

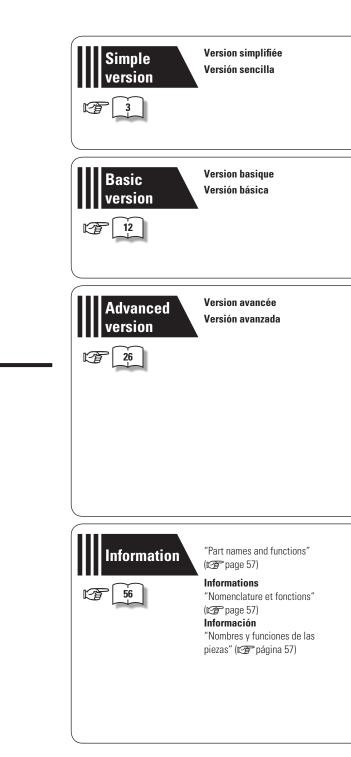
AV SURROUND RECEIVER

AVR-591

Owner's Manual

Manuel de l'Utilisateur

Manual del usuario



SAFETY PRECAUTIONS



CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



CAUTION: HOT SURFACE. DO NOT TOUCH.

The top surface over the internal heat sink may become hot when operating this product continuously.

Do not touch hot areas, especially around the "Hot surface mark" and the top panel.

surface mark

Hot

PRECAUTION: SURFACE CHAUDE. NE PAS TOUCHER.

La surface supérieure du dissipateur de chaleur peut devenir chaude si vous utilisez ce produit en continu.

Ne touchez pas les zones chaudes, tout particulièrement vers l'inscription "Hot surface mark" et le panneau supérieur.

PRECAUCIÓN:

SUPERFICIE CALIENTE. NO TOCAR.

La superficie superior sobre el disipador de calor interno podría llegar a calentarse al operar este producto de forma continua.

No toque las áreas calientes, especialmente las situadas alrededor de la "Hot surface mark" y del panel superior.

IMPORTANT SAFETY INSTRUCTIONS

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

objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

CAUTION:

To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet.

The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user.

PRECAUTION:

Pour déconnecter complètement ce produit du courant secteur, débranchez la prise de la prise murale.

La prise secteur est utilisée pour couper complètement l'alimentation de l'appareil et l'utilisateur doit pouvoir y accéder facilement.

PRECAUCIÓN:

Para desconectar completamente este producto de la alimentación eléctrica, desconecte el enchufe del enchufe de la pared.

El enchufe de la alimentación eléctrica se utiliza para interrumpir por completo el suministro de alimentación eléctrica a la unidad y debe de encontrarse en un lugar al que el usuario tenga fácil acceso.

FCC INFORMATION (For US customers)

1. PRODUCT

This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this product may not cause harmful interference, and (2) this product must accept any interference received, including interference that may cause undesired operation.

2. IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modification not expressly approved by DENON may void your authority, granted by the FCC, to use the product.

3. NOTE

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the local retailer authorized to distribute this type of product or an experienced radio/TV technician for help.

For Canadian customers:

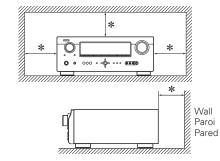
This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.



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

WARNINGS	AVERTISSEMENTS	ADVERTENCIAS
 Avoid high temperatures. Allow for sufficient heat dispersion when installed in a rack. Handle the power cord carefully. Hold the plug when unplugging the cord. Keep the unit free from moisture, water, and dust. Unplug the power cord when not using the unit for long periods of time. Do not obstruct the ventilation holes. Do not let foreign objects into the unit. Do not let insecticides, benzene, and thinner come in contact with the unit. Never disassemble or modify the unit in any way. Ventilation openings with items, such as newspapers, tablecloths or curtains. Naked flame sources such as lighted candles should not be placed on the unit. Observe and follow local regulations regarding battery disposal. Do not handle the mains cord with wet hands. When the switch is in the OFF position, the equipment is not completely switched off from MAINS. The equipment shall be installed near the power supply so that the power supply is easily accessible. 	 Eviter des températures élevées. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère. Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon. Protéger l'appareil contre l'humidité, l'eau et la poussière. Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes. Ne pas laisser des objets étrangers dans l'appareil. Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil. Ne pas recouvrir les ourdine rue. Ne pas recouvrir les ourdine vertilation. Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre. Ne pas recouvrir les orffices de ventilation avec des objets tels que des journaux, nappes ou rideaux. Cela entraverait la ventilation. Ne jamais placer de flamme nue sur l'appareil, notamment des bougies allumées. Veillez à respecter les lois en vigueur lorsque vous jetez les piles usagées. L'appareil ne doit pas être exposé à l'eau ou à l'humidité. Ne pas manipuler le cordon d'alimentation avec les mains mouillées. Lorsque l'interrupteur est sur la position OFF, l'appareil n'est pas complètement déconnecté du SECTEUR (MAINS). L'appareil n'est pas complètement déconnecté du SECTEUR (MAINS). 	 Evite altas temperaturas. Permite la suficiente dispersión del calor cuando está instalado en la consola. Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía. Mantenga el equipo libre de humedad, agua y polvo. Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo. No obstruya los orificios de ventilación. No deje objetos extraños dentro del equipo. No deje objetos extraños dentro del equipo. Nunca desarme o modifique el equipo de ninguna manera. La ventilación no debe quedar obstruida por haberse cubierto las aperturas con objetos como periódicos, manteles o cortinas. No deberán colocarse sobre el aparato fuentes inflamables sin protección, como velas encendidas. A la hora de deshacerse de las pilas, respete la normativa para el cuidado del medio ambiente. No exponer el aparato al goteo o salpicaduras cuando se utilice. No maneje el cable de alimentación con las manos mojadas. Cuando el interruptor está en la posición OFF, el equipo no está completamente desconectado de la alimentación MAINS. El equipo se instalará cerca de la fuente de alimentación de manera que resulte fácil acceder a ella.

CAUTIONS ON INSTALLATION PRÉCAUTIONS D'INSTALLATION EMPLAZAMIENTO DE LA INSTALACIÓN



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

• More than 0.3 m (12 in.) is recommended.

- Do not place any other equipment on this unit.
- * Pour permettre la dissipation de chaleur requise, n'installez pas cette unité dans un espace confiné tel qu'une bibliothèque ou un endroit similaire.
- Une distance de plus de 0.3 m (12 po) est recommandée.
- Ne placez aucun matériel sur cet appareil.
- * Para la dispersión del calor adecuadamente, no instale este equipo en un lugar confinado tal como una librería o unidad similar.
- Se recomienda dejar más de 0.3 m (12 pulg.) alrededor.
- No coloque ningún otro equipo sobre la unidad.

Basic version

Advanced

version

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

Simple version (Simple setup guide)

Getting started

Basic version

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Advanced version

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

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Accessories

Check that the following parts are supplied with the product.

 Owner's manual Warranty (for North Service network lis Remote control un R6/AA batteries Setup microphone (DM-A409, Cord le AM loop antenna FM indoor antenna 	n America mod it it (RC-1147) ngth: Approx. 2	el only) 25 ft / 7.6 m)	1 1 2 1 1
4	6		8 A

About this manual

Operation buttons

The operations described in this manual are based mainly on use of the remote control unit buttons.

❑ Symbols

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

This symbol indicates a supplementary information and tips for operations.



s

This symbol indicates points to remember operations or function limitations.

Illustrations

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

Features

Fully Discrete, identical quality and power for all 5 channels (120 W x 5ch)

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

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

Supports HDMI 1.4 with 3D, ARC, Deep Color, "x.v.Color", Auto Lipsync and HDMI control function

This unit can output 3D video signals input from a Blu-ray Disc player to a TV that supports a 3D system. This unit also supports the ARC (Audio Return Channel) function, which plays back TV sound with this unit via an HDMI cable used for connecting the unit and a TV*.

* The TV should support the ARC function.

4-HDMI inputs and 1-output

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

High Definition Audio Support

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

Dolby Pro LogicIIz

The unit is provided with a Dolby Pro LogicIIz decoder. When you play back the sound in Dolby Pro LogicIIz playback with front height speakers connected to the unit, you can enjoy playback sound with rich spacial expression.

Easy to use, On Screen Display

Simple settings are enabled with the setting menus displayed on the TV screen. When you control the sound volume, the volume level is displayed on the screen, and when you switch the input source, the name of the input source is displayed.

Auto setup function

The unit is provided with an "Auto setup function" which automatically makes speaker settings best suited for the listening environment. The sound from the speakers is picked up with the supplied microphone. Reflecting sound and audio characteristics of speakers are measured, and settings for an optimum sound field are automatically made.

Upconverting of all types of source video signals to HDMI signals

This unit is provided with functions for automatic conversion of various video signals (component video, S-Video, video) that are input to this unit into HDMI signals for output to a monitor, allowing connection between this unit and a TV to be made with a single HDMI cable.

Dock connecrivity for iPod and network streaming

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

* An Internet connection environment is required.

Cautions on handling

• Before turning the power switch on

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

• Power is supplied to some of the circuitry even when the unit is set to the standby mode. When 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.

About Care

• Wipe the cabinet and control panel clean with a soft cloth.

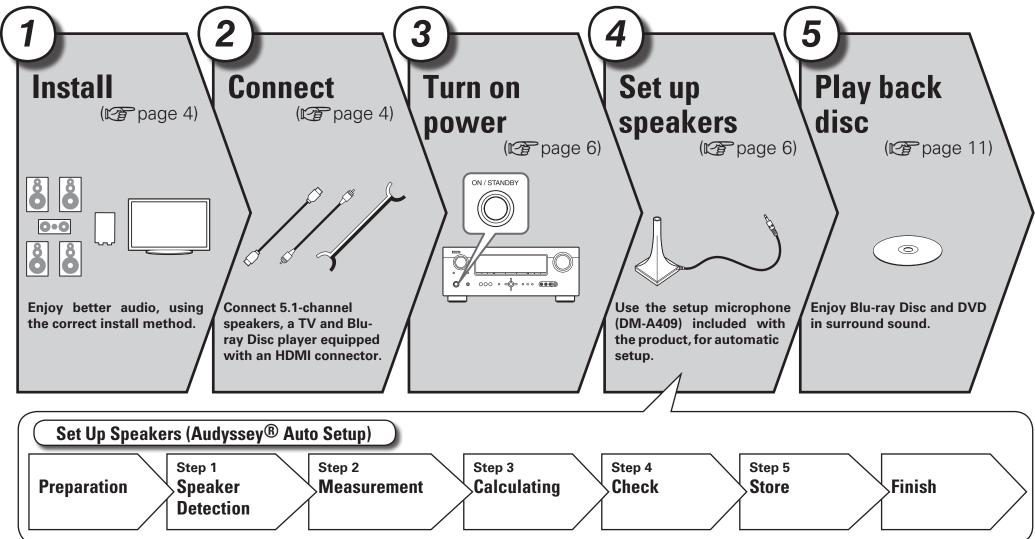
- Follow the instructions when using a chemical cleaner.
- Benzene, paint thinner or other organic solvents as well as insecticide may cause material changes and discoloration if brought into contact with the unit, and should, therefore, not be used.

Simple Version (Simple setup guide)

Here, we explain the entire setup procedure, from unboxing the unit to using it in a home theater. The "Simple version" describes the installation, connection and setup methods for 5.1-channel speakers. See page 27 for the installation, connection and setup methods for speakers other than 5.1-channel speakers.

□ Before connecting the unit, turn off the power to all devices.

