playback

Remote Control

Multi-Zone

Information

Troubleshooting

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SOURCE SELECT   <ZONE3 ON/OFF>   VOLUME

<ZONE2 ON/OFF>

<ZONE2/3 / REC SELECT>

[⚏ AMP]

[ON]
[OFF]

[ON]
[OFF]

VOLUME

[MUTE]

SOURCE
SELECT

(Main remote control unit)

[ZONE SELECT]

[OFF]

[ON]

SOURCE SELECT

(Sub remote control unit)

About the button names in these explanations
< > : Buttons on the main unit
[ ] : Buttons on the remote control unit
Button name only:
Buttons on the main unit and remote control unit

Multi-Zone Operations

Turning the Power On and Off

【Operation on the main unit】
Press **<ZONE2 ON/OFF>** or **<ZONE3 ON/OFF>** for the zone to be operated. When the power turns on, the multi-zone indicator lights on the display.

【Operation on the remote control unit】
In the zone mode you want to operate, press **[ON]** or **[OFF]**.

Selecting the Input Source

【Operation on the main unit】
① Press **<ZONE2/3 / REC SELECT>** and select the zone to be adjusted.
② Turn **<SOURCE SELECT>**.

【Operation on the remote control unit】
In the zone mode you want to operate, press **[SOURCE SELECT]**.

Adjusting the Volume

【Operation on the main unit】
① Press **<ZONE2/3 / REC SELECT>** and select the zone to be adjusted.
② Turn **<VOLUME>** to adjust.

【Operation on the remote control unit】
In the zone mode whose volume you want to adjust, press **[VOLUME]**.

[Variable range]   − − −   −70dB   ~   −40dB   ~   +18dB

✎

The volume can be adjusted when GUI menu "Manual Setup" – "Zone Setup" – "(select the zone)" – "Volume Level" is set to "Variable". The volume can be increased up to the value set at GUI menu "Manual Setup" – "Zone Setup" – "(select the zone)" – "Volume Limit" (☞ page 33).

Turning off the Sound Temporarily

In the zone mode for which you want to mute the sound, press **[MUTE]**.
The sound is reduced to the level set at GUI menu "Manual Setup" – "Zone Setup" – "(select the zone)" – "Mute Level" (☞ page 33).
To cancel, either adjust the volume or press **[MUTE]** again.
The setting is canceled when the zone's power is turned off.

✎

• The source selected for ZONE2 is also output from the recording output connectors.
• For ZONE2, the "Zone Setup" can be made while watching the on-screen display. Also, when ZONE3 is operated, the on-screen display appears on the ZONE2 monitor, so operation can be performed watching this on-screen display.

```
ZONE2  MENU

INPUT :DVD
SIGNAL:ANALOG
VOL.  :−40dB

>Bass           ◄    0dB►
 Treble         ◄    0dB►
 HPF            ◄   OFF ►
 Lch Lev.       ◄    0dB►
 Rch Lev.       ◄    0dB►
```

```
   ZONE2  MENU

>Channel        ◄STEREO►
 Vol.Lev.       ◄  VAR  ►
 Vol.Limit      ◄  OFF  ►
 P.On Lev.         LAST►
 Mute Lev.      ◄  FULL►
```
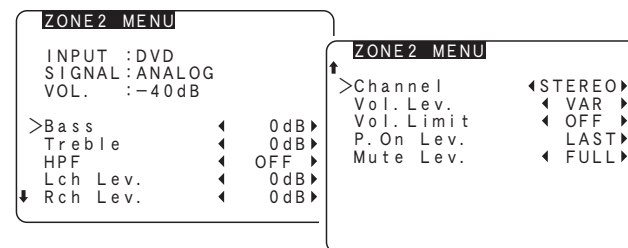
NOTE

• When the input source to which the digital input connectors (OPTICAL/COAXIAL) are assigned is selected in ZONE2 or ZONE3, playback is only possible if the digital signal being input is in PCM (2-channel) format.
• Digital audio signals input from the DENON LINK or HDMI connectors cannot be played in multi-zone.
• When certain digital signals are being input, noise may be output from the ZONE2 and ZONE3 audio output connectors.
• When "DENON LINK" is assigned at the GUI menu "Assign" setting, the PCM signals, network audio signals (Internet radio, music server and USB) input from the digital input connectors cannot be output from the ZONE2 and ZONE3 audio output connectors.

Other Information

About Speaker Installation

Surround back speakers

Sound positioning directly to the rear can be achieved easily by adding a surround back speaker to a 5.1-channel system.

In addition, the acoustic image extending between the sides and the rear is narrowed, thus greatly improving the expression of the surround signals for sounds moving from the sides to the back and from the front to the point directly behind the listening position.

Change of positioning and acoustic image with 5.1-channel systems
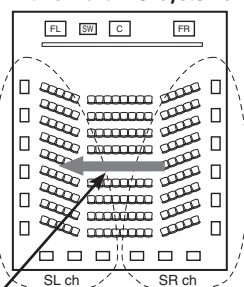
Movement of acoustic image from SR to SL

Change of positioning and acoustic image with 6.1-channel systems
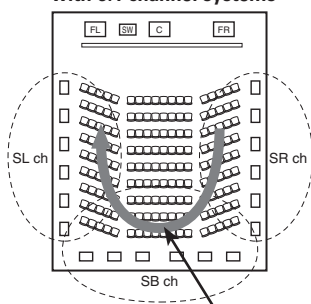
Movement of acoustic image from SR to SB to SL

In addition to sources recorded in 6.1-channels, the surround effect of conventional 2- to 5.1-channel sources can also be enhanced.

Number of surround back speakers

We recommend using 2 speakers.
When using dipolar speakers in particular, be sure to use 2 speakers.

Placement of the surround left and right channels when using surround back speakers

We recommend installing the speakers for the surround "L" and "R" channels a bit forward.

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.

〔1〕 Using surround back speaker(s)

① **When mainly playing movies**
Recommended when your surround speakers are single or 2-way speakers.
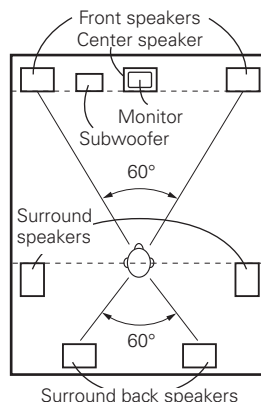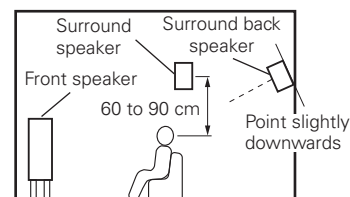
[As seen from above]   [As seen from the side]

② **Setting for primarily watching movies using diffusion type speakers for the surround speakers**
For the greatest sense of surround sound envelopment, diffuse radiation speakers such as bipolar types, or dipolar types, provide a wider dispersion than is possible to obtain from a direct radiating speaker (monopolar). Place these speakers at either side of the prime listening position, mounted above ear level.

Path of the surround sound from the speakers to the listening position
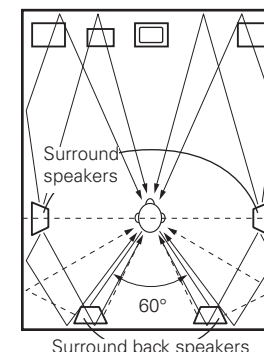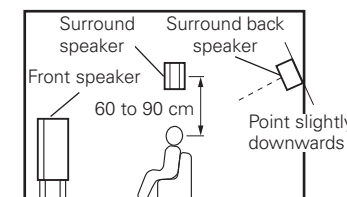
[As seen from above]   [As seen from the side]

③ **When playing movies and music**

[As seen from above]   [As seen from the side]

73
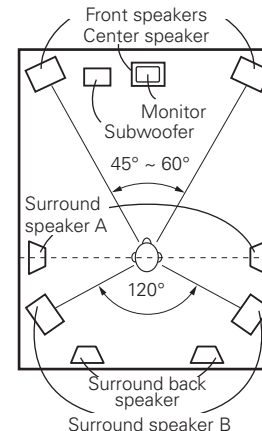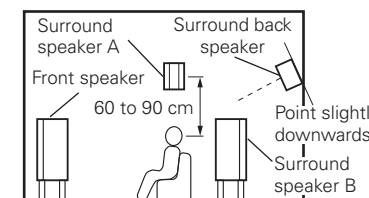
【2】 When not using surround back speakers

Front speakers
Center speaker
Monitor
Subwoofer
60°
120°
Surround speakers

[As seen from above]

Surround speaker
Front speaker
60 to 90 cm

[As seen from the side]
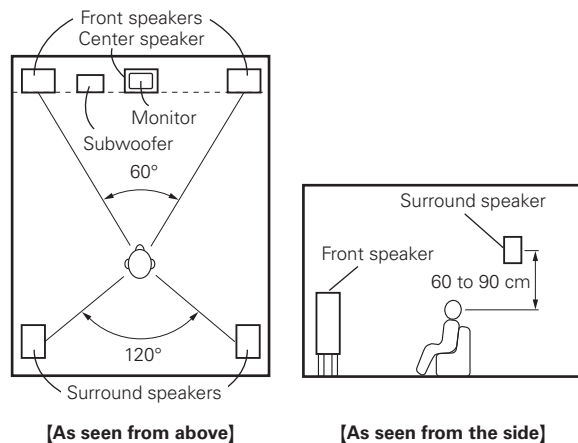
Surround

The AVR-3808 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 multi-channel digital signal format developed by Dolby Laboratories.

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

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

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

Dolby Digital Plus

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

Dolby TrueHD

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

This format is compatible with a maximum sampling frequency of 96 kHz and up to 7.1-channels, so it is used for applications particularly prioritizing sound quality.

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.

Dolby Pro Logic Ⅱx

Dolby Pro Logic Ⅱx is a further improved version of the Dolby Pro Logic Ⅱ matrix decoding technology.

Audio signals recorded in 2-channels are decoded to achieve a natural sound with up to 7.1-channels.

There are 3 modes: "Music" suited for playing music, "Cinema" suited for playing movies, and "Game" which is optimized for playing games.

※ Sources recorded in Dolby Surround

Sources recorded in Dolby Surround are indicated with the following logo marks.

Dolby Surround support mark : ⫿⫿ **DOLBY SURROUND**

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-HD High Resolution Audio

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

DTS-HD Master Audio

DTS-HD Master Audio is DTS, Inc's lossless audio format compatible with up to 96 kHz/7.1-channels. The lossless audio coding technology faithfully reproduces the sound of the studio master. It is fully compatible with conventional products, including conventional DTS digital surround 5.1-channel data.

DTS-ES™ Discrete 6.1

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

DTS-ES™ Matrix 6.1

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

DTS NEO:6™ Surround

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

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; 6,226,616; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark and the DTS logos, Symbol, DTS-HD and DTS-HD Master Audio are trademarks of DTS, Inc.© 1996-2007 DTS, Inc. All Rights Reserved.

Audyssey MultEQ® XT

Audyssey MultEQ® XT is the first technology to properly measure sound information throughout a listening area, then combine this information to accurately represent the acoustical problems in the room. Based on these measurements, MultEQ XT calculates an equalization solution that corrects for both time and frequency response problems in every seat.

Audyssey MultEQ XT not only corrects frequency response problem in a large listening area, it also performs a fully automated surround system setup.

For a detailed description, see page 25.

AUDYSSEY
MULTEQ XT

Audyssey MultEQ® XT is a trademark of Audyssey Laboratories. It is licensed under U.S. and National Patent Applications 20030235318 and 10/700,220. Additional U.S. and Foreign Patents pending. MultEQ XT and the Audyssey MultEQ XT logo are trademarks of Audyssey Laboratories, Inc. All rights reserved.

HDCD® (High Definition Compatible Digital®)

HDCD® is an encoding/decoding technology that greatly reduces the distortion that occurs upon digital recording while maintaining compatibility with the conventional CD format, thus expanding the dynamic range and achieving a high resolution.
Conventional CDs and HDCD compatible CDs are identified automatically to select the optimum digital processing.

HDCD ®, HDCD®, High Definition Compatible Digital® and Microsoft® are either registered trademarks or trademarks of Microsoft Corporation, Inc. in the United States and/or other countries. HDCD system manufactured under license from Microsoft Corporation, Inc. This product is covered by one or more of the following: In the USA: 5,479,168, 5,638,074, 5,640,161, 5,808,574, 5,838,274, 5,854,600, 5,864,311, 5,872,531, and in Australia: 669114. Other patents pending.

DENON LINK

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

AL24 Processing Plus

AL24 Processing for All Channels
DENON has further developed its proprietary AL24 Processing, an analog waveform reproduction technology, to support the 192 kHz sampling frequency of DVD-Audio. AL24 Processing Plus, thoroughly suppresses quantization noise associated with D/A conversion of LPCM signals to reproduce the low-level signals with optimum clarity that will bring out all the delicate nuances of the music.
Equipped foe not only front left and right channels but also for the surround left and right, center and subwoofer channels.

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 was 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.

Lip Sync

Because consumer electronics devices are using increasingly complex digital signal processing to enhance the clarity and detail of the content, synchronization of video and audio in user devices has become a greater challenge and could potentially require complex end-user adjustments. HDMI 1.3 incorporates an automatic video/audio synching capability that allows devices to perform this synchronization automatically with total accuracy.

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

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	Surround Back L/R	Subwoofer	D. COMP *1	LFE *2	AFDM *1	SB CH Out	Cinema EQ.
PURE DIRECT, DIRECT	○	×	×	×	◎	○ (OFF)	○ (0 dB)	×	×	×
DSD DIRECT	○	×	×	×	×	×	×	×	×	×
DSD MULTI DIRECT	○	◎	◎	◎	◎	×	○ (0 dB)	×	○	×
MULTI CH DIRECT	○	◎	◎	◎	◎	×	○ (0 dB)	○ (ON)	○	×
STEREO	○	×	×	×	◎	○ (OFF)	○ (0 dB)	×	×	×
EXT. IN	○	◎	◎	◎	◎	×	×	×	×	×
MULTI CH IN	○	◎	◎	◎	◎	×	○ (0 dB)	○ (ON)	○	×
WIDE SCREEN	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	×	○	○ (OFF)
DOLBY PRO LOGIC IIx	○	◎	◎	◎	◎	○ (OFF)	×	×	○	○ (NOTE1)
DOLBY PRO LOGIC II	○	◎	◎	×	◎	○ (OFF)	×	×	○	○ (NOTE2)
DTS NEO:6	○	◎	◎	◎	◎	○ (OFF)	×	×	○	○ (NOTE1)
DOLBY DIGITAL	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	○ (ON)	○	○ (OFF)
DTS SURROUND	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	○ (ON)	○	○ (OFF)
7CH STEREO	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	×	○	×
SUPER STADIUM	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	×	○	×
ROCK ARENA	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	×	○	×
JAZZ CLUB	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	×	○	×
CLASSIC CONCERT	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	×	○	×
MONO MOVIE	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	×	○	×
VIDEO GAME	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	×	○	×
MATRIX	○	◎	◎	◎	◎	○ (OFF)	○ (0 dB)	×	○	×
VIRTURL	○	×	×	×	◎	○ (OFF)	○ (0 dB)	×	×	×

○ : Signal / Adjustable
× : No signal / Not adjustable
◎ : Turned on or off by speaker configuration setting

○ : Enable
× : Unable

NOTE1 : This parameter is availabe when the GUI menu "Parameter" – "Audio" – "Surround Parameters" – "Mode" is set to "Cinema" (☞ page 42).