□ For operation of the connected devices, refer to the user manuals for each device.



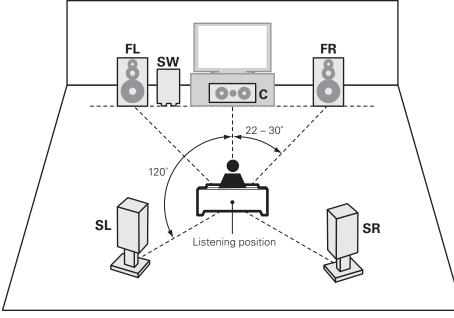
ENGLISH

Information



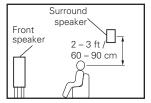


This unit can perform 2.0/2.1 to 7.1-channel surround playback. Here, we explain setup using the example of 5.1-channel speaker playback.



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

• Install the surround speakers in a position 2 to 3 ft (60 to 90 cm) higher than ear level.



[Viewed from the side]

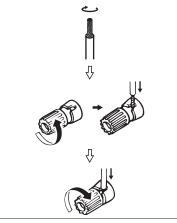


Speakers

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

Connecting the speaker cables

Peel off about 0.03 ft/10 mm of sheathing from the tip of the speaker cable, then either twist the core wire tightly or terminate it.



When using a banana plug

Tighten the speaker terminal firmly before inserting the banana plug.



NOTE

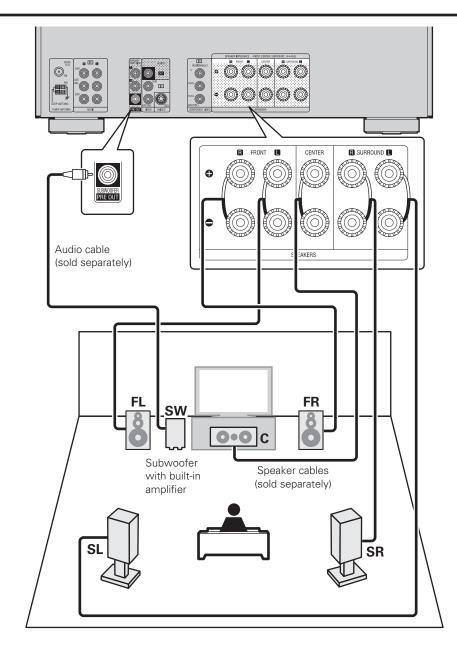
- Connect so that the speaker cable core wires do not protrude from the speaker terminal. The protection circuit may be activated if the core wires touch the rear panel or if the + and – sides touch each other (Protection Circuit").
- Never touch the speaker terminals while the power supply is connected.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

Speaker terminals	Speaker impedance
FRONT	
CENTER	6 – 16 Ω
SURROUND	

Connect

Simple version

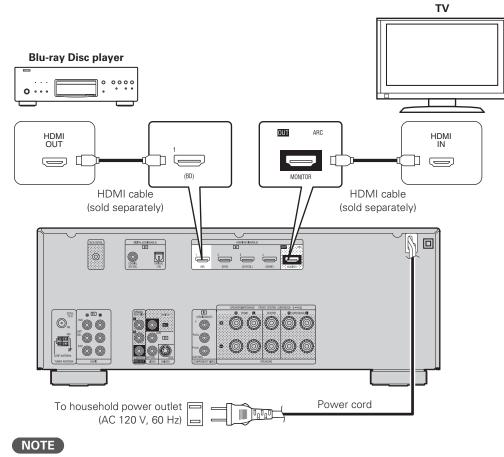
Basic version



Blu-ray Disc player and TV

Use only HDMI (High Definition Multimedia Interface) cable that bears the HDMI logo (genuine HDMI product). Using cable without the HDMI logo (non-genuine HDMI product) may result in abnormal playback.

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



• Do not plug in the power cord until all connections have been completed.

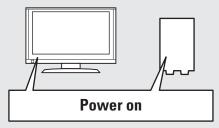
• Do not bundle power cords together with connection cables. Doing so can result in humming or noise.



3

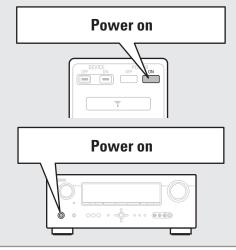
<u>Turn on power</u>

Turn on the TV and subwoofer power.



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

The power indicator flashes green and the power turns on.



4 Set up speakers (Audyssey® Auto Setup)

The acoustic characteristics of the connected speakers and listening room are measured and the optimum settings are made automatically. This is called "Audyssey Auto Setup".

To perform measurement, place the setup microphone in multiple locations all around the listening area. For best results, we recommend you measure in six positions, as shown in the illustration (up to six positions).

- When performing Audyssey Auto Setup, MultEQ[®]/Dynamic EQ[®]/Dynamic Volume[™] functions become active (☞ page 43, 44).
- To set up the speakers manually, use "Speaker Setup" (127 page 46) on the menu.

NOTE

- Make the room as quiet as possible. Background noise can disrupt the room measurements. Close windows, silence cell phones, televisions, radios, air conditioners, fluorescent lights, home appliances, light dimmers, or other devices as measurements may be affected by these sounds.
- Cell phones should be placed away from all audio electronics during the measurement process as Radio Frequency Interference (RFI) may cause measurement disruptions (even if the cell phone is not in use).
- Do not unplug the setup microphone from the main unit until Audyssey Auto Setup is completed.

• 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.

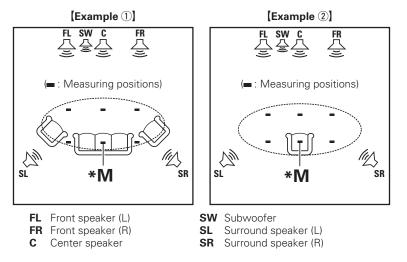
- Loud test sounds may be played during Audyssey Auto setup. This is part of normal operation. If there is background noise in room, these test signals will increase in volume.
- Operating **VOL V** during the measurements will cancel the measurements.
- Measurement cannot be performed when headphones are connected.



The "Simple version" describes the installation, connection and setup methods for 5.1-channel speakers. See page 27 for the installation, connection and setup methods for speakers other than 5.1-channel speakers.

About setup microphone placement

- Measurements are performed by placing the setup microphone successively at multiple positions throughout the entire listening area, as shown in **[Example** ①]. For best results, we recommend you measure in six positions, as shown in the illustration (up to six positions).
- 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.



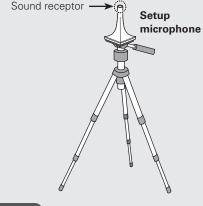
About the main listening position (*M)

The main listening position is the position where listeners would normally sit or where one would normally sit alone within the listening environment. Before starting Audyssey Auto Setup, place the setup microphone in the main listening position. Audyssey MultEQ[®] uses the measurements from this position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer.

Set up the microphone

Mount the setup microphone on a tripod or stand and place it in the main listening position.

When placing the setup microphone, adjust the height of the sound receptor part to the level of the listener's ear.



NOTE

- Do not hold the setup microphone in your hand during measurements.
- Avoid placing the setup microphone close to a seat back or wall as sound reflections may give inaccurate results.

Set up the subwoofer

If using a subwoofer capable of the following adjustments, set up the subwoofer as shown below.

When using a subwoofer with a direct mode

Set the direct mode to "On" and disable the volume adjustment and crossover frequency setting.

When using a subwoofer without a direct mode

Make the following settings:

- Volume : "12 o'clock position"
- Crossover frequency:
- "Maximum/Highest Frequency"
- Low pass filter : "Off"

2

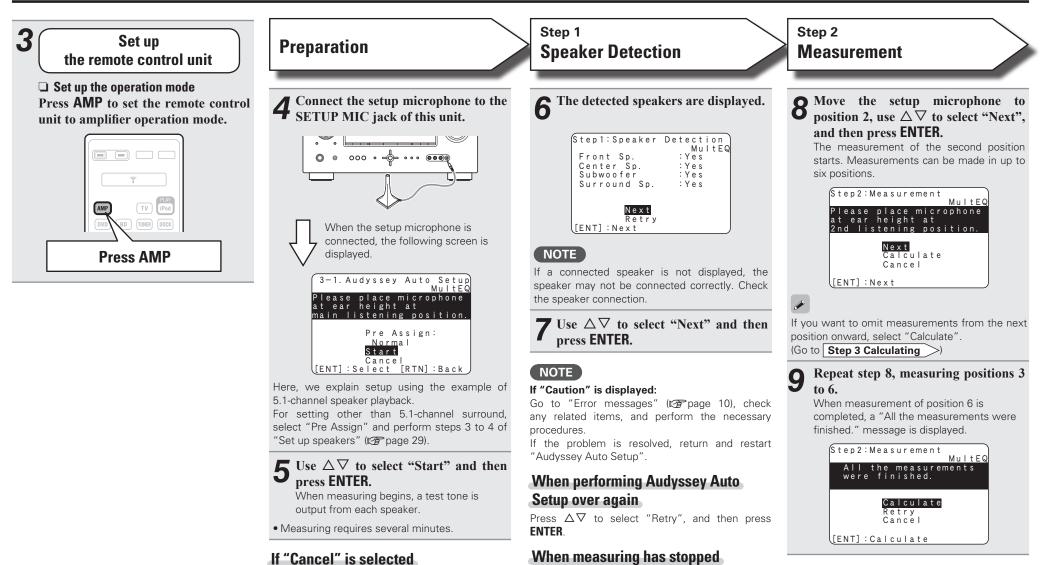
• Standby mode : "Off"

The "Simple version" describes the installation, connection and setup methods for 5.1-channel speakers. See page 27 for the installation, connection and setup methods for speakers other than 5.1-channel speakers.

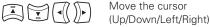
7

Basic version

Set up speakers (Audyssey[®] Auto Setup)



8



Setup" closes.

"Cancel Auto Setup?" is displayed on the TV

screen. If "Yes" is selected, "Audyssev Auto



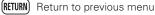
ENTER

(1) Press $\Delta \nabla$ to select "Cancel", then press

Setting up the speakers again

(2) Press $\triangleleft \triangleright$ to select "Yes", then press **ENTER**.

Repeat the operation from step 4 of **Preparation**



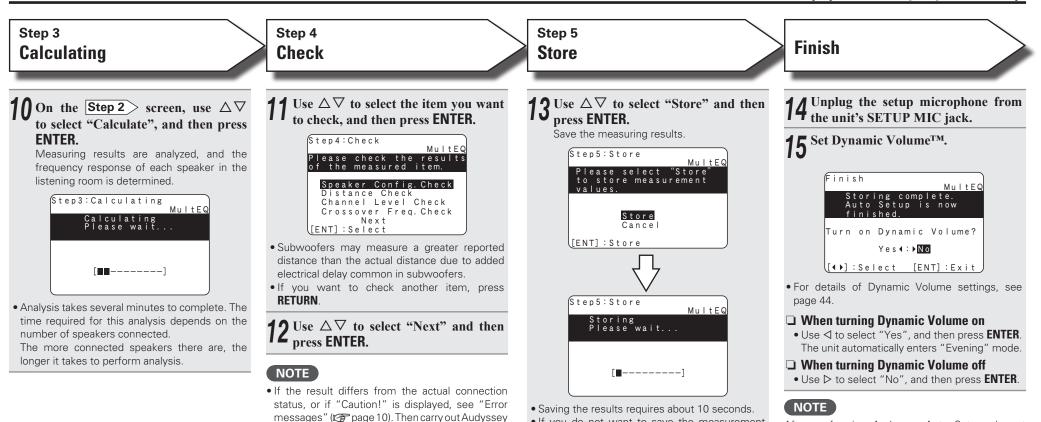


Simple version

Basic version

Advanced version

Set up speakers (Audyssey[®] Auto Setup)



• If you do not want to save the measurement After performing Audyssey Auto Setup, do not results, use $\Delta \nabla$ to select "Cancel", then select change the speaker connections or subwoofer "Yes" using $\triangleleft \triangleright$. All the measured Audyssey volume. In event of a change, perform Audyssev Auto Setup data will be erased. Auto Setup again.

NOTE

During saving of measuring results, be sure not to turn off the power.



Auto Setup again.

• If the result still differs from the actual connection

status after remeasurement or the error message

still appears, it is possible that the speakers

are not connected properly. Turn this unit off, check the speaker connections and repeat the

 If you change a speaker position or orientation, perform Audyssey Auto Setup again to obtain

measurement process from the beginning.

optimal equalizer correction.



Confirm the setting

9

Error messages

Parameter Check

An error message is displayed if Audyssey[®] Auto Setup could not be completed due to speaker placement, the measurement environment, etc. If this happens, check the relevant items, be sure to take the necessary measures, then perform Audyssey Auto Setup over again.

NOTE

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

Examples	Error details	Measures
Caution MultEQ Microphone:None	• The connected setup microphone is broken, or a device other than the supplied setup microphone is connected.	 Connect the included setup microphone to the SETUP MIC jack of this unit.
Speaker :None Retry Cancel [ENT] :Retry	 Not all speakers could be detected. The front L speaker was not properly detected. 	 Check the speaker connections.
aution	There is too much noise in the room for accurate measurements to be made.	 Either turn off any device generating noise or move it away.
●Ambient noise is too high or		 Perform again when the surroundings are quieter.
Level is too low.	• 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.
Retry Cancel		Adjust the subwoofer's volume.
[ENT] : Retry		
aution MultEQ	• The displayed speaker could not be detected.	Check the connections of the displayed speaker.
Front R:None		
Retry Cancel Skip [▲▼]:Up/Down [◀▶]:CH		
Caution MultEQ	• The displayed is connected with the polarities reversed.	 Check the polarities of the displayed speaker. For some speakers, this error message may
<pre> Front L : Phase Retry Cancel Skip </pre>		be displayed even if the speaker is properly connected. If you are sure the connection is correct, press $\Delta \nabla$ to select "Skip", then press ENTER .

Enables you to check the measurement results and equalizer characteristics after Audyssey Auto Setup.

Use $\Delta \nabla$ to select "Parameter Check" and then press **ENTER**.

Use $\Delta \nabla$ to select the item you want to check, then press ENTER.					
3-2.	Parameter Check				
Spea Dist Char Cros EQ C	Speaker Config.Check Distance Chenck Channel Level Check Crossover Freq.Check EQ Check				
Rest	Restore				
[ENT]	:Select [RTN]:Back				
peaker Config. Check	Check the speaker configuration.				
Distance Check	Check the distance.				
Channel Level Check	Check the channel level.				
rossover Freq. Check	Check the crossover frequency.				
EQ Check	Check the equalizer.				

If "EQ Check" is selected in step 2, press $\Delta \nabla$ to select equalizing curve ("Audyssey" or "Audyssey Flat") to be checked. Use $\triangleleft \triangleright$ to switch the display between the different speakers.

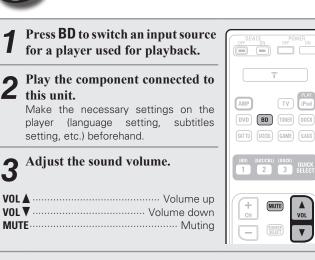
Press RETURN.

The confirmation screen reappears. Repeat steps 2 and 3.

Retrieving Audyssey Auto Setup settings

f you set "Restore" to "Yes", you can return to Audyssey Auto Setup neasurement result (value calculated at the start by $MultEQ^{(R)}$) even when you have changed each setting manually.





Play back disc

5

When power is switched to standby

Press POWER OFF.

- [Power indicator status in standby mode]
- Normal standby : Off
- When "HDMI Control" is set to "ON" : Red

	ŝ.		-	
	L	1		
	L	-	6	

You can also switch the power to standby by pressing $\ensuremath{\text{ON/STANDBY}}$ on the main unit.



POWER

Set the listening mode.

Set the listening mode according to the playback contents (cinema, music, etc.) or according to your liking (12) page 23 "Selecting a listening mode (Surround mode)").

NOTE

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









Basic version

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

- Connections
- Playback (Basic operation)
- Selecting a listening mode (Surround mode)

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

Audio and video	Connection	Playback
TV	🕼 page 14, 16	-
Blu-ray Disc player	🕼 page 14, 16	🕼 page 20
DVD player	🕼 page 14, 16	🕼 page 20
Set-top box (Satellite tuner or cable TV)	🕼 page 14, 17	-
Game console	🕼 page 14	-
Digital camcorder	🕼 page 17	-
Control dock for iPod	🕼 page 18	🕼 page 20
Audio	Connection	Playback
Radio	🖅 page 18	🕼 page 22
For enables connections, see none 4		

For speaker connections, see page 4.

Connections

Important information

- Connect this unit as follows before using. Make connections according to the equipment you are connecting.
- Some settings of this unit may be necessary depending on the connection method. Check each connection item for more information.
- Select the cables (sold separately) according to the components being connected.

NOTE

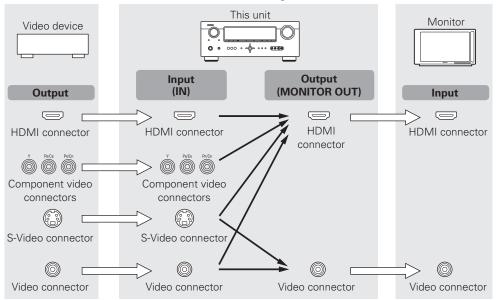
- Do not plug in the power cord until all connections have been completed.
- When making connections, also refer to the operating instructions of the other components being connected.
- Be sure to connect the left and right channels properly (left with left, right with right).
- Do not bundle power cords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

Converting input video signals for output (Video conversion function)

This unit is equipped with four types of video input connectors (HDMI, Component video, S-Video and video) and two types of video output connectors (HDMI and video).

Use the connectors corresponding to the components to be connected.

This function automatically converts various formats of video signals input to this unit into the formats used to output the video signals from this unit to a monitor.



[Flow of video signals]

- The video conversion function supports the NTSC, PAL, SECAM, NTSC 4.43, PAL-N, PAL-M and PAL-60 formats.
- Resolutions of HDMI-compatible TVs can be checked at "HDMI Monitor Information" (1277 page 51).

- HDMI signals cannot be converted into analog signals.
- When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate.
- Component video input signals cannot be converted into Video format.

Important information

How the on-screen display is displayed depending on the video input signal

The way the on-screen display of the menus, status, etc., is displayed differs according to the type of video signal input to this unit.

U When video signals are input from the HDMI or component video

connectors

- Menu: Switches to a screen with a black background and the menu is superimposed *.
- Status display: Not displayed.
- * If you want to display the menus superimposed on the picture being played, input the same video signals to the video connectors. When a menu is displayed, the picture switches to the one being input from the video connectors and the menu is displayed superimposed over this picture.

U When video signals are being input from the S-Video or video Connectors

- Menu: Menus are displayed superimposed over the picture being played.
- Status display: Displayed.

[ENT] : Select

Examples of on-screen display

• Menu screen	 Status display screen When the input source switched 	• When the volume is adjusted is
MENU 1. Audio Adjust 2. Information 3. Auto Setup 4. Manual Setup 5. Input Setup	[Auto] IN : DVD	

MODE: STEREO

Status display: The operating status is displayed temporarily on the screen when the input source is switched or the volume is adjusted.

Master Volume -80.0dB

Connecting an HDMI-compatible device

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

HDMI function

This unit supports the following HDMI functions:

- High resolution video signal
- 3D
- Deep Color (😰 page 66)
- Auto Lip Sync (😰 page 48)
- x.v.Color, sYCC601 color, Adobe RGB color, Adobe YCC601color (12) page 66, 67)
- High definition digital audio format
- ARC (Audio Return Channel)
- Content Type
- CEC (HDMI control)

Copyright protection system

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

• If a device that does not support HDCP is connected, video and audio are not output correctly. Read the owner's manual of your television or player for more information.

About HDMI cables

- When a device supporting Deep Color signal transfer is connected, use a cable compatible "High Speed HDMI cable" or "High Speed HDMI cable with Ethernet"
- When the ARC function is used, connect a device with a "Standard HDMI cable with Ethernet" or "High Speed HDMI cable with Ethernet" for HDMI 1.4.

HDMI control function (P page 30)

This function allows you to operate external devices from the receiver and operate the receiver from external devices.



- The HDMI control function may not work depending on the device it is connected to and its settings.
- You cannot operate a TV or Blu-ray Disc player / DVD player that is not compatible with the HDMI control function.

About 3D function

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

Information

Connecting an HDMI-compatible device

Basic version

Advanced version

About ARC (Audio return channel) function

The Audio Return Channel in HDMI 1.4 enables a TV, via a single HDMI cable, to send audio data "upstream" to this unit, increasing user flexibility and eliminating the need for any separate S/PDIF audio connection.

NOTE

To enable the ARC function, set "HDMI Control" to "ON" (@ page 48).

About Content Type

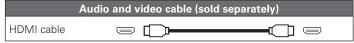
The HDMI Specification Version 1.4 enables simple, automated picture setting selection with no user intervention.

The Content Type feature enables a display to auto-select the correct viewing mode to match the content type it is currently receiving from a source device, and to switch modes when a new content source is selected. Content Type supports content profiles for gaming, movie, photograph, and text viewing modes.

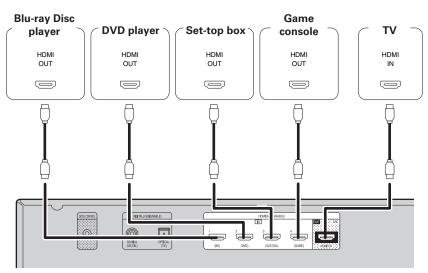
NOTE

To enable the Content type, set "Video Mode" to "Auto" (1 page 39).

Cables used for connections



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



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

NOTE

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

Connecting to a device equipped with a DVI-D connector

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

NOTE

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

□ Settings related to HDMI connections

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

Input Assign (😰 page 38)

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

HDMI Setup (🖙 page 48)

Make settings for HDMI video/audio output.

- Auto Lip Sync
- HDMI Audio Out
- HDMI Control
- Standby Source
- Power Off Control

NOTE

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

Connecting a TV

- Select the connector to use and connect the device.
- For video connections, see "Converting input video signals for output (Video conversion function)" (127 page 13).
- For instructions on HDMI connections, see "Connecting an HDMI-compatible device" (1277 page 14).

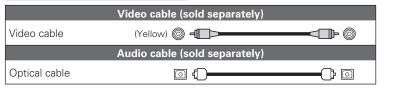
To listen to TV audio through this device, use the optical digital connection.

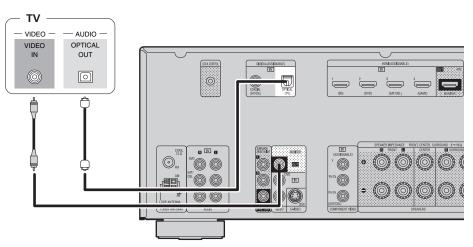
NOTE

This connection is not required when a TV compatible with the ARC function (Audio Return Channel (HDMI 1.4 standard function)) is connected to this unit via an HDMI connection.