NOTE2 : This parameter is availabe when the GUI menu "Parameter" – "Audio" – "Surround Parameters" – "Mode" is set to "Cinema" or "Pro Logic" (☞ page 42).

NOTE:
*1 : When playing Dolby Digital and DTS signals.
*2 : When playing Dolby Digital, DTS, DVD-Audio and Super Audio CD.

Surround Mode	Signals and adjustability in the different modes													
	Parameter (default values are shown in parentheses)													
	Mode	Room Size	Effect Level	Delay Time	Subwoofer	PRO LOGIC II/IIx MUSIC mode only			NEO:6 MUSIC mode only	EXT. IN only	Tone	Night Mode	Room EQ	RESTORER
						Panorama	Dimension	Center Width	Center Image	Subwoofer Att.				
PURE DIRECT, DIRECT	×	×	×	×	○	×	×	×	×	×	×	○ (OFF)	○ (NOTE5)	○
DSD DIRECT	×	×	×	×	◎	×	×	×	×	×	×	×	×	×
DSD MULTI DIRECT	×	×	×	×	×	×	×	×	×	×	×	×	×	×
MULTI CH DIRECT	×	×	×	×	×	×	×	×	×	×	×	○ (OFF)	○ (NOTE5)	×
STEREO	×	×	×	×	×	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
EXT. IN	×	×	×	×	×	×	×	×	×	○	×	×	×	×
MULTI CH IN	×	×	×	×	×	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	×
WIDE SCREEN	×	×	○ (ON, 10)	×	×	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
DOLBY PRO LOGIC IIx	○ (Cinema)	×	×	×	×	○ (OFF)	○ (3)	○ (3)	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
DOLBY PRO LOGIC II	○ (Cinema)	×	×	×	×	○ (OFF)	○ (3)	○ (3)	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
DTS NEO:6	○ (Cinema)	×	×	×	×	×	×	×	○ (0.3)	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
DOLBY DIGITAL	×	×	×	×	×	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	×
DTS SURROUND	×	×	×	×	×	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	×
7CH STEREO	×	×	×	×	×	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
SUPER STADIUM	×	○ (Medium)	○ (10)	×	×	×	×	×	×	×	○ (NOTE3)	○ (OFF)	○ (OFF)	○
ROCK ARENA	×	○ (Medium)	○ (10)	×	×	×	×	×	×	×	○ (NOTE4)	○ (OFF)	○ (OFF)	○
JAZZ CLUB	×	○ (Medium)	○ (10)	×	×	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
CLASSIC CONCERT	×	○ (Medium)	○ (10)	×	×	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
MONO MOVIE	×	○ (Medium)	○ (10)	×	×	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
VIDEO GAME	×	○ (Medium)	○ (10)	×	×	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
MATRIX	×	×	×	○ (30 ms)	×	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○
VIRTURL	×	×	×	×	×	×	×	×	×	×	○ (0 dB)	○ (OFF)	○ (OFF)	○

○ : Signal / Adjustable
× : No signal / Not adjustable
◎ : Turned on or off by speaker configuration setting

○ : Adjustable
× : Not adjustable
NOTE3 : BASS +6 dB, TREBLE 0 dB
NOTE4 : BASS +6 dB, TREBLE +4 dB
NOTE5 : Can be used according to the "Direct Mode" setting.

Getting Started
Connections
Setup
Playback
Remote Control
Multi-Zone
Information
Troubleshooting

Getting Started | Connections | Setup | Playback | Remote Control | Multi-Zone | Information | Troubleshooting

Differences in Surround Mode Names Depending on the Input Signals

Surround Mode (Button)	Note	ANALOG	LINEAR PCM / WAV	WMA (Windows Media Audio) / MP3 / MPEG-4 AAC / FLAC	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)	DVD-Audio (multi ch)	DVD-Audio (2ch)	DSD (multi ch)	DSD (2ch)
STANDARD																	
DTS SURROUND																	
DTS ES DSCRT6.1	*1	×	×	×	● ◎	×	×	×	×	×	×	×	×	×	×	×	×
DTS ES MTRX6.1	*1	×	×	×	×	● ◎	×	×	×	×	×	×	×	×	×	×	×
DTS SURROUND		×	×	×	○	○	●	×	×	×	×	×	×	×	×	×	×
DTS 96/24		×	×	×	×	×	×	●	×	×	×	×	×	×	×	×	×
DTS + PLIIx CINEMA	*2	×	×	×	○	○	○	○	×	×	×	×	×	×	×	×	×
DTS + PLIIx MUSIC	*1	×	×	×	○	○	○	○	×	×	×	×	×	×	×	×	×
DTS + NEO:6	*1	×	×	×	×	○	○	○	×	×	×	×	×	×	×	×	×
DTS NEO:6 CINEMA		○	○	○	×	×	×	×	×	×	×	×	○	×	○	×	○
DTS NEO:6 MUSIC		○	○	○	×	×	×	×	×	×	×	×	○	×	○	×	○
DOLBY SURROUND																	
DOLBY DIGITAL EX	*1	×	×	×	×	×	×	×	○	○	○	○	×	×	×	×	×
DOLBY DIGITAL		×	×	×	×	×	×	×	○	●	●	●	×	×	×	×	×
DOLBY DIGITAL + PLIIx CINEMA	*2	×	×	×	×	×	×	×	● ◎	○	○	○	×	×	×	×	×
DOLBY DIGITAL + PLIIx MUSIC	*1	×	×	×	×	×	×	×	○	○	○	○	×	×	×	×	×
DOLBY PRO LOGIC IIx CINEMA		○	○	○	×	×	×	×	×	×	×	×	●	×	○	×	○
DOLBY PRO LOGIC IIx MUSIC		○	○	○	×	×	×	×	×	×	×	×	○	×	○	×	○
DOLBY PRO LOGIC IIx GAME		○	○	○	×	×	×	×	×	×	×	×	○	×	○	×	○
DOLBY PRO LOGIC II CINEMA		○	○	○	×	×	×	×	×	×	×	×	○	×	○	×	○
DOLBY PRO LOGIC II MUSIC		○	○	○	×	×	×	×	×	×	×	×	○	×	○	×	○
DOLBY PRO LOGIC II GAME		○	○	○	×	×	×	×	×	×	×	×	○	×	○	×	○
DOLBY PRO LOGIC		○	○	○	×	×	×	×	×	×	×	×	○	×	○	×	○
MULTI CH IN																	
MULTI CH IN		×	×	×	×	×	×	×	×	×	×	×	×	●	×	●	×
MULTI IN + PLIIx CINEMA	*2	×	×	×	×	×	×	×	×	×	×	×	×	○	×	○	×
MULTI IN + PLIIx MUSIC	*1	×	×	×	×	×	×	×	×	×	×	×	×	○	×	○	×
MULTI CH IN 7.1		×	×	×	×	×	×	×	×	×	×	×	×	● ◎ (7.1)	×	×	×

NOTE:

*1: This mode is not available when the surround back speaker setup is set to "None".

*2: This mode is not available when the surround back speaker setup is set to "1spkr" or "None".

● : Mode selectable in initial status

◎ : Mode fixed when "AFDM" is "ON"

○ : Selectable mode

× : Non-selectable mode

Button	Note	Input signals															
					DTS				DOLBY DIGITAL					DVD-AUDIO		Super Audio CD	
Surround Mode	Note	ANALOG	LINEAR PCM / WAV	WMA (Windows Media Audio) / MP3 / MPEG-4 AAC / FLAC	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)	DVD-Audio (multi ch)	DVD-Audio (2ch)	DSD (multi ch)	DSD (2ch)
DIRECT																	
DIRECT		○	○	○	○	○	○	○	○	○	○	○	○	×	○	×	○
DSD DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○
DSD MULTI DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
MULTI CH DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	○	×	○	×
M DIRECT + PLIIx CINEMA	*2	×	×	×	×	×	×	×	×	×	×	×	×	○	×	○	×
M DIRECT + PLIIx MUSIC	*1	×	×	×	×	×	×	×	×	×	×	×	×	○	×	○	×
M DIRECT 7.1		×	×	×	×	×	×	×	×	×	×	×	×	○	×	×	×
PURE DIRECT																	
PURE DIRECT		○	○	○	○	○	○	○	○	○	○	○	○	×	○	×	○
DSD PURE DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○
DSD MULTI PURE		×	×	×	×	×	×	×	×	×	×	×	×	×	×	○	×
MULTI CH PURE DIRECT		×	×	×	×	×	×	×	×	×	×	×	×	○	×	○	×
M PURE D + PLIIx CINEMA	*2	×	×	×	×	×	×	×	×	×	×	×	×	○	×	○	×
M PURE D + PLIIx MUSIC	*1	×	×	×	×	×	×	×	×	×	×	×	×	○	×	○	×
M CH PURE DIRECT 7.1		×	×	×	×	×	×	×	×	×	×	×	×	○	×	×	×
DSP SIMULATION																	
7CH STEREO	*3	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
WIDE SCREEN		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
SUPER STADIUM		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
ROCK ARENA		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
JAZZ CLUB		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
CLASSIC CONCERT		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MONO MOVIE		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VIDEO GAME		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
MATRIX		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
VIRTUAL		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
STEREO																	
STEREO		●	●	●	○	○	○	○	○	○	○	○	○	○	●	○	●

NOTE :

*1: This mode is not available when the surround back speaker setup is set to "None".

*2: This mode is not available when the surround back speaker setup is set to "1spkr" or "None".

*3: If the surround back speaker setup is set to "None", then "5CH STEREO" is displayed.

● : Mode selectable in initial status

○ : Selectable mode

× : Non-selectable mode

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About Networks

Windows Media Player ver.11

This is a media player distributed free of charge by Microsoft Corporation.

It can be used to play playlists created with Windows Media Player ver. 11 as well as files in such formats as WMA, DRM WMA, MP3 and WAV.

vTuner

This is a free online contents server for Internet radio. Note that usage fees are included in upgrade costs.

For inquiries about this service, visit the vTuner site below.

vTuner website: http://www.radiodenon.com

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DLNA

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- Some contents may not be compatible with other DLNA CERTIFIED™ products.

Windows Media DRM

A copyright-protected technology developed by Microsoft.

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- The PlaysForSure logo, Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.
- Content providers are using the digital rights management technology for Windows Media contained in this device (WM-DRM) to protect the integrity of their content (Secure Content) so that their intellectual property, including copyright, in such content is not misappropriated. This device uses WM-DRM software to play Secure Content (WM-DRM Software). If the security of the WM-DRM Software in this device has been compromised, owners of Secure Content (Secure Content Owners) may request that Microsoft revoke the WM-DRM Software's right to acquire new licenses to copy, display and/or play Secure Content. Revocation does not alter the WM-DRM Software's ability to play unprotected content. A list of revoked WM-DRM Software is sent to your device whenever you download a license for Secure Content from the Internet or from a PC. Microsoft may, in conjunction with such license, also download revocation list onto your device on behalf of Secure Content Owners.