For details, see "About ARC (Audio return channel) function" (E page 15) or refer to the instruction manual for your TV.

Cables used for connections





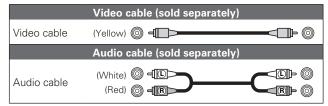
in Set as Necessary

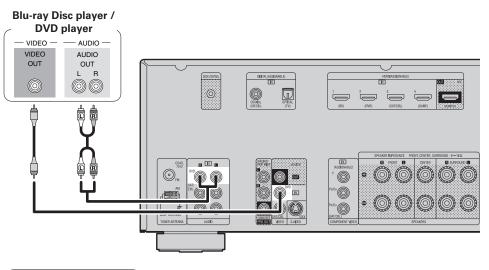
Set this to change the digital input connector to which the input source is assigned. **"Input Assign"** (P page 38)

Connecting a Blu-ray Disc player / DVD player

- You can enjoy video and audio from a Blu-ray Disc or DVD.
- Select the connector to use and connect the device.
- For instructions on HDMI connections, see "Connecting an HDMI-compatible device" (127 page 14).

Cables used for connections





in Set as Necessary

Set this to change the digital input connector to which the input source is assigned. "Input Assign" (P page 38)

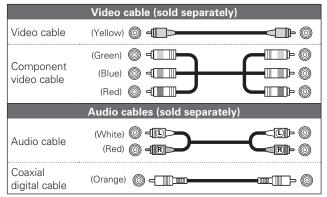
For HD audio (Dolby TrueHD, DTS-HD, Dolby Digital Plus and DTS Express) playback, connect with HDMI (*** page 14 "Connecting an HDMI-compatible device").

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

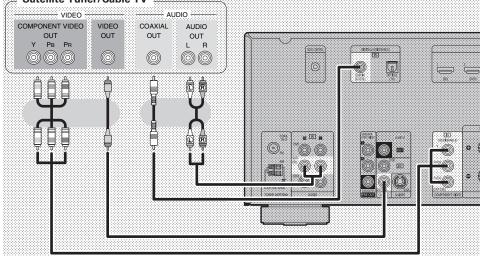
• You can watch satellite or cable TV.

- Select the connector to use and connect the device.
- For instructions on HDMI connections, see "Connecting an HDMI-compatible device" (1777 page 14).

Cables used for connections



Satellite Tuner/Cable TV



in Set as Necessary

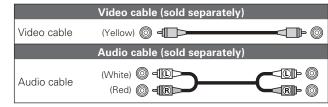
Set this to change the digital input connector or component video input connector to which the input source is assigned.

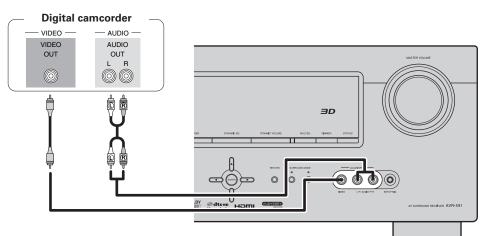
"Input Assign" (😰 page 38)

Connecting a digital camcorder

- You can enjoy video and audio from a digital comcorder.
- For instructions on HDMI connections, see "Connecting an HDMI-compatible device" (127 page 14).

Cables used for connections





in Set as Necessary

Set this to change the digital input connector to which the input source is assigned. **"Input Assign"** (127) page 38)

You can enjoy games by connecting a game machine via the V.AUX input connector. In this case, set the input source to "V.AUX".

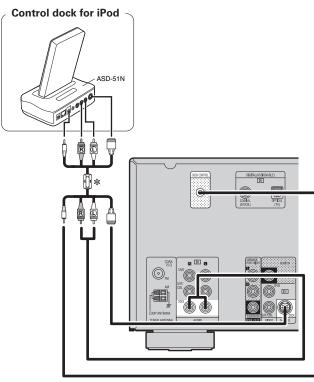
NOTE

Ø

When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate. In this case, use the monitor output of the same connector as the input.

Connecting a control dock for iPod

- Connect the control dock for iPod to the unit to enjoy video and music stored on an iPod.
- For the control dock for iPod, use ASD-1R, ASD-11R, ASD-3N, ASD-3W, ASD-51N and ASD-51W made by DENON (sold separately).
- For instructions on the control dock for iPod settings, refer to the control dock for iPod's operating instructions.



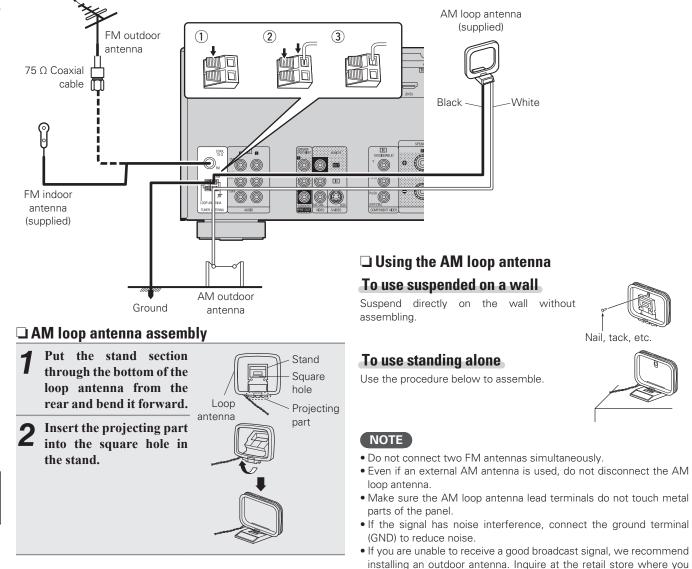
* Use the AV/Control Cable supplied with the DENON control dock for iPod.

in Set as Necessary

Set this to change the digital input connector to which the input source is assigned. "Input Assign" (@page 38)

Connecting an antenna

- Connect the FM antenna or AM loop antenna included with the unit to enjoy listening to radio broadcasts.
- After connecting the antenna and receiving a broadcast signal (127 page 22 "Listening to FM/AM broadcasts"), use tape to fix the antenna in a position where noise is the lowest.

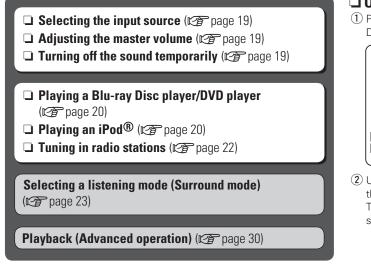


purchased the unit for details.

Advanced versior

Simple version

Playback (Basic operation)



Important information

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

NOTE

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

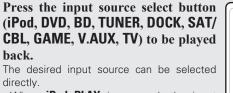
ī

DVD BD TUNER DOCK

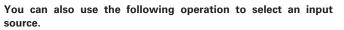
SAT TU SAT/CBL GAME V.AUX

TV PLAY iPod

Selecting the input source



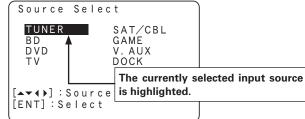
• When iPod PLAY is pressed, the input source of this unit is switched to "DOCK" and the connected iPod is automatically played (Program played (Program played (Program played (Program played P



Using the "Source Select" menu

(1) Press **SOURCE SELECT**.

Display the "Source Select" menu.



• Input sources that are not going to be used can be set ahead of time.

• To turn off the source selection menu without selecting an input

Make this setting at "Source Delete" (R page 49).

(2) Use $\Delta \nabla \triangleleft \triangleright$ to select the input source, then press ENTER. The input source is set and the source selection menu is turned off.

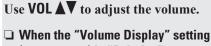
source, press SOURCE SELECT again.

Turn SOURCE SELECT.

Using the knob on the main unit

• Turning **SOURCE SELECT** switches

Adjusting the master volume



(E) page 49) is "Relative" [Adjustable range] --- - - - 80.5dB - 18.0dB

- □ When the "Volume Display" setting (☞ page 49) is "Absolute"
- [Adjustable range] 0.0 99.0

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

Ø You can also operate via the main unit. In this case, perform the following operations. Turn **MASTER VOLUME** to adjust the volume.



MASTER VOLUME

Turning off the sound temporarily Press MUTE.

SOURCE SELECT

 \bigcirc

SOURCE

	J Z J SELEUI
	CH VOL

• The sound is reduced to the level set at "Mute Level" (P page 49). • To cancel, press **MUTE** again. Muting can also be canceled by adjusting the master volume.

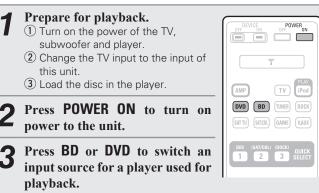
the input source, as shown below. • If "Tuning Preset" mode is selected for the input source, press SOURCE before turning SOURCE SELECT. ► BD <=> DVD <=> TV <=> SAT/CBL <=</p> → TUNER →→ DOCK →→ V.AUX →→ GAME →





Playing a Blu-ray Disc player/DVD player

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



Play the component connected to this unit.

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

Playing an iPod®

You can play back both video, photo and audio.

Listening to music on an iPod[®]

DENON Control dock for iPod usable on this unit ASD-1R/ASD-11R/ASD-3N/ASD-3W/ASD-51N/ASD-51W

Prepare for playback.

① Connect the DENON control dock for iPod to this unit (CP page 18 "Connecting a control dock for iPod"). (2) Set the iPod[®] in the DENON control dock for iPod.

2 Press **POWER ON** to turn on power to the unit.

Press **DOCK** to switch the input source to "DOCK". 3

• If "Browse mode" is selected in step 4, the following screen is displayed on a TV screen, depending on the connected control dock for iPod.

[When using an ASD-1R]	[When using an ASD-11R]
Music	i P o d
Playlists Artists Albums Songs Genres	Music → Videos
Composers [1/6]	[1/2]

When using an ASD-3N, ASD-3W, ASD-51N and ASD-51W DENON ٦ iPod Music Up/Down Select • In "Browse mode", the iPod display is as Þ i Pod shown at right. NOTE DENON If the connections screen is not displayed, OK to disconnect. the iPod may not be properly connected. Reconnect it.

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

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

- **Browse mode** Display iPod information on the TV screen.
- English letters, numbers and certain symbols are displayed. Incompatible characters are displayed as "." (period).

Remote mode Display iPod information on the iPod screen.

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

Display mode		Browse mode	Remote mode
	Music file	\checkmark	\checkmark
Playable files	Photo file		√ *2
	Video file	√*1	√ *2
Active buttons	Remote control unit (This unit)	\checkmark	\checkmark
	iPod®		\checkmark

POWER_

TV

3 SE

-

DVD BD TUNER DOCK

(SAT TU) (SAT/CBL) (GAME) (V.AUX)

MUTE .

2

÷

- *1 When using an ASD-11R, ASD-3N, ASD-3W, ASD-51N or ASD-51W DENON control dock for iPod. *2 Video may not be output, depending on
- the combination of ASD-1R, ASD-11R, ASD-3N, ASD-3W, ASD-51N or ASD-51W DENON control dock for iPod and iPod.
- Use $\Delta \nabla$ to select the item, then press **ENTER** or \triangleright to select the file to be played.

Press ENTER, \triangleright or \blacktriangleright . 0 Plavback starts.

Simple version

Basic version

Playing an iPod[®]

iPod operation

DEVICE POWER OFF ON OFF ON	Operation buttons	Function
	MENU	Amp menu
Ţ		Cursor operation
AMP TV Pod DVD BD TUNER DOCK	ENTER	Enter setting
SATTU SATER GAME VALK	SEARCH (Press and release)	Page search mode * 1
	SEARCH (Press and hold)	Browse / Remote mode switching
CH VOL	RETURN	Return
		Manual search
	(Press and hold)	(fast-reverse/fast-forward)
	•	Playback / Pause
		Auto search (cue)
MULTEO IMICI DIVIVIL RESTORER	11	Pause
		Stop
	RESTORER	RESTORER
	MEMORY	Store memory * 2
	TV POWER	TV power on/standby (Default : SON)
RG-1343	TV INPUT	Switch TV input (Default : SONY)

used.

NOTE

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

functions may not operate.

conjunction with the iPod.

POWER

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

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

NOTE

3

Video may not be output, depending on the combination of ASD-1R, ASD-11R, ASD-3N, ASD-3W, ASD-51N or ASD-51W and iPod.

iPod play function

If iPod PLAY is pressed when power of this unit is on standby and a control dock for iPod is connected, the iPod starts playback.

Press iPod PLAY.

- Power of this unit is turned on.
- This unit's input source switches to "DOCK". DVD BD TUNER DOCK
- iPod plavback starts.

(SAT TU) (SAT/CBL) (GAME) (V.AUX)

- Advanced version

Information

iPod PLAY

iPod

If iPod PLAY on the main unit is pressed, the same function as with the remote control unit can be obtained.

NOTE

iPod play function does not function if a control dock for iPod ("DOCK") is not connected.



• Repeat playback (repeat ") page 40 "Repeat")

• Shuffling playback (r page 40 "Shuffle")

*1 This functions when an ASD-1R or ASD-11R is

* 2 This functions when an ASD-3N, ASD-3W, ASD-

• To play back compressed audio with extended bass or treble reproduction, we recommend playback in RESTORER mode (page 45). The default setting is "Mode 3".

51N or ASD-51W is used.

• In Browse mode, press STATUS during playback to check the title name, artist name, and album name.



on/standby (Default : SONY)



- Watching the iPod's screen, use $\Delta \nabla$ to select "Photos" or "Videos".
- Depending on the iPod model, it may be necessary to operate the iPod unit directly.



 Note that DENON will accept no responsibility whatsoever for any problems arising with the data on an iPod when using this unit in

Viewing videos on an iPod[®] in the Browse mode

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

Use $\Delta \nabla$ to select "Videos", then press **ENTER** or \triangleright . Use $\Delta \nabla$ to select the search item

or folder, then press **ENTER** or \triangleright .

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

Plavback starts.

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

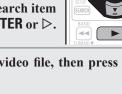
This unit can play back on a TV screen photos and data stored on an iPod equipped with a slide show or video function.

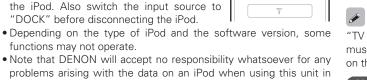
Press and hold **SEARCH** to set the Remote mode.

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





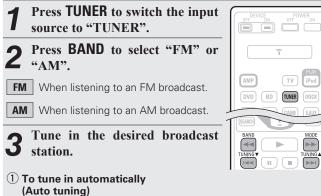






Tuning in radio stations

Listening to FM/AM broadcasts



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

2 To tune in manually (Manual tuning)

Operation buttons

Press **MODE** to turn off the display's "AUTO" indicator, then use **TUNING** \blacktriangle or **TUNING** \checkmark to select the station you want to hear.

□ Tuner (FM/AM) operation



	CH +, –	Preset channel selection	
	MENU	Amp menu	
		> Cursor operation	
	ENTER	Enter setting	
	SEARCH	Direct frequency tuning	
	RETURN	Return	
	BAND	FM/AM switching	
MODE Switch search modes		Switch search modes	
TUNING T UNING T UNING T UNING T UNING		Tuning (up/down)	
0 – 9		Preset channel selection $(1 - 8) /$	
		Direct frequency tuning (0 – 9)	
,	SHIFT Preset channel block selection		
MEMORY Preset memory registration		Preset memory registration	
	TV POWER	TV power on/standby (Default : SONY)	
	TV INPUT	JT Switch TV input (Default : SONY)	

Function

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

The time (default : 30 sec) for which the on-screen display are displayed can be set at menu "TUNER" (☞ page 50). Press △∇
 ▷ to return to the original screen.

□ Presetting radio stations (Manual preset)

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

- Stations can be preset automatically at "Auto Preset" (P page 37). If "Auto Preset" is performed after performing "Manual Preset", the "Manual Preset" settings will be overwritten.
- Tune in the broadcast station you want to preset.
 Press MEMORY.
 Press SHIFT to select the block (A to G) in which the channel (1 to 8 per a block) is to be preset, then press CH +, CH or 1 8 to select

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

the preset number.

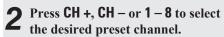
Default settings

Block (A – G) and Channel (1 – 8)	Default Settings		
A1 – A8	87.5 / 89.1 / 98.1 / 107.9 / 90.1 / 90.1 / 90.1 / 90.1 MHz		
B1 – B8	520 / 600 / 1000 / 1400 / 1500 / 1710 kHz, 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		

Specify a name for the preset broadcast station (Preset Name) (Preset Name)

Listening to preset stations

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





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

b-h

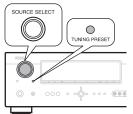
+10 MEMOBY

1 2 3 4

5 6 7 8

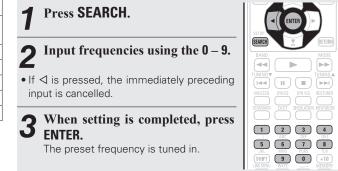
SHIFT

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



Direct frequency tuning

You can enter the receiving frequency directly to tune in.



Simple version

Basic version

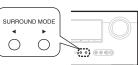
Selecting a listening mode (Surround mode)

This unit can play input audio signals in multi-channel surround mode or in stereo mode. Select a listening mode suitable for the playback contents (cinema, music, etc.) or according to your liking.

Listening Mode

)				nlavback of 2 obannal sources
Input audio signal	Playback	Listening mode			playback of 2-channel sources
2-channel	Surround	Standard playback (ter page 23)	 For 2-channel signal input: Surround-channel signals are created and played with surround playback. For multichannel signal input: The surround signal recorded in source is played as surround playback. (The sound is played according to the settings of the speaker size in "Speaker Config." (27 page 46).) Surround-back-channel or front-height-channel signals that are not recorded in source can be created. 	2 22). 2 Press S surroun multicha	TANDARD to select the d decoder to play back annel sound.
2-channel		DENON original surround playback (IP page 25)	The surround effects suitable for the source type or according to your liking can be selected from the DENON original sound mode and is used for playback.	Which decod Assign" (🖅	er can be selected depends on the settings page 46) or "Speaker Config." (1277 page 46).
2-channel	Stereo	Stereo playback (CP page 25)	 If multichannel signals are input, they are mixed down to 2-channel audio and are played. Subwoofer signals are also output. 		 1 This mode is for 7.1-channel surround using the front height speakers. "PLIIz Height" is displayed. 2 This mode is for 7.1-channel or 6.1
2-channel	Stereo	Direct playback	Sound recorded in source is played as is. • Surround back signals or front height signals are not created. • In this mode, the following items cannot be adjusted. • Tone (127 page 43) • MultEQ [®] (127 page 43)	DOLBA HUIX	surround playback using the surrour speakers. • "PLIIx Cinema", "PLIIx Music"or "PLII» is displayed.
Multi channel 🕞		(t2) page 25)	 Dynamic EQ[®] (☞ page 44) PESTORER (☞ page 45) If a "Small" speaker is used, playback in "Standard playback" mode is recommended. 	DOLBY PLII	 This mode is for 5.1-channel surround p Select this mode if no front height speasurround back speaker is to be used. "PLII Cinema", "PLII Music", "PLII Ga" "Pro Logic" is displayed.
				DTS NEO:6	This mode is for 7.1-channel, 6.1-cha

- Some listening modes cannot be selected, depending on the audio format or number of channels of the input signal. For details, see "Types of input signals, and corresponding surround modes" (F page 64).
- Adjust the sound field effect with the menu "Surround Parameter" (127 page 41) to enjoy your favorite sound mode.



- You can select the listening mode by pressing SURROUND MODE < or SURROUND MODE > on the main unit. Press **SURROUND MODE** I or **SURROUND MODE** and the modes are switched as shown below.
 - 🕞 DIRECT 🖛 STEREO 🖛 STANDARD 🖛 MULTI CH STEREO 🖛 ROCK ARENA 🖛
 - 🗕 VIRTUAL 🔸 MATRIX 🔸 VIDEO GAME 🔸 MONO MOVIE ፋ JAZZ CLUB 🚄

Standard playback

Playing the source (P page 20 -22). Press **STANDARD** to select the surround decoder to play back multichannel sound.



h time **STANDARD** is pressed, the surround mode is switched. ich decoder can be selected depends on the settings of "Pre ign" (😰 page 46) or "Speaker Config." (😰 page 46).

- BY PLIIz *1 This mode is for 7.1-channel surround playback using the front height speakers. • "PLIIz Height" is displayed.
- BY PLIIx *2 This mode is for 7.1-channel or 6.1-channel surround playback using the surround back
- Advanced version • "PLIIx Cinema", "PLIIx Music" or "PLIIx Game"

is displayed. This mode is for 5.1-channel surround playback.

- Select this mode if no front height speaker nor surround back speaker is to be used.
- "PLII Cinema", "PLII Music", "PLII Game" or "Pro Logic" is displayed.
- This mode is for 7.1-channel, 6.1-channel or DTS NEO:6 5.1-channel surround playback using the surround back speakers.
 - "DTS NEO:6 Cinema" or "DTS NEO:6 Music" is displayed.
- *1 This can be selected when "Pre Assign" is set to "Front Height" or "Speaker Config." - "Front Height" is not set to "None".
- *2 This can be selected when "Pre Assign" is set to "Normal" or "Speaker Config." - "S.Back" is not set to "None".

Standard playback

J contents	the mode corresponding to the playback s with the menu "Surround Parameter" – ' (P page 41) to enjoy your favorite sound	Disp Dole
Cinema	This mode is suited for movie sources.	(othe DOLE
Music	This mode is suited for music sources. More sound is sent to the front speakers than in "Cinema" mode.	
Game	This mode is suited for games.	
Pro Logic	This mode is suitable for playback of 2-channel sources recorded with Dolby Pro Logic.	DOLE
Height	* This mode is for the surround decoder "Dolby PLIIz". If the surround decoder is "Dolby PLIIz",	
	another mode cannot be selected. Surround Parameter" – "Front Height" (127 page 42) is the mode is switched to "Height" mode.	DOLE
	d playback of multi-channel sources igital, DTS etc.)	DTS
1 Playing 22).	the source (C page 20 –	DTS- DTS- DTS
	STANDARD to select the decoder to play back	

Select the surround mode while viewing the display on the screen (1297 "Displaying The Currently Playing Surround Mode" at right).

• Which decoder can be selected depends on the input signal, the settings of "Pre Assign" (27 page 46) or "Speaker Config." (27 page 46).

multichannel sound.