Relationship Between Video Signals and Monitor Output

❏ Main zone

Video Convert		Input signal				Monitor output				Monitor output (when GUI menu displayed)			
		HDMI	COMPONENT	S-VIDEO	VIDEO	HDMI	COMPONENT	S-VIDEO	VIDEO	HDMI	COMPONENT	S-VIDEO	VIDEO
ON		✕	✕	✕	✕	※				※ *3	*3	*3	*3
		✕	✕	✕	○	※ VIDEO*1	VIDEO*1	VIDEO*1 *4	VIDEO*1 *4	※ VIDEO*2	VIDEO*2	VIDEO*2	VIDEO*2
		✕	✕	○	✕	※ S-VIDEO*1	S-VIDEO*1	S-VIDEO*1	S-VIDEO*1	※ S-VIDEO*2	S-VIDEO*2	S-VIDEO*2	S-VIDEO*2
		✕	✕	○	○	※ S-VIDEO*1	S-VIDEO*1	S-VIDEO*1	S-VIDEO*1	※ S-VIDEO*2	S-VIDEO*2	S-VIDEO*2	S-VIDEO*2
		✕	○ (1080p)	✕	✕	※	COMPONENT	✕	✕	※ *3	*3	*3	*3
		✕	○ (480p ~ 720p)	✕	✕	※ COMPONENT*1	COMPONENT*1	✕	✕	※ COMPONENT*2	COMPONENT*2	✕	✕
		✕	○ (480i/576i)	✕	✕	※ COMPONENT*1	COMPONENT*1	COMPONENT*1	COMPONENT*1	※ COMPONENT*2	COMPONENT*2	COMPONENT*2	COMPONENT*2
		✕	○ (1080p)	✕	○	※ VIDEO*1	COMPONENT	VIDEO *1*4	VIDEO *1*4	※ VIDEO*2	VIDEO*2	VIDEO*2	VIDEO*2
		✕	○ (480p ~ 720p)	✕	○	※ COMPONENT*1	COMPONENT*1	✕	VIDEO	※ COMPONENT*2	COMPONENT*2	✕	VIDEO
		✕	○ (480i/576i)	✕	○	※ COMPONENT*1	COMPONENT*1	COMPONENT*1	COMPONENT*1	※ COMPONENT*2	COMPONENT*2	COMPONENT*2	COMPONENT*2
		✕	○ (1080p)	○	✕	※ S-VIDEO*1	COMPONENT	S-VIDEO*1	S-VIDEO*1	※ S-VIDEO*2	S-VIDEO*2	S-VIDEO*2	S-VIDEO*2
		✕	○ (480p ~ 720p)	○	✕	※ COMPONENT*1	COMPONENT*1	S-VIDEO	S-VIDEO	※ COMPONENT*2	COMPONENT*2	S-VIDEO	S-VIDEO
		✕	○ (480i/576i)	○	✕	※ COMPONENT*1	COMPONENT*1	COMPONENT*1	COMPONENT*1	※ COMPONENT*2	COMPONENT*2	COMPONENT*2	COMPONENT*2
		✕	○ (1080p)	○	○	※ S-VIDEO*1	COMPONENT	S-VIDEO*1	S-VIDEO*1	※ S-VIDEO*2	S-VIDEO*2	S-VIDEO*2	S-VIDEO*2
		✕	○ (480p ~ 720p)	○	○	※ COMPONENT*1	COMPONENT*1	S-VIDEO	S-VIDEO	※ COMPONENT*2	COMPONENT*2	S-VIDEO	S-VIDEO
		✕	○ (480i/576i)	○	○	※ COMPONENT*1	COMPONENT*1	COMPONENT*1	COMPONENT*1	※ COMPONENT*2	COMPONENT*2	COMPONENT*2	COMPONENT*2
	With HDMI monitor	○	✕	✕	✕	HDMI	✕	✕	✕	HDMI*2	✕	✕	✕
		○	✕	✕	○	HDMI	VIDEO*1	VIDEO *1*4	VIDEO *1*4	HDMI*2	VIDEO	VIDEO	VIDEO
		○	✕	○	✕	HDMI	S-VIDEO*1	S-VIDEO*1	S-VIDEO*1	HDMI*2	S-VIDEO	S-VIDEO	S-VIDEO
		○	✕	○	○	HDMI	S-VIDEO*1	S-VIDEO*1	S-VIDEO*1	HDMI*2	S-VIDEO	S-VIDEO	S-VIDEO
		○	○ (1080p)	✕	✕	HDMI	COMPONENT	✕	✕	HDMI*2	COMPONENT	✕	✕
		○	○ (480p ~ 720p)	✕	✕	HDMI	COMPONENT*1	✕	✕	HDMI*2	COMPONENT	✕	✕
		○	○ (480i/576i)	✕	✕	HDMI	COMPONENT*1	COMPONENT*1	COMPONENT*1	HDMI*2	COMPONENT	COMPONENT	COMPONENT
		○	○ (1080p)	✕	○	HDMI	COMPONENT	VIDEO *1*4	VIDEO *1*4	HDMI*2	COMPONENT	VIDEO	VIDEO
		○	○ (480p ~ 720p)	✕	○	HDMI	COMPONENT*1	✕	VIDEO	HDMI*2	COMPONENT	✕	VIDEO
		○	○ (480i/576i)	✕	○	HDMI	COMPONENT*1	COMPONENT*1	COMPONENT*1	HDMI*2	COMPONENT	COMPONENT	COMPONENT
		○	○ (1080p)	○	✕	HDMI	COMPONENT	S-VIDEO*1	S-VIDEO*1	HDMI*2	COMPONENT	S-VIDEO	S-VIDEO
		○	○ (480p ~ 720p)	○	✕	HDMI	COMPONENT*1	S-VIDEO	S-VIDEO	HDMI*2	COMPONENT	S-VIDEO	S-VIDEO
		○	○ (480i/576i)	○	✕	HDMI	COMPONENT*1	COMPONENT*1	COMPONENT*1	HDMI*2	COMPONENT	COMPONENT	COMPONENT
		○	○ (1080p)	○	○	HDMI	COMPONENT	S-VIDEO*1	S-VIDEO*1	HDMI*2	COMPONENT	S-VIDEO	S-VIDEO
		○	○ (480p ~ 720p)	○	○	HDMI	COMPONENT*1	S-VIDEO	S-VIDEO	HDMI*2	COMPONENT	S-VIDEO	S-VIDEO
		○	○ (480i/576i)	○	○	HDMI	COMPONENT*1	COMPONENT*1	COMPONENT*1	HDMI*2	COMPONENT	COMPONENT	COMPONENT
	Without HDMI monitor or with HDMI monitor off	○	✕	✕	✕	✕				✕	*3	*3	*3
		○	✕	✕	○	✕	VIDEO*1	VIDEO*1 *4	VIDEO*1 *4	✕	VIDEO*2	VIDEO*2	VIDEO*2
		○	✕	○	✕	✕	S-VIDEO*1	S-VIDEO*1	S-VIDEO*1	✕	S-VIDEO*2	S-VIDEO*2	S-VIDEO*2
		○	✕	○	○	✕	S-VIDEO*1	S-VIDEO*1	S-VIDEO*1	✕	S-VIDEO*2	S-VIDEO*2	S-VIDEO*2
		○	○ (1080p)	✕	✕	✕	COMPONENT	✕	✕	✕	*3	*3	*3
		○	○ (480p ~ 720p)	✕	✕	✕	COMPONENT*1	✕	✕	✕	COMPONENT*2	✕	✕
		○	○ (480i/576i)	✕	✕	✕	COMPONENT*1	COMPONENT*1	COMPONENT*1	✕	COMPONENT*2	COMPONENT*2	COMPONENT*2
		○	○ (1080p)	✕	○	✕	COMPONENT	VIDEO*1 *4	VIDEO *1*4	✕	VIDEO*2	VIDEO*2	VIDEO*2
		○	○ (480p ~ 720p)	✕	○	✕	COMPONENT*1	✕	VIDEO	✕	COMPONENT*2	✕	VIDEO
		○	○ (480i/576i)	✕	○	✕	COMPONENT*1	COMPONENT*1	COMPONENT*1	✕	COMPONENT*2	COMPONENT*2	COMPONENT*2
		○	○ (1080p)	○	✕	✕	COMPONENT	S-VIDEO*1	S-VIDEO*1	✕	S-VIDEO*2	S-VIDEO*2	S-VIDEO*2
		○	○ (480p ~ 720p)	○	✕	✕	COMPONENT*1	S-VIDEO	S-VIDEO	✕	COMPONENT*2	S-VIDEO	S-VIDEO
		○	○ (480i/576i)	○	✕	✕	COMPONENT*1	COMPONENT*1	COMPONENT*1	✕	COMPONENT*2	COMPONENT*2	COMPONENT*2
		○	○ (1080p)	○	○	✕	COMPONENT	S-VIDEO*1	S-VIDEO*1	✕	S-VIDEO*2	S-VIDEO*2	S-VIDEO*2
		○	○ (480p ~ 720p)	○	○	✕	COMPONENT*1	S-VIDEO	S-VIDEO	✕	COMPONENT*2	S-VIDEO	S-VIDEO
		○	○ (480i/576i)	○	○	✕	COMPONENT*1	COMPONENT*1	COMPONENT*1	✕	COMPONENT*2	COMPONENT*2	COMPONENT*2

○ : Signal present
✕ : No signal
480p ~ 720p : 480p / 576p / 1080i / 720p

✕ : No output
*1 : The "Picture Adjust" setting can be made.
*2 : Superimposed over video signal
*3 : Only displayed when the **MENU** button is pressed
*4 : If the input signal is in SECAM format, it is converted to PAL for output

※ : Output according to "Resolution" setting (i/p Scaler : When "A to H" is set) (☞ page 30).
▓ : Wallpaper or set background color displayed
▓ : Output according to "Resolution" setting (i/p Scaler : When "H to H" is set) (☞ page 30).
▓ : GUI menu not displayed

✎

• The main zone video conversion function is compatible with the following formats: NTSC, PAL, SECAM, NTSC4,43, PAL -N, PAL -M and PAL -60.
• When SECAM signals of video input are up-converted, the signals are output in PAL format from the S-Video connector.
• If the input signal is a component 1080p signal, up-converting to HDMI is not possible.
• The GUI menu display cannot be superimposed when xvYCC signals and component 1080p signal, computer's resolution (e.g. VGA) are input.

Video Convert	SIGNAL IN				MONITOR OUT (Normally)				MONITOR OUT (when GUI menu displayed)			
	HDMI	COMPONENT	S-VIDEO	VIDEO	HDMI	COMPONENT	S-VIDEO	VIDEO	HDMI	COMPONENT	S-VIDEO	VIDEO
OFF	×	×	×	×	×	×	×	×	○	○	○	○
	×	×	×	○	×	×	×	○ (VIDEO)	○	○	○	○
	×	×	○	×	×	×	○ (S-VIDEO)	×	○	○	○	○
	×	×	○	○	×	×	○ (S-VIDEO)	○ (VIDEO)	○	○	○	○
	×	○	×	×	×	○ (COMPONENT)	×	×	○	○	○	○
	×	○	×	○	×	○ (COMPONENT)	×	○ (VIDEO)	○	○	○	○
	×	○	○	×	×	○ (COMPONENT)	○ (S-VIDEO)	×	○	○	○	○
	×	○	○	○	×	○ (COMPONENT)	○ (S-VIDEO)	○ (VIDEO)	○	○	○	○
	○	×	×	×	○ (HDMI)	×	×	×	○ (HDMI)*2	×	×	×
	○	×	×	○	○ (HDMI)	×	×	○ (VIDEO)	○ (HDMI)*2	×	×	×
	○	×	○	×	○ (HDMI)	×	○ (S-VIDEO)	×	○ (HDMI)*2	×	×	×
	○	×	○	○	○ (HDMI)	×	○ (S-VIDEO)	○ (VIDEO)	○ (HDMI)*2	×	×	×
	○	○	×	×	○ (HDMI)	○ (COMPONENT)	×	×	○ (HDMI)*2	×	×	×
	○	○	×	○	○ (HDMI)	○ (COMPONENT)	×	○ (VIDEO)	○ (HDMI)*2	×	×	×
	○	○	○	×	○ (HDMI)	○ (COMPONENT)	○ (S-VIDEO)	×	○ (HDMI)*2	×	×	×
	○	○	○	○	○ (HDMI)	○ (COMPONENT)	○ (S-VIDEO)	○ (VIDEO)	○ (HDMI)*2	×	×	×

○ : Signal present
× : No signal

○ : Output present
× : No output
*2 : Superimposed over video signal

To display the GUI menu on an HDMI monitor, output with a resolution of 480p/576p.

❏ ZONE2

Input		MONITOR OUT
S-VIDEO	VIDEO	VIDEO
×	×	×
×	○	○ (VIDEO)
○	×	○ (S-VIDEO)
○	○	○ (S-VIDEO)

○ : Signal present
× : No signal

○ : Output present
× : No output

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
Power does not turn on, or turns off directly after it was turned on.	• Connection of the power cord is faulty.	• Check that the power plugs are securely inserted into the AVR-3808's AC inlet and the wall power outlet.	22
No sound is produced from speakers.	• Connection with the input devices or connection of the speaker cables is faulty.	• Check the connections.	9
	• Device you want to play and set input source do not match.	• Select an appropriate input source.	37
	• Master volume is turned too low.	• Adjust the master volume to an appropriate level.	47
	• Mute mode is set.	• Cancel the mute mode.	47
	• Headphones are connected.	• Disconnect the headphones.	47
	• No digital signals are being input.	• Select an input source for which the digital input setting has been made.	39
	• The connectors to which the digital inputs are assigned and the settable input modes do not match.	• Set the input mode.	39
Display is off.	• The "Dimmer" setting is set to "OFF".	• Set to something other than "OFF".	35
	• The PURE DIRECT mode is set.	• Set a surround mode other than the PURE DIRECT mode.	40, 41
"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.	–

Symptom	Cause	Countermeasure	Page
Power turns off suddenly and power indicator flashes red.	• Protection circuit activated due to rise of internal temperature.	• Turn off the power, wait for the set to fully cool down, then turn the power back on.	10
		• Place the set in a well-ventilated place.	10
	• Core wires of two speakers are touching each other or a core wire is sticking out of the terminal and touching the set's rear panel, activating the protection circuit.	• First unplug the power cord, then twist the core wires tightly or terminate the speaker cables, then reconnect.	10
	• Speakers with an impedance other than specified are being used.	• Use speakers with the specified impedance.	10
	• Set is damaged.	• Turn off the power and contact a DENON service center.	–

〔**Remote Control Unit**〕

Symptom	Cause	Countermeasure	Page
Set does not work properly when remote control unit operated.	• Batteries are worn.	• Replace with new batteries.	3
	• You are operating outside of the specified range.	• Operate within the specified range.	3
	• Obstacle between main unit and remote control unit.	• Remove the obstacle.	3
	• The batteries are not inserted in the proper direction, as indicated by the polarity marks in the battery compartment.	• Insert the batteries in the proper direction, following the polarity marks in the battery compartment.	3
	• The set's remote control sensor is exposed to strong light (direct sunlight, inverter type fluorescent bulb light, etc.).	• Move the set to a place in which the remote control sensor will not be exposed to strong light.	3
	• The remote ID of the main unit and remote control unit do not match.	• Set the same remote IDs for the main unit and remote control unit.	35, 63

【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 mode.	• The mode is set to something other than "STANDARD".	41
No sound is produced from surround speakers.	• The surround mode is set to "STEREO", "DIRECT" or "PURE DIRECT".	• Set to a surround playback mode.	40, 41
No sound is produced from surround back speaker.	• The surround back speaker's power amplifier is assigned to a different channel.	• Check the setting and change it as necessary.	28
	• Surround back speaker setting is set to "None".	• Set to something other than "None".	28
	• Surround mode not set to a mode for 6.1- or 7.1-channel playback.	• Select a surround playback mode.	40, 41
No sound is produced from subwoofer.	• Subwoofer's power not turned on.	• Turn on the subwoofer's power.	–
	• The "Subwoofer" setting at "Speaker configuration" is set to "No".	• Set to "Yes".	28
	• The subwoofer is not properly connected.	• Check the connections.	9
	• The subwoofer's volume is turned off.	• Adjust the subwoofer's volume to an appropriate level.	59
No test tones are produced when main remote control unit's **TEST TONE** button is pressed.	• Surround mode not set to "STANDARD".	• Set to the STANDARD mode.	40
DTS sound is not output.	• DVD player's audio output setting is not set to bitstream.	• Set the DVD player. For details, refer to the DVD player's operating instructions.	–
	• DVD player is not compatible with DTS sound playback.	• Use a DTS-compatible player.	–
	• The AVR-3808's "Decode Mode" setting is set to "PCM".	• Set to the "Auto" or DTS mode.	38
HDMI audio signals are not output from speakers.	• The "Manual Setup" – "HDMI Setup" – "Audio" setting is set to "TV".	• Set to "Amp".	30