In must all must	Surround mode	Disular
Input signal		Display
	DOLBY DIGITAL	DOLBY DIGITAL
DOLBY DIGITAL		DOLBY DIGITAL EX
(other than 2ch) / DOLBY DIGITAL EX	DOLBY DIGITAL + PLIIx CINEMA	DOLBY D + PLIX C
DULBT DIGITAL EX	DOLBY DIGITAL + PLIIx MUSIC	DOLBY D * PLIX M
	DOLBY DIGITAL + PLIIz HEIGHT	DOLBY D + PLIZ
	DOLBY DIGITAL Plus	DOLBY DIGITAL +
	DOLBY DIGITAL Plus + EX	DOLBY D + + EX
	DOLBY DIGITAL Plus + PLIIx	BOLDU B . DIT.
DOLBY DIGITAL Plus	CINEMA	DOLBY D + + PLIX
DOLDT DIGITAL TIUS	DOLBY DIGITAL Plus + PLIIx	DOLBY D + + PLTX
	DOLBY DIGITAL Plus + PLIIz	DOLBY D + + PLIZ
	HEIGHT DOLBY TrueHD	
	DOLBY TrueHD + EX	DOLBY TrueHD
		DOLBY HD +EX
DOLBY TrueHD	DOLBY TrueHD + PLIIx CINEMA	DOLBY HD +PLIX C
	DOLBY TrueHD + PLIIx MUSIC	DOLBY HD +PLIX M
	DOLBY TrueHD + PLIIz HEIGHT	DOLBY HD +PLIZ
		DTS SURROUND
	DTS + PLIIx CINEMA	DTS + PLIIX C
DTS (5.1ch) /	DTS + PLIIx MUSIC	DTS + PLIX M
DTS-ES Discrete 6.1 /	DTS + PLIIz HEIGHT	DTS + PLIIZ
DTS-ES Matrix 6.1 /	DTS + NEO:6	DTS + NEO:6
DTS 96/24	DTS ES MTRX6.1*1	DTS ES MTRX6.1
	DTS ES DSCRT6.1*2	DTS ES DSCRT6.1
	DTS 96/24*3	DTS 96/24
	DTS-HD HI RES	DTS-HD HI RES
	DTS-HD MSTR	DTS-HD MSTR
	DTS-HD + NEO:6	DTS-HD + NEO:6
DTS-HD	DTS-HD + PLIIx CINEMA	DTS-HD + PLIX C
	DTS-HD + PLIIx MUSIC	DTS-HD + PLIX M
	DTS-HD + PLIIz HEIGHT	DTS-HD + PLIZ
	DTS Express	DTS Express
	MULTI CH IN	MULTI CH IN
	MULTI IN + Dolby EX	MULTI *Dolby EX
	MULTI IN + PLIIx CINEMA	MULTI IN +PLIX C
PCM (multi ch)	MULTI IN + PLIIx MUSIC	MULTI IN *PLIX M
	MULTI IN + PLIIz HEIGHT	MULTI IN +PLIZ
	MULTI CH IN 7.1	MULTI CH IN 7.1

[Views on the display]



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

For an input signal that can be reproduced in each surround mode, see "Surround modes and surround parameters" (12) page 62).

*1 This is displayed when the input signal is "DTS-ES Matrix 6.1" and this unit's "AFDM" (12) page 42) setting is "ON".

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

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

DENON original surround playback

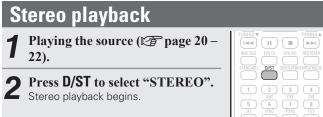
Playingthesource(127 page20–22). [144] 2 Press SIMULATION to select the surround mode. • Each time **SIMULATION** is pressed, the 7 8 surround mode is switched. SHIFT 9 0 (+10) **MULTI CH** This mode is for enjoying stereo sound from all **STEREO** speakers. **ROCK ARENA** This mode is for enjoying the atmosphere of a live concert in an arena. JAZZ CLUB This mode is for enjoying the atmosphere of a live concert in a jazz club. **MONO MOVIE** * 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 spacious feel 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.

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.

NOTE

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



Direct playback

Playing the source (P page 22).

2 Press D/ST to select Direct playback begins. Press **D/ST** to select "DIREC

20 -	TUNING V III III IIIING A MULTED DYN EQ DYN VOL RESTORER
· T "	
1.	1 2 3 4 / ABC DEF GHI 5 6 7 8 JKL 0 PORS TUV CSURT 0 0 49



Advanced version

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

• Speaker installation/connection (Other than 5.1-channel) 27 page 27

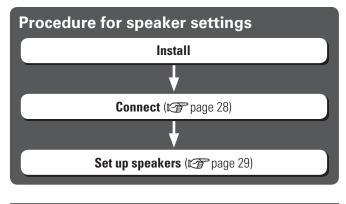
Playback (Advanced operation) 2 page 30

How to make detailed settings page 33

• Operating the connected devices by remote control unit r page 52

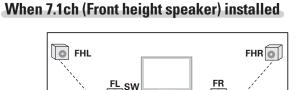
Speaker installation/connection (Other than 5.1-channel)

Here we describe the installation, connection and setup methods for speakers other than 5.1-channel speakers. For the installation, connection and setup methods for 5.1-channel speakers, see "Simple version (Simple setup guide)" (
 regrage 3).



Install

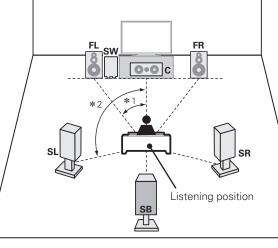
This unit is compatible with Dolby Pro Logic IIz (Pp page 66), which offers an even wider and deeper surround sensation. When using Dolby Pro Logic IIz, install front height speakers.



Listening position *****1 22° – 30° *2 22° - 45° *3 90° - 110°

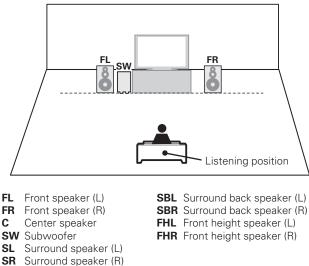
0.0

When 6.1ch (Surround back speaker) installed

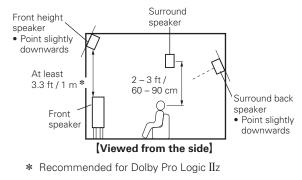


*1 22°-30° *2 90° - 110°

When 2.1ch installed



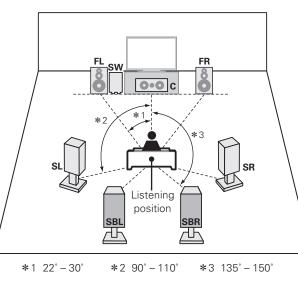
Install the surround back speakers in a position 2 to 3 ft (60 to 90 cm) higher than ear level.



NOTE

It is not possible to use the surround back speakers and front height speakers simultaneously.

When 7.1ch (Surround back speaker) installed



Information

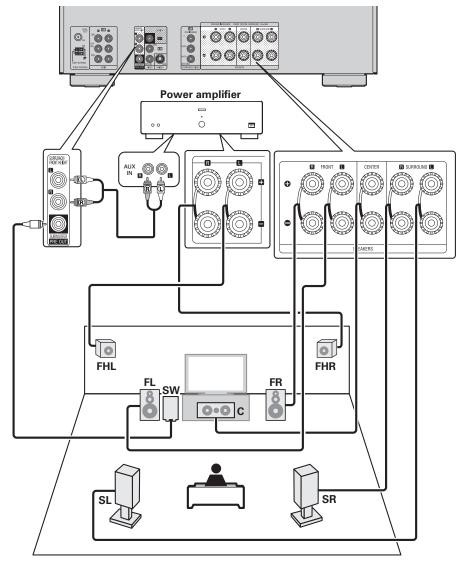
Basic version

Connect

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

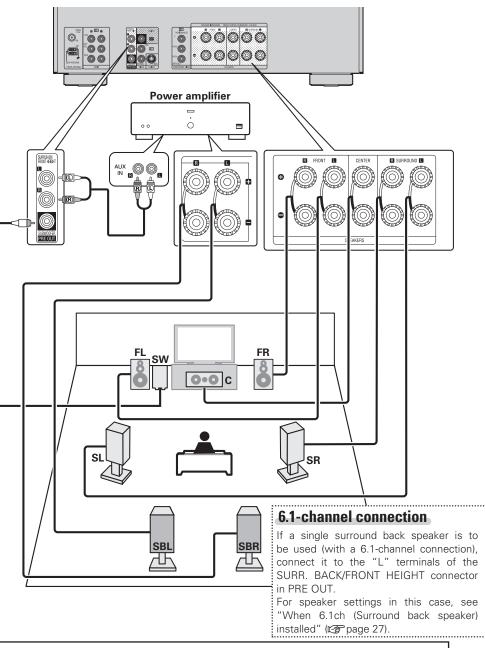
7.1-channel (Front height speaker) connection

- A power amplifier (sold separately) is required for this connection.
- For 7.1-channel (Front height speaker) playback, set "Pre Assign" in "Set up speakers" (Pre 29) to "Front Height".



7.1-channel/6.1-channel (Surround back speaker) connection

- A power amplifier (sold separately) is required for this connection.
- For 7.1-channel (Surround back speaker) playback, set "Pre Assign" in "Set up speakers" (@ page 29) to "Normal".

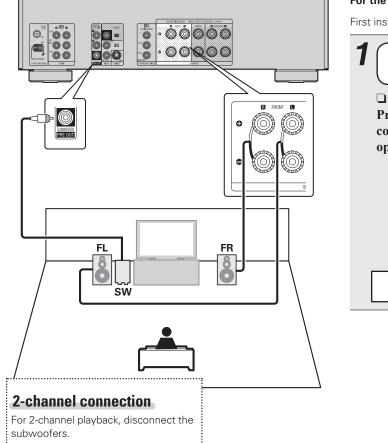


Simple version

Basic version

\Box around items indicate the settings.

2.1-channel/2-channel connection

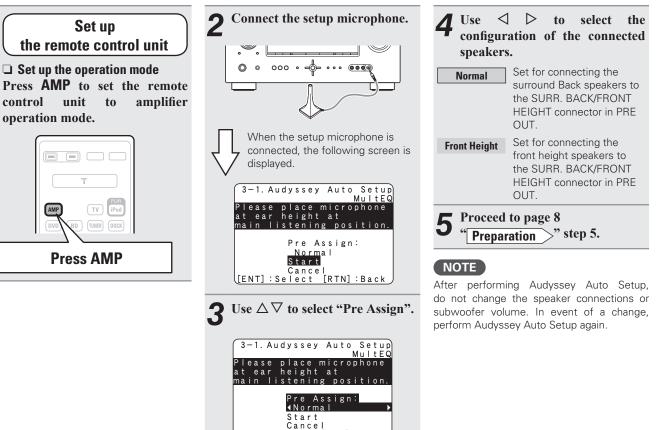


Set up speakers

Here we describe how to set up speakers other than 5.1-channel speakers.

For the method of setting up 5.1-channel speakers, see "Simple version", "Set up speakers (Audyssey[®] Auto Setup)" (Page 6).

First install and connect the speakers to this unit.



[RTN] : Back

Advanced version

.....

Move the cursor (Up/Down/Left/Right)



Playback (Advanced operation)

Playback (Basic operation) (Page 19)

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

- □ HDMI control function (127 page 30)
- □ Sleep timer function (☞ page 31)
- Adjusting the volume of the speakers (page 31)
- **Quick select function** (page 32)
- □ Various memory functions (☞ page 32)

Convenient functions

HDMI control function

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

- **This unit power off can be linked to the TV power off** step.
- You can switch audio output devices with a TV operation.

When you set "Output audio from amp" in the TV audio output setup operation, you can switch the amp power on.