Symptom	Cause	Countermeasure	Page
No sound is output from the monitor connected with HDMI connections.	• The "Manual Setup" – "HDMI Setup" – "Audio" setting is set to "Amp".	• Set to "TV".	30

【Video】

Symptom	Cause	Countermeasure	Page
The on-screen display does not appear.	• The format of the GUI and TV (PAL or NTSC) do not match.	• Match the format of the GUI and TV.	34
No picture appears.	• The connections between the AVR-3808 and monitor are faulty.	• Check the connections.	11 ~ 22
	• The monitor's input setting is wrong.	• Set properly.	–
	• PURE DIRECT mode is set.	• Cancel the PURE DIRECT mode.	40, 41
	• The player is connected using the component input connectors, the monitor is connected using the video (yellow) or S-Video output connectors.	• High definition (1080i/720p) and progressive (480p/576p) video signals are not down-converted. Set the player to interlace (480i/576i) signals.	–
No picture appears with HDMI connections.	• The connections to the HDMI connectors are faulty.	• Check the connections.	11
	• HDMI input setting is improper.	• Check the HDMI input setting.	39
	• The monitor is not compatible with copyright protection (HDCP).	• Connect a monitor that is compatible with copyright protection (HDCP).	11
	• The HDMI format of the player and monitor do not match.	• Match the HDMI format of the player and monitor.	11
Picture cannot be recorded.	• Input source does not match recorder's video connection connector (video or S-Video).	• The video conversion function does not work for the REC OUT connectors. Match the input source and recorder connections.	15
DVDs cannot be copied on a VCR.	–	• This is not a malfunction. Most movie software includes copy prevention signals and cannot be copied.	–

【iPod】

Symptom	Cause	Countermeasure	Page
iPod cannot be played.	• The input source assigned to "iPod dock" is not selected.	• Switch to the input source assigned at "iPod dock".	39
	• Cable is not properly connected.	• Reconnect.	13
	• Control Dock for iPod's AC adapter is not connected to power outlet.	• Plug the Control Dock for iPod's AC adapter into a power outlet.	–

【NET/USB】

Symptom	Cause	Countermeasure	Page
When a USB memory device is connected, "USB" is not displayed on the GUI menu.	• The set cannot recognize a USB memory device.	• Check the connection.	18
	• A USB memory device not conforming to mass storage class or MTP standards is connected.	• Connect a USB memory device conforming to mass storage class or MTP standards.	–
	• The set port and the connected port do not match.	• Connect to the port set at "USB Select".	40
	• A USB memory device that the set cannot recognize is connected.	• This is not a malfunction. DENON does not guarantee that all USB memory devices will operate or receive power.	–
	• USB memory device is connected via USB hub.	• Connect the USB memory device directly to the USB port.	–
Files on a USB memory device cannot be played.	• USB memory device is in format other than FAT16 or FAT32.	• Set the format to FAT16 or FAT32. For details, refer to the USB memory device's operating instructions.	–
	• USB memory device is divided into multiple partitions.	• When divided into multiple partitions, only files stored in the top partition can be played.	–
	• Files are stored in a non-compatible format.	• Record the files in a compatible format.	53
	• You are attempting to play a file that is copyright protected.	• Files that are copyright protected cannot be played on this set.	53
The file names are not displayed properly ("...", etc.).	• Characters that cannot be displayed are used.	• This is not a malfunction. On this set, characters that cannot be displayed are replaced with a " . (period)".	–

Symptom	Cause	Countermeasure	Page
Internet radio cannot be played.	• Ethernet cable is not properly connected or network is disconnected.	• Check the connection status.	20
	• Program is being broadcast in non-compatible format.	• Only Internet radio programs in MP3 and WMA can be played on this set.	53
	• The computer's or router's firewall is activated.	• Check the computer's or router's firewall settings.	–
	• Radio station is not currently broadcasting.	• Choose a radio station that is currently broadcasting.	54
	• IP address is wrong.	• Check the set's IP address.	33
Files stored on a computer cannot be played.	• Files are stored in a non-compatible format.	• Record in a compatible format.	53
	• You are attempting to play a file that is copyright protected.	• Files that are copyright protected cannot be played on this set.	53
	• Set and computer are connected by USB cable.	• The set's USB port cannot be used for connection to a computer.	–
Server is not found, or it is not possible to connect to the server.	• The computer's or router's firewall is activated.	• Check the computer's or router's firewall settings.	–
	• Computer's power is not turned on.	• Turn on the power.	–
	• Server is not running.	• Launch the server.	–
	• Set's IP address is wrong.	• Check the set's IP address.	32, 33
Cannot connect to preset or favorite radio stations.	• Radio station is not currently broadcasting.	• Wait a while before trying again.	–
	• Radio station is not currently in service.	• It is not possible to connect to radio stations that are no longer in service.	–
For some radio stations, "Server Full" or "Connection Down" is displayed and station cannot be connected to.	• Station is congested or not currently broadcasting.	• Wait a while before trying again.	–
Sound is broken during playback.	• Network's signal transfer speed is slow or communications lines or radio station is congested.	• This is not a malfunction. When playing broadcast data with a high bit rate, the sound may be broken, depending on the communications conditions.	–
Sound quality is poor or played sound is noisy.	• File being played has a low bit rate.	• This is not a malfunction.	–

Specifications

❏ Audio section

• **Power amplifier**

Rated output: Front:

130 W + 130 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.)
160 W + 160 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
Center:
130 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.)
160 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
Surround (A + B):
130 W + 130 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.)
160 W + 160 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)
Surround back:
130 W + 130 W (8 Ω/ohms, 20 Hz ~ 20 kHz with 0.05 % T.H.D.)
160 W + 160 W (6 Ω/ohms, 1 kHz with 0.7 % T.H.D.)

Dynamic power: 140 W x 2ch (8 Ω/ohms)
210 W x 2ch (4 Ω/ohms)

Output connectors: Front, Center, Surround back 6 ~ 16 Ω/ohms
Surround: A or B 6 ~ 16 Ω/ohms
A + B 8 ~ 16 Ω/ohms

• **Analog**

Input sensitivity / Input impedance: 200 mV / 47 kΩ/kohms
Frequency response: 10 Hz ~ 100 kHz — +1, –3 dB (DIRECT mode)
S/N: 102 dB (DIRECT mode)
Distortion: 0.005 % (20 Hz ~ 20 kHz) (DIRECT mode)
Rated output: 1.2 V

• **Digital**

D/A output: Rated output — 2 V (at 0 dB playback)
Total harmonic distortion — 0.008 % (1 kHz, at 0 dB)
S/N ratio — 102 dB
Dynamic range — 96 dB
Digital input: Format — Digital audio interface

• **Phono equalizer (PHONO input − REC OUT)**

Input sensitivity: 2.5 mV
RIAA deviation: ±1 dB (20 Hz to 20 kHz)
S/N: 74 dB (A weighting, with 5 mV input)
Rated output: 150 mV
Distortion factor: 0.03 % (1 kHz, 3 V)

❏ Video section

• **Standard video connectors**

Input / output level and impedance: 1 Vp-p, 75 Ω/ohms
Frequency response: 5 Hz ~ 10 MHz — +0, –3 dB (when video convert set to "OFF")

• **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 — +0, –3 dB (when video convert set to "OFF")

• **Color component video connector**

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 ~ 100 MHz — +0, –3 dB (when video convert set to "OFF")

❏ Tuner section

	[FM]	[AM]
	(note: μV at 75 Ω/ohms, 0 dBf = 1 x 10^{-15} W)	
Receiving Range:	87.5 MHz ~ 108.0 MHz	522 kHz ~ 1611 kHz
Usable Sensitivity:	1.0 μV (11.2 dBf)	18 μV
50 dB Quieting Sensitivity:	MONO 1.6 μV (15.3 dBf)	
	STEREO 23 μV (38.5 dBf)	
S/N (IHF-A):	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: 550 W
0.3 W (Standby)
Maximum external dimensions: 434 (W) x 171 (H) x 420 (D) mm
Mass: 17.8 kg

❏ Main remote control unit (RC-1068)

Batteries: LR6/AA Type (two batteries)
Maximum external dimensions: 63 (W) x 238 (H) x 31 (D) mm
Mass: 190 g (including batteries)

❏ Sub remote control unit (RC-1070)

Batteries: R03/AAA Type (two batteries)
Maximum external dimensions: 49 (W) x 220 (H) x 24.5 (D) mm
Mass: 114 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 préréglés / Lista dei codici pre-regolati / Lista de códigos pre-ajustados / Lijst van vooringestelde codes / Förteckning över förinställda koder

Denon Amp

D	Denon	81001, 82001, 83001, 84001

Denon Tuner

D	Denon (Analog)	52863, 52795, 52800, 52805

Denon Digital Tuner

D	Denon (NET/USB)	62865, 62837, 62838, 62839

Denon iPod

D	Denon	72815, 72816, 72817, 72818

Cable

A	A-Mark	00008, 00144
	ABC	00237, 00003, 00008
	Accuphase	00003
	Acorn	00237
	Action	00237
	Active	00237
	ADB	01230
	Aichi Denshi	01512
	Americast	00899
	Amstrad	01222
	Archer	00237
	Auna	01230
	Austar	00276
B	BCC	00276
	Bell South	00899
	Bestlink	00303
	Birmingham Cable Communications	00276
	British Telecom	00003
C	Cable & Wireless	01068
	Century	00008
	Coship	01462
D	Daehan	00778
	Daeryung	01877, 00877, 00477, 00008
	Digeo	01187
	Director	00476
	DX Antenna	01500
E	Emerson	00303
	Encon	00008
F	Fosgate	00276
	Foxtel	01222
	France Telecom	00817
	Freebox	01482
	Fujitsu	01497
G	Galaxi	00008
	GE	00237, 00144
	Gehua	00476
	General Instrument	00476, 00810, 00276, 00003
	Gibralter	00003
	GNI	01466
	GoldStar	00144
H	Hitachi	00003, 00008
	Hongtian Jiangsu	01462
	Hwalin	00303
I	Insight	00476, 00810
J	Jerrold	00476, 00810, 00276, 00003
	Jiuzhou	01445
K	KNC	00008
L	LG	00144
M	Macab	00817
	Madritel	01230
	Maspro	01510
	Matav	01082
	Memorex	00000
	Mitsubishi	00003
	Motorola	01376, 00476, 00810, 00276, 01187
	MS	00303
N	NEC	01496
	Noos	00817
	Nova Vision	00008
	Novaplex	00008
	NTL	00276, 00003, 01060, 01068
O	Oak	00303
	Ono	01068
	Optus	00276, 01060
P	Pace	01877, 00877, 00237, 00008, 01060, 01068, 01577
	Panasonic	00000, 00008, 00144, 01488
	Paragon	00000, 00008, 00525
	Penney	00000
	Philips	01305, 00317, 00817
	Pioneer	01877, 00877, 00144, 00533, 01500
	Pulsar	00000
	PVP Stereo Visual Matrix	00003
Q	Quasar	00000
R	RadioShack	00303
	Regal	00276
	Runco	00000
S	Sagem	00817
	Salora	00000
	Samsung	00003, 00000, 00144, 00778, 00840, 01060, 01666
	Scientific Atlanta	01877, 00877, 00477, 00237, 00003, 00000, 00008, 01510
	Skyworth	01464
	Sony	01006, 01460
	Sprucer	00144
	Starcom	00003
	StarHub	00276
	Sumitomo	01500, 01504
	Supercable	00276
T	Taihan	00778
	TCL	01445
	Telewest	01068
	Time Warner cable	01877
	TongKook	00840
	Torx	00003
	Toshiba	00000, 01509
	Trans PX	00276, 00303
	TS	00003, 00303
U	United Cable	00276, 00003
	US Electronics	00276, 00003, 00008
V	Videoway	00000
	Visiopass	00817
Z	Zenith	00000, 00525, 00899

Cable/PVR Combination ※1

A	Americast	00899
D	Digeo	01187
F	Freebox	01482
G	General Instrument	00810
J	Jerrold	00810
M	Motorola	01376, 00810, 01187
P	Pace	01877, 00237
	Pioneer	01877, 00877
S	Scientific Atlanta	01877, 00877
	Sony	01006
	Supercable	00276
T	Time Warner cable	01877
Z	Zenith	00899

CD Player

A	Acoustic Research	40420
	Advantage	40032
	Aiwa	40157
	Arcam	40157
	Audio Research	40157
	Audiolab	40157
	Audiomeca	40157
	Audioton	40157
	AVI	40157
B	Balanced Audio Technology	40157
	Burmester	40420
	Bush	40388
C	Cairn	40157
	California Audio Labs	40029, 40303
	Cambridge	40157
	Cambridge Audio	40157
	Cambridge Soundworks	40157
	Carver	40157, 40179
	CDC	40420
	CEC	40420
	Copland	40393
	Curtis Mathes	40032
	Cyrus	40157
D	Denon	40873, 40003, 40766, [42867] ＊, 42868
	DKK	40000
	DMX Electronics	40157
	Dual	40003
	Dynaco	40157
	Dynamic Bass	40179
F	Fisher	40000, 40179
G	Garrard	40393, 40420
	Genexxa	40000, 40032, 40037, 40179
	Goldmund	40157
	Grundig	40157
H	Hafler	40173
	Harman/Kardon	40100, 40157, 40173
	Hitachi	40032
I	Inkel	40157
	Integra	40101
J	Jerrold	40003
	JVC	40032, 40072
K	Kenwood	40681, 40000, 40029, 40157, 40028, 40037, 40036, 40190
	KLH	41318
	Krell	40157
L	Linn	40157
	Loewe	40157
	Luxman	40393
	LXI	40179
M	Magnavox	40157
	Marantz	40029, 40157
	Matsui	40157
	MCS	40029
	Memorex	40000, 40032, 40179, 40420, 40468
	Meridian	40157
	Micromega	40157
	Miro	40000
	Mission	40157
	Modulaire	40000, 40032, 40087, 40179, 40420, 40468
	MTC	40420
	Musical Fidelity	40393
	Myryad	40157
N	NAD	40000, 40721
	Naim	40157
	NSM	40157
O	Onkyo	40868, 40101
	Optimus	40000, 40032, 40037, 40087, 40179, 40393, 40420, 40468
	Orion	40393
P	Panasonic	40029, 40303, 40388, 40752
	Parasound	40420
	Penney	40029
	Philips	40157
	Pioneer	40032, 40101, 40468
	Polk Audio	40157
	Proceed	40420
	Proton	40157
Q	QED	40157
	Quad	40157
	Quasar	40029
R	Radiola	40157
	RadioShack	40000, 40032, 40179, 40420, 40468
	RCA	40032, 40053, 40179, 40420, 40468
	Realistic	40000, 40032, 40087, 40179, 40420, 40468
	Restek	40157
	Revox	40157
	Roksan	40420
	Rotel	40157, 40420
	Royal	40420
S	SAE	40157
	Saisho	40000
	Sansui	40000, 40157
	Sanyo	40000, 40087, 40179
	SAST	40157
	Sears	40179
	Sharp	40037
	Siemens	40157
	Silsonic	40036
	Simaudio	40157
	Sonic Frontiers	40157
	Sony	40490, 40000, 40100, 41364, 40185
	Sugden	40157
	Sylvania	40157
T	TAG McLaren	40157
	Tandy	40032