- You can adjust this unit volume in the TV volume adjustment operation.
- You can switch this unit input sources through linkage to TV input switching.
- When playing the player, this unit input source switches to the source for that player.

NOTE

- When "HDMI Control" is set to "ON", it consumes more standby power.
- The HDMI control function controls operations of a TV that is compatible with the HDMI control function. Make sure that the TV and HDMI are connected when you perform HDMI control.
- Some functions may not operate depending on the connected TV or player. Check the owner's manual of each device for details beforehand.
- When "Power Off Control" on the menu is set to "OFF" (127 page 48), this unit is not set to standby even if the connected device is in the standby mode.
- When connection changes are implemented, such as adding connections to HDMI devices, linked operations may be initialized. In this case, you will need to reconfigure the settings.
- When "HDMI Control" is set to "ON", it is not possible to assign an HDMI connector to "TV" at "Input Assign" (127 page 38).

- Set the HDMI output connector corresponding with the HDMI control function.
 - Set "HDMI Control" (B page 48) to "ON".

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

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

• Please consult the operating instructions for the connected equipment to check the settings.

• Carry out steps 1 and 2 should any of the equipment be unplugged.

- Switch the television input to the HDMI input connected to this unit.
- **5** Switch this unit input to the HDMI input source and check if the picture from the player is ok.
- **6** When you turn the TV's power to standby, check that the power of this unit also goes to standby.

.

If the HDMI control function does not operate properly, check the following points.

- Is the TV or player compatible with the HDMI control function?
- Is "HDMI Control" (1 page 48) set to "ON"?
- Is "Power Off Control" (1) page 48) set to "All" or "Video"?
- Are the HDMI control function settings of all equipment correct?

NOTE

Should any of the operations below be performed, the interlocking function may be reset, in which case, repeat steps 2 and 3.

- "Input Assign" "HDMI" (127 page 38) setting has changed.
- There is a change to the connection between the equipment and the HDMI, or an increase in equipment.

Sleep timer function

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

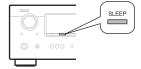
This is convenient for playing sources while going to sleep.

Press SLEEP and display the time you want to set. The "SLEEP" indicator on the display lights. • The time switches as shown below each time SLEEP is pressed. • OFF → 10 min → 20 → 30 → 40 → 50 120 ← 110 ← 100 ← 90 ← 80 ← 70 ← 60 ←

To cancel the sleep timer

Press **SLEEP** to set "OFF". The "**SLEEP**" indicator on the display turns off.

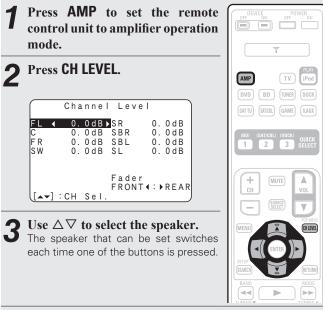
- The sleep timer setting is canceled if this unit's power is set to standby or turned off.
- If **SLEEP** on the main unit is pressed, the same function as with the remote control unit can be obtained.



Adjusting the volume of the speakers

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

□ Adjusting the volume of the different speakers



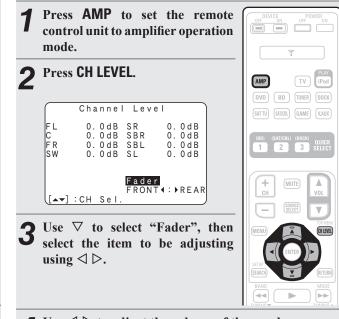
<math>\square Use $\triangleleft \triangleright$ to adjust the volume.

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

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

Adjusting the volume of groups of speakers (Fader function)

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



Advanced version

Basic version

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

Convenient functions

Quick select function

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

□ Saving the settings

• Set the items below to the settings you want to save.

 Input source (P page 19)
 Volume (P page 19)
 Surround mode (P page 23)
 Video Select (P page 39)
 Audyssey Setting (MultEQ[®], Dynamic EQ[®], Dynamic

Volume™) (12 page 43)



(SAT TU) (SAT/CBL) (GAME) (V.AUX)

(DOCK)

Press and hold the desired QUICK SELECT until

"Memory" appears on the display.

The current settings will be memorized.

[Quick	Select	Defaults]	

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

\Box Recalling the settings

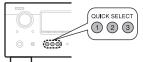
Press OUICK SELECT at which the settings you want to call out are saved. The Q1, Q2 or Q3 indicator illuminates on the display.

Naming quick select settings

See "Quick Select Name" (2 page 50).

NOTE

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





Input sources stored with the quick select function cannot be selected if they have been deleted at "Source Delete" (1277 page 49). In this case, store them again.

Various memory functions

Dersonal memory plus function

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

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

❑ Last function memory

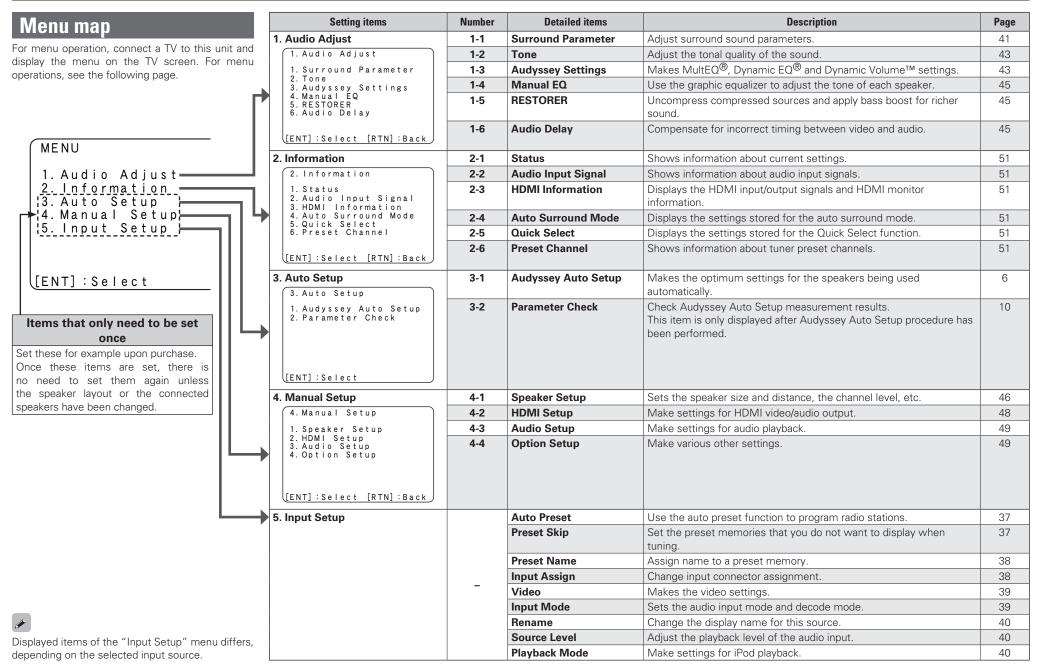
This function stores the settings which were made before going into the standby mode.

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

Simple version

Basic version

How to make detailed settings



33

Information

Examples of on-screen display and front display

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

	On-screen Display	Front Display	Description
Top menu display	MENU 1 Audio Adjus Information Auto Setup Manual Setup 3 [ENT] : Select	3 (Audio Adjust)	 The menu items are displayed here. The selected line is displayed here. The currently selected item is displayed on the display. Use Δ∇ to move to the item you want to set. The number of the current selected setting menu is displayed.
Display when changing settings	1 5 -1.]Input Assign Default HDM Digi Comp BD TV TV SAT/CBL GAME 4 V. AUX 3 (ENT]:Select] [RTN]:Back	BD (HDMII)2	 The number of the current selected setting menu is displayed. Use △▽⊲ ▷ to move to the item you want to set. Press ENTER to set to the mode in which the setting can be made.
	Press ENTER. Press ENTER. Pefault HDMI Digi Comp BD PVD TV SAT/CBL GAME V. AUX U [ENT]: Select [RTN]: Back	Press ENTER.	 Is displayed at the sides of items whose setting can be changed. Use < I> to change to the desired setting.
Display when inputting characters	3 5-4. Rename DVD : TVD O Default 2 [SFT] : a A [SRCH] : KeyBD [ENT] : OK [RTN] : Cancel	DUD COUD (3)	 When < ▷ is pressed, the cursor moves to the left or right. When △ ▽ is pressed at the position at which you want to input the character, the character is input. The number of the current selected setting menu is displayed. For inputting characters on a keyboard screen or with the number buttons on the remote control unit, see page 35.
Display when resetting	2 5-4. Rename DVD : [DVD] 1 Default [▲▼]: Up/Down [ENT]: Select [RTN]: Back	Default Press ENTER. Default? : 4 No	 Press ∇ to select "Default", then press ENTER to set. The number of the current selected setting menu is displayed.

Simple version Example: For changing the input source from "DVD" to "DENON" 1) Place the cursor at "V". **↓**DVD 2 Press 3 twice. "V" changes to "E". 3 Press 6 twice. **♦** DEN "E" is automatically registered, and "D" changes to "N". **Basic version** ④ Press ▷ **♦ DEN** "N" is registered.

(5) Press 6 MND

* +;<=>?[]

1 2 3 4

5 6 7 8 SHIFT 9 0

144

Input "O" (6) Press ⊳.

Input "N".

as shown below.

"O" is registered.

Press 6 twice.

three times.

Using the cursor buttons Display the screen for inputting characters. (Carpage 33 "Menu map") Use $\triangleleft \triangleright$ to set the cursor to the character you want to change. **9** Use $\Delta \nabla$ to change the character, then press **ENTER**. • The types of characters that can be input are [Upper case characters] ABCDEFGHIJKLMNOPORSTUVWXYZ [Lower case characters] abcdefghijklmnopqrstuvwxyz [Symbols] '() * + - . / :; < = > ? [] (SHIFT) [Numbers] 0123456789 (Space) • The input character type can be switched by pressing **SHIFT** while the display name is being changed.

Repeat steps 2 and 3 to rename then press ENTER to register it.

♦ D E N O

♦ D F NO

Information

Inputting characters

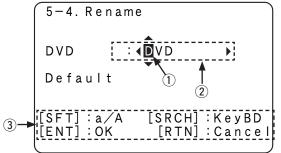
"Preset Name" (rapage 38), "Rename" (rapage 40) and "Quick Select Name" (Program page 50)can be changed as desired. For inputting characters, there are three methods, as shown below.

Method for inputting characters

Method	Operations
Using the number buttons (normal screen)	 Operating with the remote control unit. Multiple characters are assigned to a button, and each time the button is pressed, a character is switched.
Using the cursor buttons (normal screen)	 Operating with the remote control unit or the main unit. Use △∇< ▷ and ENTER to input characters.
Using the keyboard screen	 Operating with the remote control unit. Select a character on the TV screen to input characters.

Normal screen

Display of a normal input screen



- ① Cursor
- (2) Character input section
- (3) Guide for operation buttons

Switching upper- and lower-case characters [SFT] SHIFT • [SRCH] SEARCH Switching to the keyboard screen input

method • [ENT] ENTER Registering an input character • [RTN] RETURN Canceling an input character

Using the number buttons	Using	the	number	button
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- Display the screen for inputting characters. (E page 33 "Menu map")
- Place the cursor at the character to be changed with

 $\triangleleft \triangleright$ and press the number button (0 – 9) until the desired character is displayed.

• The types of characters that can be input are as shown below.