	Tascam	40393, 40420
	Teac	40490, 40393, 40420
	Technics	40029, 40303
	Techwood	40303
	Thomson	40053
	Thorens	40157
	Thule Audio	40157
	Tokai	40420
U	Universum	40157, 40053
V	Victor	40072
W	Wadia	40393
	Wards	40000, 40032, 40157, 40053, 40087, 40179
Y	Yamaha	40490, 40868, 40032, 40036
	Yorx	40000

CD Recorder

D	Denon	40766, 42868
J	JVC	40072
R	RCA	40053, 40420
S	Sony	40000, 40100, 41364
T	Teac	40420
	Thomson	40053

Tape Deck

A	Aiwa	20029, 20197, 20200, 21315
	Akai	20283, 20439
	Arcam	20076
	Audiolab	20029
C	Carver	20029
D	Denon	20076, 20371, 21311, [22471]*
F	Fisher	20074
G	Garrard	20308, 20309, 20375, 20439
	Genexxa	20439
	GoldStar	20375
	Grundig	20029, 20375
H	Harman/Kardon	20182, 20029, 21314
I	Inkel	20070, 20071, 20337
J	JVC	20244, 20273, 20274, 20303, 20304, 20310, 21309
K	Kenwood	20070, 20071, 20092, 20233, 20234, 21364
L	LG	20375
	Luxman	20308, 20309
M	Magnavox	20029
	Marantz	20029, 20009
	Memorex	20099
	Mitsubishi	20283, 20439
	Myryad	20029
O	Onkyo	20135, 20136, 20282
	Optimus	20027, 20220, 20337, 20439
	Orion	20308, 20309
P	Palladium	20375
	Panasonic	20229
	Philips	20029, 20229
	Phonotrend	20337
	Pioneer	20027, 20220, 20099, 20109, 21306, 21312
	Polk Audio	20029
R	Radiola	20029
	RCA	20027, 20220
	Revox	20029
S	Sansui	20029, 20009
	Sanyo	20074
	Sharp	20231, 20371
	Sherwood	20337
	Sonic	20375
	Sony	20243, 20170, 20291, 20234, 21313
T	TaeKwang	20439
	Tandberg	20109
	Teac	20280, 20283, 20289, 20308, 20309
	Technics	20229
	Technovox	20229
	Thorens	20029
U	Universum	20375, 20439
V	Victor	20244, 20273, 20274
W	Wards	20027, 20029
	Wharfedale	20439
Y	Yamaha	20097, 20094

HDTV Tuner ※1

A	ABS	01272
	Accurian	01653
	Alienware	01272
C	CyberPower	01272
D	D-Link	01554
	Dgtec	01363
E	Epson	01563
G	Gateway	01272
H	Hewlett Packard	01272, 01267
	Howard Computers	01272
	HP	01272, 01267
	Hush	01272
I	iBUYPOWER	01272
L	LG	01415
	Linksys	01272, 01365
M	Media Center PC	01272
	Microsoft	01272, 01805
	Mind	01272
	Motorola	01363
N	Niveus Media	01272
	Northgate	01272
P	Packard Bell	01272
	Panasonic	01120
	Pioneer	01010
R	Ricavision	01272
S	Samsung	01190, 01490
	Sensory Science	01126
	Sharp	01010
	SMC	01456
	Sony	01272, 01324, 01364
	Stack 9	01272
	Sylvania	01563
	Systemax	01272
T	Toshiba	01272
	Touch	01272
V	Viewsonic	01272, 01329
	Vizio	01126
	Voodoo	01272
X	Xbox	01805
Z	ZT Group	01272

Satellite Receiver

A	@sat	01300
	@Sky	01334
	A-Mark	00345
	ABsat	00123, 00713
	ADB	00642, 01259, 01367, 01418, 01473, 01491
	AGS	00710
	Aiwa	01514
	Akai	00200
	Alba	00455, 00713, 01284, 01659, 01811
	Allsat	00200, 01043
	Alltech	00713
	Allvision	01232, 01334, 01412
	AlphaStar	00772
	Amitronica	00713
	Amstrad	00345, 00713, 00795, 00847, 00863, 00882, 01113, 01175, 01693, 01801
	Anglo	00713
	Ankaro	00713
	AntSat	01083
	Apollo	00455
	Arcon	01043, 01075
	Armstrong	00200
	Arnion	01300
	Asat	00200
	ASCI	01334
	ASLF	00713
	AssCom	00853
	Astacom	00710
	Aston	00142
	Astra	00713
	Astratec	01743
	Astro	00173, 00658, 01099, 01100, 01113
	Atlantic Telephone	01333
	Atsat	01300
	AtSky	01334
	Audioline	01672
	Aurora	00642, 00879, 01333, 01433
	Austar	00497, 00642, 00863, 00879, 01176, 01259
	Axiel	00710
	Axil	01457, 01659
	Axis	01111
B	B@ytronic	01412
	Beko	00455
	Bell ExpressVu	00775
	Big Sat	01457
	Black Diamond	01284
	Blaupunkt	00173
	Blue Sky	00713
	Boca	00713, 01232, 01366
	Boston	00710, 01251
	Brainwave	00658, 01672
	British Sky Broadcasting	00847, 01175, 01662, 01847
	Broco	00713
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	BT	00710, 01296
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	Bush	01284, 01645, 01672, 01743, 01811
C	Canal	00853
	Canal Digital	00853, 01622
	Canal Satellite	00853, 01339, 01853
	Canal+	00853
	Centrex	01457
	CGV	01413, 01567
	Chaparral	00216
	Cherokee	00123, 00710
	Chess	00713, 01085, 01334, 01626
	Chili	01718
	CityCom	00299, 00394, 00818, 01075, 01176, 01232
	Classic	01672
	Clatronic	01413
	CNS	01367
	Comag	01232, 01366, 01412, 01413
	Condor	01700
	Conia	01695
	Contec	00394
	Continental Edison	01695
	Coship	01457
	Crossdigital	01109
	Crown	01284
	Cryptovision	00455, 00795
	Cyfra+	01076
	Cyrus	00200
D	D-box	00723, 00873, 01114
	Daewoo	00713, 01111, 01296, 01743
	Delfa	00863
	Deltasat	01075
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	Digiality	01685
	Digifusion	01645, 01743
	DigiLogic	01284
	DigiQuest	00863, 01300, 01457, 01473
	DigiSat	01232
	Digisky	01457
	DigitAll World	01227
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	Discovery	00710
	Dish Network System	01505, 01005, 00775, 01775
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	Gardiner	00818
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	Gecco	01412
	General Instrument	00869
	General Satellite	01176
	GF Good Friends	01043
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	Globo	01251, 01334, 01412, 01429, 01626
	GOD Digital	00200
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	Gold Box	00853
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K	K-SAT	00713
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	Kaon	01300
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	Kathrein	00123, 00173, 00200, 00249, 00394, 00442, 00480, 00504, 00658, 00713, 00818, 01221, 01416, 01561, 01567
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	Lava	01631
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Firstline	10009, 10037, 10208, 10217, 10361, 10374, 10556, 10668, 10714, 10808, 11037, 11191, 11363, 11371
Fisher	10047, 10054, 10154, 10000, 10036, 10208, 10217, 10361, 10370
Flint	10037, 10218, 10264, 10455, 10610
Force	11149
Formenti	10037, 10163
Fortress	10093
Fraba	10037, 10370
Friac	10009, 10037, 10370, 10499, 10610
Frontech	10009, 10163, 10217, 10264
Fujimaro	10865, 11498
Fujitsu	10009, 10217, 10352, 10683, 10809, 10853
Fujitsu General	10009, 10217, 10683
Fujitsu Siemens	10808, 10809, 11163, 11298
Funai	10000, 10180, 10171, 10264, 10668, 11271, 11904
Furi	10145, 10264, 10817
Furichi	10860
Futronic	10264, 10860
Futuretech	10180
G Galaxi	10037
Galaxis	10037, 10370
Ganxin	10817
Gateway	11755, 11756
GBC	10009, 10163, 10218, 10374
GE	11447, 10047, 11454, 10000, 10051, 10451, 10093, 10180, 10060, 10178, 10030, 10092, 11922, 11917, 11347, 11147, 10625, 10560, 10335, 10035
GEC	10037, 10163, 10217, 10361
Geloso	10009, 10163, 10374
Gemini	10047
General	10109, 10287
General Technic	10009
Genesis	10009, 10037
Genexxa	10009, 10037, 10163, 10218
Gericom	10808, 10865, 10880, 11217, 11298
Gevalt	11371
Giant	10009, 10217
Gibralter	10017, 10000, 10030
Go Video	10060, 10886
Go Vision	11937
Goldfunk	10668
GoldStar	10047, 10054, 10154, 10178, 10030, 10715, 10714, 10606, 10455, 10361, 10217, 10163, 10109, 10073, 10037, 10036, 10009, 10001
Gooding	10487
Goodmans	10000, 11909, 11900, 11163, 11037, 10880, 10808, 10714, 10668, 10661, 10634, 10625, 10587, 10560, 10556, 10499, 10487, 10480, 10374, 10371, 10343, 10335, 10264, 10218, 10217, 10037, 10036, 10035, 10011, 10009
Gorenje	10370
GPM	10218
Gradiente	10053, 10037, 10170
Graetz	10163, 10361, 10371, 10487, 10714, 11163
Gran Prix	10648
Granada	10036, 10037, 10108, 10163, 10208, 10217, 10226, 10343, 10548, 10560
Grandin	10009, 10037, 10163, 10218, 10374, 10455, 10610, 10668, 10714, 10715, 10865, 10880, 11037, 11191
Gronic	10217
Grundig	10706, 10009, 10036, 10037, 10070, 10163, 10195, 10443, 10487, 10556, 10587, 10672, 10683, 11371
Grundy	10180, 10195
Grunkel	11163
Grunpy	10180
H H & B	10808
Haaz	10706
Haier	11034, 10037, 10508, 10587, 10698, 11017
Haihong	10009
Haiyan	10264, 10817
Halifax	10217, 10264
Hallmark	10236, 10180, 10178
Hampton	10217
Hanimex	10218
Hankook	10180, 10178, 10030
Hanseatic	10009, 10037, 10217, 10361, 10370, 10394, 10499, 10556, 10634, 10661, 10714, 10808
Hantarex	10009, 10037, 10865
Hantor	10037
Harley Davidson	10000, 10180, 10060, 10178, 10030, 11904
Harman/Kardon	10054
Harsper	10865
Harvard	10180
Harwa	10773, 11196, 11269
Harwood	10009, 10037, 10487
Hauppauge	10037
Havermy	10093
HCM	10009, 10037, 10217, 10218, 10264, 10418
Heathkit	10017
Helios	10865
Hello Kitty	10451
Hema	10009, 10217
Hewlett Packard	11494, 11502
Hifivox	10109
Highline	10037, 10264
Hikona	10218
Hikone	10218
Hinari	10009, 10036, 10037, 10163, 10208, 10218, 10264, 10352, 10443
Hisawa	10218, 10455, 10610, 10714
Hisense	10156, 10748, 10145, 10009, 10208, 10508, 10556, 10780, 10821, 10860, 11022, 11156, 11170, 11208, 11363
Hitachi	10047, 10054, 10017, 10000, 11256, 10156, 10051, 10150, 10178, 10030, 11145, 10145, 10092, 10744, 10877, 10634, 11137, 11149, 11156, 11170, 11225, 11576, 11904, 11960, 10578, 10548, 10508, 10499, 10481, 10480, 10343, 10217, 10163, 10109, 10108, 10037, 10036, 10035, 10009
Hitachi Fujian	10150, 10108, 10860
Hitec	10698
Hitsu	10009, 10218, 10455, 10610
Hoeher	10714, 10865, 11163, 11556
Home Electronics	10606
Hongmei	10093, 10009, 10264, 10817
Hongyan	10264, 10817
Hornyphon	10037
Hoshai	10218, 10455
HP	11494, 11502
Hua Tun	10009
Huafa	10145, 10009
Huanghaimei	10009
Huanghe	10009, 10817
Huanglong	10009
Huangshan	10009, 10264, 10817
Huanyu	10217, 10264, 10374, 10817
Huaqiang	10264
Huari	10145, 10264
Hugoson	11217
Huodateji	10051
Hygashi	10217
Hyper	10009, 10217
Hypersonic	10361
Hypson	10037, 10217, 10264, 10455, 10486, 10556, 10668, 10714, 10715, 11037
Hyundai	10849, 10860, 10865, 10876, 11556
I Iberia	10037
ICE	10037, 10217, 10218, 10264, 10371
ICeS	10218
Iiyama	10877, 11217
Ima	10236, 10180, 10178
Imperial	10037, 10074, 10370, 10418
Imperial Crown	10001, 10009, 10264, 10374, 10661
Indiana	10037
Infinity	10054
InFocus	11164
Ingelen	10163, 10487, 10610, 10714
Ingersol	10009
Inno Hit	10009, 10217, 10218, 11163
Innova	10037
Innowert	10865, 11298
Inotech	10773, 10820
Insignia	10171, 11517
Inteq	10017, 10145
Interbuy	10009, 10037, 10264
Interfunk	10037, 10109, 10163, 10200, 10327, 10361, 10512
Internal	10037, 11909
Intervision	10009, 10037, 10217, 10218, 10264, 10394, 10455, 10486, 10487
Irradio	10009, 10037, 10218, 10371
Isukai	10037, 10218, 10455
ITC	10217
ITS	10037, 10218, 10264, 10371
ITT	10163, 10208, 10346, 10361, 10480, 10548, 10610
ITT Nokia	10070, 10163, 10195, 10208, 10346, 10361, 10480, 10548, 10606, 10610
ITV	10037, 10264, 10374
IX	10877
J JBL	10054
JCB	10000
JDV	11982
Jean	10156, 10051, 10236, 10092, 10009, 10036
JEC	10035
Jensen	10761, 10815, 10817, 11933
Jiahua	10051
JiaLiCai	10009, 10264
JIL	10030
Jinfeng	10051, 10208, 10226, 10817
Jinque	10009, 10264, 10817
Jinta	10009, 10264
Jinxing	10054, 10156, 10145, 10009, 10037, 10264, 10556, 10698, 10817, 10821, 11011
JMB	10443, 10499, 10556, 10634
JNC	10876
Jocel	10712
Johnson	10455
Jubilee	10556
Juhua	10264, 10817
Jutan	10030

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JVC	10054, 10093, 10463, 10053, 10030, 10070, 10036, 10218, 10371, 10418, 10508, 10606, 10650, 10653, 10683, 10731, 11253, 11923

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Kaige	10009, 10264, 10817
Kaisui	10009, 10037, 10217, 10218, 10455
Kambrook	10217
Kamp	10017, 10180, 10217
Kangli	10001, 10009, 10264, 10374, 10661, 10817
Kangyi	10009, 10264
Kapsch	10163, 10361
Karcher	10264, 10370, 10606, 10610, 10714, 10778, 11556
Kathrein	10556
Kawa	10371
Kawasho	10030
KB Aristocrat	10163
KDS	11498
KEC	10180, 10060
Kendo	10037, 10362, 10370, 10610, 10648, 11037
Kennedy	10163
Kennex	10668, 11037
Kenwood	10180, 10030
Khind	10706
KIC	10217
Kiota	10001, 10371, 10455
Kioto	10706, 10556
Kiton	10037, 10668
KLH	10156, 10180, 10765, 10767, 11962
KLL	10037
Kloss	10030
Kneissel	10037, 10362, 10370, 10374, 10499, 10556, 10610
Kolin	10180, 10150, 10053, 10036, 10108, 11331
Kolster	10037, 10218
Kongque	10009, 10264, 10817
Konichi	10009
Konig	10037
Konka	10180, 10037, 10218, 10371, 10418, 10587, 10641, 10714, 10817, 11084
Kontakt	10487
Korpel	10037
Korting	10370
Kosmos	10037
Koyoda	10009
Kreisen	10876
KTV	10463, 10180, 10030, 10217
Kuaile	10009, 10264
Kulun	10009
Kunlun	10051, 10208, 10226, 10264, 10374, 10661, 10817
Kyoshu	10418
Kyoto	10163, 10217

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L&S Electronic	10714, 10808, 10865
Lark	10154
LaSAT	10486
Lavis	11037
Leader	10009
Lecson	10037
Legend	10009
Lenco	10037, 10374, 10587
Lenoir	10009
Lexsor	11196
Leyco	10037, 10264
LG	10054, 11265, 10060, 10178, 10030, 11758, 11637, 11191, 11178, 10856, 10715, 10714, 10700, 10698, 10556, 10370, 10361, 10217, 10163, 10109, 10108, 10037, 10009, 10001
Liesenk & Tter	10037
Liesenkotter	10037, 10327
Lifetec	10009, 10037, 10218, 10374, 10668, 10683, 10714, 11037, 11137
Lihua	10817
Lloyd's	10236, 10180, 10030, 10001, 10009, 11904
Local India TV	10009, 10208, 10602
Local Malaysia TV	10698
Lodos	11037
Loewe	10037, 10370, 10512, 10633, 10790
Logik	10236, 10180, 10060, 10001, 10009, 10011, 10371, 10698, 10773, 10880, 11037, 11217
Logix	10668
Longjiang	10264, 10817
Luker	11982
Luma	10009, 10163, 10362, 10374, 11037
Lumatron	10037, 10073, 10163, 10217, 10264, 10361, 10556
Lux May	10009, 10037
Luxor	10163, 10208, 10217, 10346, 10361, 10480, 10548, 10631, 11037, 11163
LXI	10047, 10054, 10017, 10154, 10000, 10156, 10051, 10093, 10060, 10053, 10178, 10030, 10171, 10166, 10037, 10036, 10035, 10001, 10208

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Brand	Codes
M Electronic	10009, 10037, 10109, 10163, 10195, 10217, 10287, 10343, 10346, 10374, 10480, 10512, 10634, 10661, 10714
Madison	10037
MAG	11498
Magnadyne	10054, 10163
Magnafon	10073
Magnasonic	10054, 10000, 10156, 10093, 10030, 10092, 10109
Magnavox	10047, 11454, 10054, 10154, 10000, 10250, 10051, 10180, 10060, 10030, 10171, 10092, 10706, 11944, 11904, 11755, 11254, 10802, 10780, 10011, 10035, 10037, 10036
Magnum	10037, 10648, 10714, 10715
Majestic	10017
Mandor	10264
Manesth	10035, 10037, 10217, 10264
Manhattan	10037, 10668, 10778, 10876, 11037, 11267
Marantz	11454, 10054, 10030, 10037, 10556, 10704, 10855
Mark	10009, 10037, 10217, 10374, 10714, 10715
Master's	10499
Mastro	10053, 10706, 10698, 10780
Masuda	10009, 10037, 10217, 10218, 10264, 10371
Matsui	11037, 10744, 10714, 10556, 10487, 10455, 10443, 10433, 10371, 10352, 10335, 10217, 10208, 10195, 10163, 10037, 10036, 10035, 10011, 10009
Matsushita	10250, 10051, 10650
Maxdorf	10773
Maxent	11755, 11756
Maxim	11556, 11982
MCE	10009
Meck	10698
Mediator	10037, 10556
Medion	10037, 10512, 10556, 10668, 10698, 10714, 10808, 10880, 11037, 11137, 11248, 11900
Megapower	10700
Megas	10610
Megatron	10047, 10178, 10145, 10009
MEI	11037
Meile	10264, 10817
Memorex	10154, 10250, 10463, 10180, 10150, 10060, 10178, 10030, 10009, 10035, 10037, 10195, 10877, 11037, 11911
Memphis	10009
Mercury	10060, 10001, 10009, 10037
Mermaid	10037
Metronic	10625
Metz	10037, 10195, 10367, 10388, 10447, 10587, 10668, 10746, 11163
MGA	10150, 10178, 10030, 10218, 10374
MGN Technology	10178
Micro Genius	10150
Micromaxx	10037, 10668, 10714, 10808, 11037
Microstar	10808
MicroTEK	10820, 10860
Midland	10047, 10017, 10051
Mikomi	11037, 11149
Minato	10037, 10556
Minerva	10070, 10108, 10195, 10487
Minoka	10037
Mirror	11900
Mitsubishi	10154, 10250, 10093, 10236, 10180, 11250, 10150, 10178, 10030, 11917, 11037, 10836, 10817, 10556, 10512, 10195, 10108, 10037, 10036, 10011
Mivar	10217
Monaco	10009
Monivision	10700, 10843
Morgan's	10037
Motorola	10054, 10051, 10093, 10150
MTC	10180, 10060, 10030, 10092, 10011, 10370, 10512
MTlogic	10714
Mudan	10051, 10009, 10208, 10226, 10264, 10817
Multitec	10037, 10486, 10668, 11037, 11556
Multitech	10180, 10009, 10037, 10217, 10264, 10370, 10486
Murphy	10163
Musikland	10218
Mx Onda	11498
Myryad	10556

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Brand	Codes
NAD	10156, 10178, 10166, 10037, 10361, 10866, 11156
Naiko	10037, 10606, 11982
Nakimura	10037, 10374
Nanbao	10009, 10264
Nansheng	10264, 10817
Narita	11982
NAT	10226
National	10051, 10208, 10226, 10508
NEC	10047, 10154, 10156, 10051, 10053, 10178, 10030, 11704, 11270, 11170, 10817, 10704, 10661, 10653, 10508, 10499, 10455, 10374, 10264, 10217, 10170, 10036, 10011, 10009
Neckermann	10037, 10200, 10327, 10370, 10418, 10556
NEI	10037, 10163, 10371
Neovia	10865, 10876, 11371
Netsat	10037
NetTV	11755
Neufunk	10009, 10037, 10218, 10556, 10610, 10714
New Tech	10009, 10037, 10217, 10343, 10556
New World	10218
Newave	10093, 10178, 10092, 10009
Nikkai	10009, 10035, 10036, 10037, 10163, 10217, 10218, 10264
Nikkei	10714
Nikko	10178, 10030, 10092
Nikkodo	10178, 10030, 10092
Nishi	10030
Nobliko	10070
Nogamatic	10109
Nokia	10163, 10208, 10346, 10361, 10374, 10480, 10548, 10606, 10610, 10631
Norcent	10748, 10824
Nordic	10217
Nordmende	10037, 10109, 10195, 10287, 10343, 10560, 10714
Normerel	10037
Novatronic	10037, 10374
NTC	10092
Nu-Tec	10455, 10698, 10820
Nyon	10000

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Brand	Codes
Oceanic	10163, 10208, 10361, 10548
Odeon	10264
Okano	10009, 10037, 10264, 10370
Olevia	11144, 11240, 11331, 11610
Omega	10264
Omni	10748, 10698, 10780, 10872
Onida	10053, 11253
Onimax	10714
Onwa	10180, 10218, 10371, 10433, 10602
Opera	10037
Optimus	10154, 10250, 10093, 10180, 10150, 10178, 10030, 10166, 10650
Optoma	10887
Optonica	10093
Orbit	10037
Orcom	11504
Orion	10017, 10236, 10463, 10180, 10178, 11463, 10011, 10037, 10264, 10443, 10556, 10714, 10880, 11196, 11911
Orline	10037, 10218
Ormond	10668, 11037
Osaki	10037, 10217, 10218, 10264, 10374, 10556
Osio	10037
Oso	10218
Osume	10036, 10037, 10218
Otic	11498
Otto Versand	10093, 10036, 10037, 10109, 10195, 10217, 10226, 10343, 10361, 10512, 10556

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Brand	Codes
Pace	10092
Pacific	10037, 10443, 10556, 10714, 11037, 11137
Palladium	10037, 10163, 10200, 10217, 10327, 10370, 10418, 10556, 10714, 11137
Palsonic	10001, 10037, 10217, 10218, 10264, 10418, 10698, 10773, 10778, 11196, 11269, 11904
Panama	10009, 10037, 10217, 10264
Panashiba	10001

Panasonic	10054, 10000, 10156, 10250, 10051, 10236, 10030, 11947, 11946, 11941, 11480, 11310, 11291, 11271, 10853, 10650, 10548, 10508, 10367, 10361, 10226, 10208, 10163, 10108, 10037, 10035		Profex	10009, 10163, 10361		Remotec	10250, 10093, 10145, 10171, 10037	
			Profi	10009		Reoc	10714	
			Profilo	11556		Revox	10037	
Panavision	10037		Profitronic	10037		Rex	10163, 10264	
Panda	10051, 10706, 10009, 10208, 10226, 10264, 10508, 10698, 10780, 10817, 10821		Proline	10037, 10073, 10625, 10634, 11037		RFT	10037, 10264	
			Proscan	11447, 10047, 11347, 11922		Rinex	10773	
			Prosco	10156		Roadstar	10009, 10037, 10218, 10264, 10418, 10668, 10714, 11037, 11900	
Pathe Cinema	10163		Prosonic	10037, 10217, 10370, 10371, 10374, 10668, 10714				
Pathe Marconi	10109					Rolson	11371	
Pausa	10009		Protec	10009, 10037, 10217, 10264		Rover	10036, 10877	
Paxonic	10060, 10030		Protech	10009, 10037, 10217, 10264, 10418, 10486, 10668, 11037		Rowa	10748, 10009, 10037, 10264, 10587, 10698, 10712, 10817	
PCE	10156, 10060							
Penney	10047, 10000, 10156, 10250, 10051, 10060, 10178, 10030, 10035, 10036, 10037, 10070, 10108, 11347		Proton	10178, 10030, 10001, 10009		Royal Lux	10335, 10370	
			Proview	11498		Runco	10017, 10060, 10030	
			ProVision	10037, 10556, 10714, 11037		Ruyi	10817	
Perdio	10037, 10163		Pulsar	10017, 10092		**S** Saba	10250, 10109, 10163, 10287, 10335, 10343, 10361, 10498, 10548, 10560, 10625, 10714	
Perfekt	10037		Pulser	10178, 10092				
Petters	11523		Pvision	10876, 11191				
Philco	10054, 10451, 10463, 10180, 10178, 10030, 10145, 11661, 10037, 10074, 10163, 10370, 10418		Pye	10037, 10374, 10556		Sagem	10455, 10610, 10618	
			Pymi	10009		Saige	10009, 10817	
		Q	Qingdao	10051, 10208, 10226, 10264, 10817		Saisho	10009, 10011, 10163, 10217, 10264	
Philharmonic	10217		Quadral	10051, 10218				
Philips	11454, 10054, 10017, 10000, 10051, 10178, 10030, 10171, 10092, 11961, 11756, 11254, 10690, 10556, 10512, 10374, 10361, 10343, 10200, 10108, 10037, 10009		Quartz	10150, 10178		Saivod	10037, 10668, 10712, 11037, 11163, 11556, 11982	
			Quasar	10250, 10051, 10009, 10035, 10650, 10865		Sakai	10163	
						Sakyno	10455	
			Quelle	10011, 10037, 10070, 10074, 10109, 10195, 10200, 10327, 10361, 10512, 10668, 11037		Salora	10163, 10208, 10361, 10480, 10548, 10631	
						Salsa	10335	
Phocus	10714		Questa	10036		Sampo	10047, 10154, 10093, 10178, 10030, 10171, 10092, 10009, 10036, 10650, 10700, 11755, 11756	
Phoenix	10037, 10163, 10370, 10486		Questar	10036				
Phonola	10037, 10556	**R**	R-Line	10037				
Pilot	10051, 10060, 10178, 10030, 10706, 10011		Rabbit	10047				
			Radialva	10163, 10218		Samsung	10047, 10054, 10017, 10154, 10156, 10093, 10060, 10812, 10702, 10178, 10030, 10092, 10814, 10766, 10718, 10618, 10587, 10817, 10821, 11060, 11249, 11312, 11903, 11959, 10556, 10371, 10370, 10362, 10264, 10226, 10217, 10208, 10163, 10090, 10037, 10036, 10035, 10009	
Pioneer	10166, 10011, 10037, 10109, 10163, 10170, 10370, 10486, 10512, 10679, 10760, 10866, 11260		Radiola	10037, 10217, 10556				
			Radiomarelli	10037				
			RadioShack	10047, 10154, 10180, 10150, 10178, 10030, 10037, 11904				
Pionier	10370, 10486, 11556		Radiotone	10009, 10037, 10264, 10370, 10418, 10648, 10668, 11037				
Plantron	10009, 10037, 10264							
Playsonic	10037, 10217, 10714, 10715		Rank	10070				
Polaroid	10765, 10865, 11276, 11316, 11341, 11498, 11523		Rank Arena	10036, 10602		Sandra	10217	
			RBM	10070		Sanjian	10264	
Poppy	10009					Sanky	10060, 10030	
Portland	10451, 10092, 10374		RCA	11447, 10047, 11454, 10054, 10000, 10051, 10093, 10178, 10030, 10092, 11958, 11953, 11948, 11922, 11917, 11547, 11347, 11247, 11147, 11047, 10679, 10625, 10560, 10090		Sansui	10463, 10060, 10030, 10706, 10037, 10371, 10455, 10602, 10714, 10861, 11371, 11537, 11904, 11911	
Powerpoint	10037, 10487, 10698							
Prandoni-Prince	10361							
Precision	10236, 10180, 10217					Santon	10009	
Premier	10009, 10264		Realistic	10047, 10154, 10180, 10150, 10178, 10030		Sanyo	10047, 10054, 10154, 10000, 10156, 10463, 10180, 10145, 10171, 11755, 11208, 10704, 10508, 10370, 10264, 10217, 10208, 10170, 10163, 10108, 10088, 10037, 10036, 10011, 10009	
President	10860		Recor	10037, 10418				
Prima	10761, 10009, 10264, 10783, 10815, 10817, 11269, 11933		Rectiligne	10037				
			Rediffusion	10036, 10163, 10346, 10361, 10548				
Princeton	10700		Redstar	10037		Sanyong	10037	
Prinston	11037		Reflex	10037, 10668, 11037		Sanyuan	10093, 10009, 10817	
Prinz	10361		Relisys	10865, 10876, 10877, 11207, 11298		Saville	10060	
Prism	10250, 10051							

SBR	10037, 10556
Sceptre	11217
Schaub Lorenz	10361, 10374, 10486, 10548, 10606, 10714, 11191
Schneider	11982, 11904, 11137, 11037, 10714, 10668, 10648, 10556, 10394, 10371, 10361, 10352, 10343, 10218, 10217, 10163, 10070, 10037
Scotch	10178
Scotland	10163
Scott	10236, 10180, 10178, 10030
Sears	10047, 10054, 10017, 10154, 10000, 10156, 10051, 10093, 10060, 10053, 10178, 10030, 10171, 10166, 10035, 10036, 10037, 10001, 10208, 11904
Seaway	10634
Seelver	11037
SEG	10009, 10036, 10037, 10217, 10218, 10264, 10362, 10487, 10668, 11037, 11163
SEI	10037, 10163
Sei-Sinudyne	10037
Seleco	10163, 10264, 10346, 10362, 10371
Semivox	10180
Semp	10156
Sencora	10009
Sentra	10035
Serino	10093, 10455, 10610
Shancha	10264, 10817
Shanghai	10009, 10208, 10226, 10264, 10817
Shaofeng	10145, 10817
Sharp	10054, 10093, 10180, 10053, 10030, 10009, 10036, 10200, 10650, 10653, 10668, 11193, 11393, 11917
Shen Ying	10092, 10009
Shencai	10145, 10009, 10264
Sheng Chia	10093, 10236, 10009
Shenyang	10009, 10264, 10817
Sherwood	10009
Shintoshi	10037
Shivaki	10178, 10037, 10374, 10443, 10556
Show	10009, 10418
Siarem	10163
Siemens	10145, 10037, 10195, 10200, 10327
Siera	10037, 10556
Siesta	10370
Signature	10047, 10093, 10030
Silva	10037, 10361, 10648
Silva Schneider	10037, 11556
Silvano	10587
Silver	10036, 10361, 10455, 10715
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Simpson	10178, 10030, 10011
Singer	10060, 10092, 10009, 10037, 10335, 10371, 10433, 11537
Sinotec	10773
Sinudyne	10037, 10163, 10361
Skantic	10163
SKY	10037, 10880, 11504
Sky Brazil	10880
Sky-North	10037
Skygiant	10180
Skyworth	10748, 10009, 10037, 10264, 10698, 10805, 10817, 11115
Sliding	10865, 10880
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Smaragd	10487
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Solar Drape	10000
Solavox	10037, 10163, 10361, 10548
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Songba	10009
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Sonoko	10009, 10037, 10217, 10264
Sonolor	10163, 10208, 10361, 10548
Sontec	10009, 10037, 10370
Sony	10017, 10154, 11100, 10000, 10150, 10053, 10011, 10036, 10037, 10074, 10353, 10650, 11505, 11651, 11751, 11904
Sound & Vision	10218, 10374
Soundesign	10180, 10178
Soundwave	10037, 10418, 10715
Sova	11952
Sowa	10156, 10051, 10060, 10178, 10092, 10036, 10226
Soyea	10773
Spectra	10009
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Squareview	10171
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SSS	10180
Staksonic	10009
Standard	10009, 10037, 10217, 10218, 10374, 11037
Standard Components	10009, 10218
Starlite	10236, 10180, 10009, 10037, 10163, 10264
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Stern	10163, 10264
Stevison	11982
Strato	10009, 10037, 10264

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Strong	11149, 11163
Studio Experience	10843
Stylandia	10217
Sunkai	10218, 10455, 10487, 10610, 10865
Sunstar	10009, 10037, 10264, 10371
Sunwatt	10455
Sunwood	10037
Superla	10217
Superscan	10093, 10864, 11944
Supersonic	10009, 10208, 10455, 10805
SuperTech	10009, 10037, 10218, 10556
Supra	10178, 10009, 10374
Supreme	10000
Susumu	10218, 10287, 10335
Sutron	10009
SV2000	10054
SVA	10748, 10587, 10865, 10870, 10871, 10872
Svasa	10455
Swisstec	10880, 11504
Sydney	10217
Sylvania	10047, 10054, 10154, 10000, 10051, 10178, 10030, 10171, 10092, 10036, 10037, 10876, 11271, 11904, 11944
Symphonic	10000, 10180, 10178, 10171, 11904, 11944
Synco	10000, 10451, 10093, 10060, 10178, 10092, 10036
Syntax	11144, 11240, 11331
Sysline	10037

T

Brand	Code
T+A	10447
Tacico	10178, 10092, 10009
Tai Yi	10009
Taishan	10009, 10374, 10817
Tandberg	10109, 10361, 10367
Tandy	10093, 10163, 10217, 10218
Targa	11371
Tashiko	10092, 10036, 10163, 10170, 10217, 10650
Tatung	10054, 10154, 10000, 10156, 10051, 10060, 10037, 10036, 10011, 10009, 10217, 11156, 11191, 11248, 11254, 11371, 11556, 11756
TCL	10706, 10698, 11027, 11537
TCM	10714, 10808
Teac	10154, 10178, 10171, 10706, 11755, 11149, 11037, 10714, 10712, 10698, 10668, 10512, 10455, 10418, 10264, 10217, 10170, 10037, 10009
Tec	10009, 10037, 10163, 10217, 10335
Tech Line	10037, 10668, 11163
Techica	10218
Technica	11982
Technics	10054, 10250, 10051, 10226, 10556, 10650
TechniSat	10556, 11267
Technisson	10714
Technosonic	10499, 10556
Technovox	10030, 10217
Techview	10847
Techwood	10250, 10051, 10060, 11163
Tecnimagen	10556
Teco	10051, 10093, 10178, 10092, 10009, 10036, 10218, 10264, 10653, 11040
Tedelex	10009, 10208, 10217, 10418, 10606, 10698, 11537
Teiron	10009
Tek	10820
Teknika	10054, 10463, 10180, 10150, 10060, 10178, 10092
Tele System Electronic	10876
Teleavia	10287, 10343
Telecolor	10017
Telecor	10037, 10163, 10217, 10218, 10394
Telefunken	10702, 11504, 10821, 10820, 10819, 10714, 10712, 10698, 10625, 10587, 10560, 10498, 10486, 10346, 10343, 10335, 10287, 10109, 10074, 10073, 10037
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Telesonic	10037
Telestar	10009, 10037, 10556
Teletech	10009, 10037, 10668, 11037
Teleton	10036, 10217
Televideon	10163
Teleview	10037
Tempest	10009, 10264, 10455
Tennessee	10037
Tensai	10009, 10037, 10217, 10218, 10371, 10374, 10715, 11037
Tenson	10009
Tera	10030, 10092
Tevion	10037, 10556, 10648, 10668, 10714, 10808, 11037, 11137, 11248, 11298, 11498, 11556
Texet	10009, 10217, 10218, 10374
Texla	10780
ThemeScene	10887
Thomas	10047, 10178, 10001, 11904
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Thorn	10035, 10036, 10037, 10073, 10074, 10109, 10163, 10264, 10335, 10343, 10361, 10499, 10512
Thorn-Ferguson	10073, 10335, 10343, 10499
Tiane	10093, 10817
Tiny	11269
TMK	10236, 10180, 10178
TML	11756
TNCi	10017
Tobishi	10218
Tobo	10748, 10009, 10264
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Tokai	10009, 10037, 10163, 10217, 10374, 10668, 11037
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Tokyo	10035
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Tongtel	10587, 10780
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Totevision	10051
Towada	10217
Toyoda	10009, 10264, 10371
Toyomenka	10178
Trakton	10217, 10264
Trans Continens	10037, 10217, 10668, 11037
TRANS-continents	10556, 10865
Transonic	10009, 10037, 10264, 10418, 10455, 10512, 10587, 10698, 10712, 10780
Triad	10218, 10556
Trident	10217
Trio	11498
Tristar	10218, 10264
Triumph	10037, 10346, 10556
Truetone	10250, 10051
Tuntex	10030, 10092, 10009
TVS	10463
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U

Brand	Code
Uher	10037, 10370, 10374, 10418, 10480, 10486
Ultra	10092
Ultravox	10037, 10163, 10374
Unic Line	10037, 10455
United	10037, 10587, 10714, 10715, 11037, 11982
Universal	10047, 10037
Universum	11163, 11037, 10668, 10631, 10618, 10512, 10480, 10418, 10370, 10362, 10361, 10346, 10327, 10264, 10217, 10200, 10195, 10170, 10109, 10074, 10070, 10037, 10036, 10011, 10009
Univox	10037, 10163

V

Brand	Code
V	10864, 10885, 11755, 11756
V2max	10865
V7 Videoseven	10880, 11217, 11755
Vector Research	10030
Vestel	10037, 10217, 10668, 11037, 11163
Vexa	10009, 10037
Victor	10250, 10053, 10036, 10650, 10653
Videocon	10508
Videologic	10218
Videologique	10217, 10218
Videomac	10009
VideoSystem	10037
Videotechnic	10217, 10374
Videoton	10163
Vidikron	10054
Vidtech	10178, 10036
Viewpia	10876
Viewsonic	10857, 10864, 10885, 11330, 11578, 11627, 11755
Viking	10060
Viore	11207
Vision	10037, 10217, 10264
Vizio	10864, 10885, 11755, 11756, 11758
Voxson	10178, 10037, 10163, 10418
Vortec	10037

W

Brand	Code
Waltham	10037, 10109, 10217, 10418, 10443, 10668, 11037
Wards	10047, 10054, 10017, 10154, 10000, 10156, 10051, 10093, 10236, 10180, 10060, 10178, 10030, 10166, 11347, 11156, 11147, 10866, 10195, 10001, 10037, 10035
Warumaia	10374, 10661
Watson	10009, 10037, 10163, 10218, 10394, 10668, 10714, 11037
Watt Radio	10163
Waycon	10156
Wega	10036, 10037
Wegavox	10009
Weipai	10009
Welltech	10714
Weltblick	10217
Welton	10178
Weltstar	11037
Westinghouse	10000, 10451, 10885, 10889, 11282, 11577
Wharfedale	10037, 10556, 10860, 11556
White Westinghouse	10451, 10236, 10463, 10037, 10623, 10889, 11909
Windsor	10668, 11037
Windy Sam	10556
Wintel	10714
World	10451, 10236, 10463, 10180
World-of-Vision	10865, 10877, 10880, 11217, 11298
Worldview	10455

X

Brand	Code
X-View	11191
Xenius	10634, 10661
Xiahua	10009, 10264, 10698, 10773, 10817
Xianghai	10009
Xiangyang	10264
Xiangyu	10009
Xihu	10264, 10817
Xingfu	10009
Xinghai	10264
XLogic	10698, 10860
Xoceco	11064
Xoro	11196, 11217
XR-1000	10154, 10180, 10171
Xrypton	10037

Y

Brand	Code
Yamaha	10030, 10650, 11576
Yamishi	10037, 10217, 10218, 10455
Yapshe	10250
Yingge	10009
Yokan	10037
Yoko	10009, 10037, 10217, 10218, 10264, 10370
Yonggu	10009
Yorx	10030, 10218
Youlanasi	10817
Yousida	10009
Yuhang	10009

Z

Brand	Code
Zanussi	10163, 10217, 10264
Zenith	10047, 10017, 10000, 10093, 10463, 11265, 10812, 10178, 10030, 11145, 10145, 10171, 10092, 10037, 11904, 11909, 11911
ZhuHai	10009, 10374

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A

Brand	Code
Advent	11933
Akai	11675
Akura	11982
Alba	11037
Amstrad	11982
Apex Digital	11943
Audiovox	11937, 11951, 11952
Axion	11937, 11958

B

Brand	Code
Black Diamond	11037
Bush	10698, 11037, 11900

C

Brand	Code
Centrum	11037
Crown	11037

D

Brand	Code
D-Vision	11982
Denver	10587

	Brand	Code
E	Elfunk	11037
F	Ferguson	11037
	Finlux	11556
G	Goodmans	10587, 11037, 11900
H	Hitachi	11960
J	JDV	11982
	Jensen	11933
K	KLH	11962
L	Lenco	10587
	Logik	11037
	Luker	11982
	Luxor	11037
M	Matsui	11037
	Maxim	11982
	Medion	11900
	Mirror	11900
N	Naiko	11982
	Narita	11982
P	Panasonic	11941
	Philips	11454, 10556, 11961
	Powerpoint	10698
	Prima	11933
R	RCA	11948, 11958
	Roadstar	11900
S	Saivod	11982
	Samsung	11903
	Schneider	11982
	SEG	11037
	Sova	11952
	Stevison	11982
	Sylvania	10171
T	Teac	10698
	Technica	11982
	Telefunken	10698
	Thomson	10625
	Transonic	10587
U	United	10587, 11037, 11982
V	Vestel	11037

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	Brand	Code
A	Akai	30695
	Akura	31367
	Alba	30695, 30884
	Amstrad	31367
	Apex Digital	30830
B	Black Diamond	30713, 30884
	Broksonic	30695
	Bush	30713, 30884
C	Centrum	30713
	Citizen	30695
	Crown	30713
D	D-Vision	31367
	DMTech	31271
E	Elfunk	30713, 30884
	Emerson	30675, 31268
	ESA	31268
F	Ferguson	30695, 30713, 30884
	Funai	31268
G	Goodmans	30713
	Grandin	30713
	Grundig	30539, 30695
H	Hitachi	31247
I	Insignia	31268
J	JDV	31367
	JNC	31271
K	Konka	31192
L	Logik	30713, 30884
	Luker	31367
	Luxor	30713
M	Magnavox	31268
	Matsui	30713, 30884
	Maxim	31367
N	Naiko	31367
	Narita	31367
	Neovia	31271
O	Orion	30695
P	Pacific	30695
	Panasonic	31490
	Philips	30539, 30854, 31260
R	RCA	31022
S	Saivod	31367
	Samsung	30899
	Sansui	30695
	Schneider	31367
	SEG	30713, 30884
	Sliding	31115
	Stevison	31367
	Sylvania	30630, 30675, 31268
T	Technica	31367
	Thomson	30551
	Toshiba	30695
U	United	30713, 30884, 31367
	Universum	30713
V	Vestel	30884

TV/VCR Combination ※2, ※3, ※4

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	Brand	Code
A	Aiwa	11904, 11911
	America Action	10180
	Amstrad	10171
	Audiovox	10180
B	Beko	10486
	Black Diamond	11909
	Broksonic	10463, 11911
	Bush	11556
C	Curtis Mathes	10051
D	Daewoo	11909
E	Emerson	10236, 10463, 11909, 11911
F	Ferguson	10073, 10625
	Fidelity	10171
	Funai	11904
G	GE	10047, 10051, 10093, 11917, 11922
	GoldStar	10037
	Goodmans	10374, 11909
	Grundig	10037, 10195, 10556
H	Harley Davidson	11904
	Hinari	10036
	Hitachi	11904
I	Internal	11909
J	JVC	11923
L	LG	10178
	Lloyd's	11904
M	Magnavox	10054, 11904
	Memorex	10250
	Mitsubishi	10093, 10556, 11917
O	Orion	10463, 11911
P	Palsonic	11904
	Panasonic	10250, 10051
	Penney	10051
	Philips	10037, 10556
Q	Quasar	10250, 10051
R	Radiola	10556
	RadioShack	11904
	RCA	10047, 10051, 10093, 11917, 11922
S	Saba	10625
	Samsung	11959
	Sansui	10463, 11904, 11911
	Schneider	10037, 10556, 11904
	Sears	11904
	Sharp	10093, 11917
	Siemens	10037
	Sony	10000, 11505, 11904
	Sylvania	10054
	Symphonic	11904
T	Teac	10178, 10171
	Technics	10556
	Thomas	11904
	Thomson	10625
	Toshiba	11971
W	White Westinghouse	11909
Z	Zenith	11904, 11909, 11911

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	Brand	Code
A	Aiwa	20000, 20352, 20479, 20742, 21137
	Akai	20352
	Alba	20352
	America Action	20278
	Amstrad	20000
	Audiovox	20278
B	Beko	20104
	Bestar	20278
	Blue Sky	20278, 20352, 20742
	BPL	20046
	Broksonic	20002, 20479, 21479
	Bush	20352, 20742
C	Citizen	20278, 21278
	Curtis Mathes	20035, 21035
D	Daewoo	20278, 20637, 21278
	Dantax	20352
E	Emerson	20002, 20278, 20479, 20637, 21278, 21479
F	Ferguson	20000, 20278
	Fidelity	20000
	Firstline	20278
	Funai	20000
G	GE	20060, 20035, 20048, 20240, 20807, 21035, 21060
	GoldStar	20037, 20480, 21237
	Goodmans	20278, 20352, 20637
	Grandin	20278, 20742
	Grundig	20081, 20347, 20352, 20742
H	Hanimex	20352
	Harley Davidson	20000
	Hinari	20352
	Hitachi	20000
	Hypson	20037
I	Internal	20278, 20637
J	JBL	20278
	JMB	20352
K	Kambrook	20037
	Kneissel	20278, 20352
L	LG	20037, 20480, 21237
	Lloyd's	20000
	Loewe	20037
M	Magnasonic	20278, 21278
	Magnavox	20081, 20000, 21781
	Magnin	20240
	Matsui	20352, 20742
	Medion	20352
	Memorex	20162, 20037, 21162, 21237, 21262
	MGA	20240
	Mitsubishi	20048, 20081, 20043, 20807
O	Optimus	20162, 21162, 21262
	Orion	20002, 20352, 20479, 20742, 21479
P	Pace	20352
	Pacific	20742
	Palsonic	20000
	Panasonic	20035, 20162, 21035, 21162, 21262
	Penney	20035, 20037, 20240, 21035, 21237
	Philips	20081
	Portland	20637
Q	Quasar	20035, 20162, 21035, 21162
R	Radiola	20081
	RadioShack	20000
	RCA	20060, 20035, 20048, 20240, 20807, 21035, 21060
S	Saba	20320
	Samsung	20240, 20432, 21014
	Sansui	20000, 20479, 21479
	Sanyo	20240
	Saville	20352
	Schneider	20081, 20000
	Sears	20037, 20000, 21237
	SEG	20637
	Sharp	20037, 20048, 20807
	Shivaki	20037
	Siemens	20081
	Sinudyne	20352
	Sony	20032, 20000, 21232
	Supra	20348
	Sylvania	20081, 21781
	Symphonic	20000
T	Tatung	20352
	Teac	20037, 20000, 20637, 20642
	Technics	20081
	Technosonic	20352
	Telefunken	20278
	Thomas	20000
	Thomson	20278
	Toshiba	20352, 20432, 20845, 21145
U	United	20742
W	White Westinghouse	20278, 20637
Z	Zenith	20000, 20479, 20637, 21479

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	Brand	Code
T	Thomson	30551

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	Brand	Code
A	Akai	11903
B	Broksonic	11938
E	Emerson	11944
	ESA	11944
M	Magnavox	11944
P	Panasonic	11946, 11947
R	RCA	11953

S	Sharp	11917
	Sylvania	11944
	Symphonic	11944
T	Toshiba	11945

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S	Sharp	20807

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A	Akai	30899
E	Emerson	30821
	ESA	30821
M	Magnavox	30821
P	Panasonic	31362, 31462
R	RCA	31132
S	Sharp	30630
	Superscan	30821
	Sylvania	30821
	Symphonic	30821
T	Toshiba	31045

VCR

A	A-Mark	20037, 20240, 20000, 20278, 20046
	ABS	21972
	Admiral	20060, 20048, 20039, 20047, 20104, 20121, 20209, 20479
	Adventura	20037, 20240, 20000
	Aiko	20278
	Aim	20278, 20348, 20642
	Aiwa	20037, 20032, 20000, 20209, 20041, 20348, 20352, 20479, 20742, 21137
	Akai	20037, 20240, 20041, 20106, 20315, 20348, 20352, 20642
	Akura	20041
	Alba	20081, 20000, 20209, 20278, 20315, 20348, 20352
	Alienware	21972
	Allegro	20039, 21137
	Allorgan	20240
	Allstar	20081
	America Action	20278
	American High	20035, 20081
	Amoisonic	20479
	Amstrad	20000, 20278
	Anam	20162, 20037, 20240, 20278, 20226, 20480
	Anam National	20162, 20226, 21162, 21562
	Ansonic	20000
	Aristona	20081
	ASA	20037, 20081
	Asha	20240
	Astra	20035, 20240
	Asuka	20037, 20081, 20000, 20038

	Audiolab	20081
	Audiosonic	20278
	Audiovox	20037, 20278, 20038
	Avis	20000
	AVP	20000, 20352
	Awa	20037, 20043, 20278, 20642
B	Baird	20000, 20104, 20041, 20278, 20046, 20106
	Basic Line	20104, 20278, 20046
	Beaumark	20240
	Beko	20104
	Bell & Howell	20035, 20048, 20039, 20000, 20104, 20046, 20479
	Bestar	20278
	Black Diamond	20642
	Black Panther	20278
	Blaupunkt	20162, 20081, 20226
	Blue Sky	20037, 20209, 20278, 20348, 20352, 20480, 20642, 20742, 21137
	BPL	20046
	Brandt	20041, 20320
	Brandt Electronique	20041
	Brinkmann	20209, 20348
	Broksonic	20184, 20121, 20209, 20002, 20348, 20479, 21479
	Bush	20081, 20000, 20209, 20278, 20315, 20348, 20352, 20642, 20742
C	Calix	20037
	Candle	20037, 20038
	Canon	20035
	Capehart	20002
	Carena	20081, 20209
	Carrefour	20045
	Carrera	20240
	Carver	20035, 20081
	Casio	20000
	Cathay	20278
	CCE	20278
	CGE	20000, 20041
	Changhong	20048, 20081
	Cimline	20209
	Cineral	20278
	CineVision	21137
	Citizen	20035, 20037, 20240, 20000, 20209, 20278, 20479, 21278
	Classic	20037
	Clatronic	20000, 21593
	Colortyme	20060, 20035, 20045, 20278
	Colt	20000
	Combitech	20352
	Condor	20278
	Craig	20037, 20047, 20240
	Criterion	20000

	Crosley	20035, 20081, 20000
	Crown	20037, 20278, 20480
	Curtis Mathes	20060, 20035, 20162, 20240, 20000, 20041, 20278, 20432, 21035
	Cybernex	20240
	CyberPower	21972
	Cyrus	20081
D	Daewoo	20037, 20045, 20104, 20209, 20278, 20046, 20352, 20637, 20642, 21137, 21278
	Dansai	20278
	Dantax	20352
	Daytron	20037, 20278
	De Graaf	20048, 20081, 20042, 20104, 20046
	Decca	20081, 20000, 20067, 20209, 20041, 20352
	Degraff	20048, 20081, 20042, 20104
	Deitron	20278
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DVD preset codes DVD-Voreinstellungscodes Codes préréglés DVD Codici di preselezione DVD Códigos de preajuste de DVD DVD-voorkeuzecodes Förinställda DVD-koder	32134		30490
DENON Model No. Modellnr Modéle numéro Modello No N° de modelo Modelnr Modellnr	DVD-550 DVD-700 DVD-900 DVD-1000 DVD-1400 DVD-1500 DVD-1710 DVD-1910 DVD-1930 DVD-2200 DVD-2800	DVD-2800Ⅱ DVD-2900 DVD-2910 DVD-2930 DVD-3800 DVD-3910 DVD-3930 DVD-A11 DVD-A1 DVD-A1XV	DVD-800 DVD-1600 DVD-2000 DVD-2500 DVD-3000 DVD-3300

[ ]＊: Preset codes set upon shipment from the factory.
　　 : Sie Voreinstellungscodes wurden vor der Auslieferung werkseitig eingestellt.
　　 : Les codes préréglés diffèrent en fonctiom des livraison de l'usine.
　　 : I codici di presettaggio sono impostati in fabbrica prima della consegna.
　　 : Los códigos vienen preprogramados de fábrica.
　　 : Vooringestelde codes bij hey verlaten van de fabriek.
　　 : Förinställda koder har ställts in vid transporten från fabriken.

※1 : These preset codes can be recorded in the SAT/CBL mode.
　　 : Diese voreingestellten Codes können im SAT/CBL-Modus aufgenommen werden.
　　 : Ces codes de présélection peuvent être enregistrés en mode SAT/CBL.
　　 : I codici preimpostati possono essere registrati nel modo SAT/CBL.
　　 : Es posible guardar estos códigos preajustados en el modo SAT/CBL.
　　 : Deze voorkeuzecodes kunnen worden opgenomen in de SAT/CBL-modus.
　　 : Dessa förinställningskoder kan lagras i SAT/CBL-läget.

※2 : These preset codes can be recorded in the TV mode.
　　 : Diese voreingestellten Codes können im TV-Modus aufgenommen werden.
　　 : Ces codes de présélection peuvent être enregistrés en mode TV.
　　 : I codici preimpostati possono essere registrati nel modo TV.
　　 : Es posible guardar estos códigos preajustados en el modo TV.
　　 : Deze voorkeuzecodes kunnen worden opgenomen in de TV-modus.
　　 : Dessa förinställningskoder kan lagras i TV-läget.

※3 : These preset codes can be recorded in the VCR mode.
　　 : Diese voreingestellten Codes können im VCR-Modus aufgenommen werden.
　　 : Ces codes de présélection peuvent être enregistrés en mode VCR.
　　 : I codici preimpostati possono essere registrati nel modo VCR.
　　 : Es posible guardar estos códigos preajustados en el modo VCR.
　　 : Deze voorkeuzecodes kunnen worden opgenomen in de VCR-modus.
　　 : Dessa förinställningskoder kan lagras i VCR-läget.

※4 : These preset codes can be recorded in the DVD mode.
　　 : Diese voreingestellten Codes können im DVD-Modus aufgenommen werden.
　　 : Ces codes de présélection peuvent être enregistrés en mode DVD.
　　 : I codici preimpostati possono essere registrati nel modo DVD.
　　 : Es posible guardar estos códigos preajustados en el modo DVD.
　　 : Deze voorkeuzecodes kunnen worden opgenomen in de DVD-modus.
　　 : Dessa förinställningskoder kan lagras i DVD-läget.

DENON