1	1/:	(6) MNO	M N O m n o 6
2 ABC	A B C a b c 2	7 PORS	P Q R S p q r s 7
3 DEF	D E F d e f 3	8 TUV	TUVtuv8
4 GHI	GHlghi4	9 WXYZ	W X Y Z w x y z 9
5 JKL	JKLjkl5	0	0 (Space) '() * +

• The input character type can be switched by pressing SHIFT while the display name is being changed.

• For entering the characters assigned to one number button continuously, press \triangleright to move the cursor to the right after entering a character then enter the next character.

• For entering characters assigned to separate buttons, press the number button continuously. The cursor automatically moves to the next position, and the input character is registered.

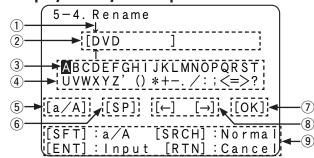
Repeat step 2 to change the name then press ENTER to register it.

♦ DENO (8) Press **ENTER** to register the input source name.

Inputting characters

Keyboard screen

Display of a keyboard input screen



① Cursor

- 2 Character input section
- (3) Cursor
- (4) Keyboard section
- (5) Upper (Symbols)- / lower (Numbers)-case character switching key
- 6 Space key
- OK key
- 8 Cursor keys
- (9) Guide for operation buttons
 - [SFT] SHIFT Switching upper- and lower-case characters
 - [SRCH] SEARCH For switching to the normal screen input method

 - [ENT] ENTER [RTN] RETURN
 - Canceling an input character

For inputting a selected character

Display the screen for inputting characters. (E page 33 "Menu map")

Press **SEARCH** while a normal screen is displayed. A keyboard screen is displayed.

Select a character to be changed. 3

(1) Press $\Delta \nabla \triangleleft \triangleright$ to select "[\leftarrow]" or "[\rightarrow]".

(2) Press ENTER to place the cursor at the character to be changed.

Each time **ENTER** is pressed, the cursor moves by one character.

+1

- 1

[**|**-||-||

Select a character to be input with $\triangle \nabla \triangleleft \triangleright$ then press ENTER.

• The types of characters that can be input are as shown below.

[Upper case characters/Symbols] ABCDEFGHIJKLMNOPQRST UVWXYZ'()*+-./:;<=>? [Lower case characters/Numbers] abcdefghijklmnopqrst uvwxyz[]0123456789

Repeat steps 3 and 4 to rename. 5

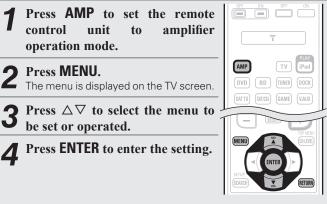
Use $\triangle \nabla \triangleleft \triangleright$ to select "[OK]", then press ENTER. 6

Input Setup

Perform settings related to input source playback.

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

Menu operation



- To return to the previous item, press RETURN,
- Exiting the Menu, press **MENU** while the menu is displayed. The menu display disappears.



Input Setup

Items that can be set with the Input Setup procedure

Auto Preset (🖅 page 37)	Preset Skip (😰 page 37)	Preset Name (🖅 page 38)
5-1. Auto Preset Auto Tuning Preset Station Memory Storing Preset Memory <u>Start</u> [ENT]:Start [RTN]:Back	5-2. Preset Skip Block : ◀A A Block Presets: ON A1 FM 87.50MHz : ON A2 FM 89.10MHz : ON A3 FM 98.10MHz : ON A4 FM107.90MHz : ON A5 FM 90.10MHz : ON A6 FM 90.10MHz : ON A7 FM 90.10MHz : ON A8 FM 90.10MHz : ON	5-3. Preset Name Block: ◀ A ≯ A1FM 87. 50MHz: A2FM 89. 10MHz: A3FM 98. 10MHz: A4FM107. 90MHz: A5FM 90. 10MHz: A6FM 90. 10MHz: ↓ A8FM 90. 10MHz: [ENT]:Select [RTN]:Back
Input Assign (🖙 page 38)	Video (🖅 page 39)	Input Mode (🖅 page 39)
5-1. Input Assign Default HDMI Digi Comp BD 1 DVD 2 TV 01 SAT/CBL 3 C1 1 GAME 4 V.AUX L [ENT]: Select [RTN]: Back	5-2. Video Video Select:∢Source Video Mode : Auto [RTN]:Back	5-3. Input Mode Input Mode : ∢Auto Decode Mode : Auto [RTN]:Back
Rename (r page 40)	Source Level (1) page 40)	Playback Mode (CP page 40)
5-4. Rename BD : ∢BD → Default [▲▼]:Up/Down [∢→]:Rename		5-4. Playback Mode Repeat Mode : ∢OFF ♪ Shuffle Mode : OFF
[RTN] : Back	[RTN] : Back	[RTN] : Back

Important information

□ About the display of input sources

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

BD DVD TV SAT/CBL GAME V.AUX DOCK TUNER

NOTE

Input sources that have been set to "Delete" at "Source Delete" (1277 page 49) cannot be selected.

Auto Preset

Use the auto preset function to program radio stations.

Setting items	Setting details
Start Start the auto preset process.	If an FM station cannot be preset automatically, select the desired station by tuning it in manually, then preset it manually.
TUNER	

Preset Skip

Default settings are underlined.

Set preset ch to be skipped when selecting.

Setting items	Setting details
A – G	1 – 8 : Set by individual preset channels in the currently selected preset
Set the preset channels you	memory block.
do not want to display. You	• <u>ON</u> : Display the selected preset channel.
can set by preset memory	• Skip : Do not display the selected preset channel.
block (A to G) or by preset channel (1 to 8).	If you set "Block Presets" to "Skip", you can skip the preset memory blocks (A to G).
TUNER	



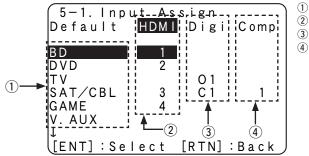
Simple version

Input Setup

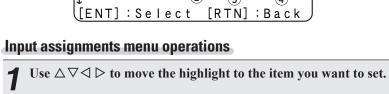
Assign name to a preset mer	nory.	
Setting items	Setting details	
A1 – G8	• Up to eight characters can be input.	
Select the preset channel.	• For character input, see page 35.	
TUNER		
Default	Yes : Reset to the defaults.	
The changed preset name	No : Do not reset to the defaults.	
is returned to the default		
setting.		

Input Assign

Examples of input assign menu screen displays



Input Source
 HDMI input
 Digital audio input
 Component video input



2 Press ENTER, then use $\triangleleft \triangleright$ to select the input connector to be assigned.



3 Press ENTER to enter the setting.

Remote control operation

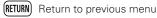
buttons

NOTE

If all "HDMI", "Digital" and "Component" assignment of the Game source are set to "None", Game source cannot be selected with the input source selection.

	Setting details							
HDMI	HDMI 1 / HDMI 2 / HDMI 3 / HDMI 4							
Set this to change the HDMI	None : Do not assign an HDMI input connector to the selected input							
input connectors assigned	source.							
to the input sources.	• At time of purchase, the settings of the different input sources are as							
	 At time of purchase, the settings of the different input sources are as shown below. 							
SAT/CBL GAME	Input	BD	DVD	TV	SAT/	GAME	V.AUX	ООСК
V.AUX DOCK	source				CBL	[]	L] [
	Default	HDMI	HDMI		HDMI	HDMI		
	setting	1	2	None	3	4	None	None
	Mode" (CP p • The audio sign output to the • Even if HDM	gnals in monito	out fror r.		alog and	digital co	onnecto	ors are n
Digital	"DOCK" is e • When "HDM cannot be as	ffective I Contro signed t	when a I" (ເອົ p to "TV"	a control bage 48) i	dock for	iPod is co	onnecte	ed.
•	• When "HDM cannot be as C1 (COAXIAL)	ffective I Contro signed t / 01 (O	when a I" (@ p o "TV" PTICAL	a control bage 48) i .)	dock for ssetto"(iPod is co DN", HDI	onnecte VI input	d. connect
Set this to change the digital input connectors assigned to the input sources.	• When "HDM cannot be as	ffective I Contro signed t / 01 (O assign a urchase	when a I" (@ p o "TV" PTICAL digital	a control bage 48) i) input cor	dock for i s set to "C nnector to	iPod is co DN", HDN	onnecte VI input cted inp	ed. connecte
Digital Set this to change the digital input connectors assigned to the input sources. BD DVD SAT/CBL GAME	When "HDM cannot be as C1 (COAXIAL) None : Do not At time of page	ffective I Contro signed t / 01 (O assign a urchase	when a I" (@ r o "TV" PTICAL digital	a control bage 48) i) input cor	dock for i s set to "C nnector to	iPod is co DN", HDN the sele	onnecte VI input cted inp	ed. connecte
Set this to change the digital input connectors assigned to the input sources. BD DVD TV	When "HDM cannot be as C1 (COAXIAL) None : Do not At time of pu shown below	ffective I Contro signed t / 01 (O assign a urchase v.	when a l" (@pp o "TV" PTICAL digital , the se	a control bage 48) i) input cor ettings o	dock for i s set to "C nnector to f the diffe	iPod is co DN", HDM the sele erent inp	onnecte VI input cted inp ut sourc	ed. connecte out sourc ces are a
Set this to change the digital input connectors assigned to the input sources. BD DVD TV SAT/CBL GAME	When "HDM cannot be as C1 (COAXIAL) None : Do not At time of pu shown below Input source Default	ffective I Contro signed t / O1 (O assign a urchase v. BI	when a l" (P p o "TV" PTICAL digital , the se	a control bage 48) i) input cor ettings o	dock for i s set to "C nnector to f the diffe TV OPTICA	iPod is co DN", HDM the sele erent inp	cted input cted input ut source (CBL	ed. connecte out sourc ces are a GAME





Innut Setun

Setting items				Settir	ng details			
Component	Comp1 (Component video) None : Do not assign a component video input connector to the selected							
Set this to change the component video input								
connectors assigned to the	input source.							
input sources.	• At time of pur shown below.		, the s	ettings	s of the diffe	erent inp	ut source	es are as
BD DVD TV SAT/CBL GAME	Input source	BD	DVD	TV	SAT/ CBL	GAME	V.AUX	DOCK
V.AUX DOCK	Default setting None None None Component 1 None None None							
	 An input source assigned is dis Even if a come "DOCK", "DCC" 	splayed nponer	d as "- It inpu	". t conn	ector is ass	igned to	the inpu	ut source
Default	Yes : Reset to the defaults.							
The "Input Assign" settings	No : Do not res	et to tł	ne defa	ults.				
are returned to the default	If you select "Default" and press ENTER, the message "Default							
settings.			Juan	anu	PIESS LIVIL			Delaul

Video

Default settings are underlined.

Set the source video.

* "BD", "TV" or "GAME" can be set when "HDMI" (127 page 38) or "Component" (127 page 39) has been assigned.

Setting items	Setting details
Video Select Video of another input source is played back	Source : Play the picture and sound of the input source. BD / DVD / TV / SAT/CBL / GAME / V.AUX / DOCK : Select video input source to view. This can be set for individual input sources.
combined with the playing audio.	 "BD", "TV" and "GAME" can be selected only when a component video connector is assigned as an input source.

• It is not possible to select HDMI input signals.

• Input sources for which "Delete" is selected at "Source Delete" (🕼 page 49) cannot be selected.

	input Setup				
Setting items	Setting details				
Video Select (Continued)	 Buttons on the remote control unit or main unit can be used for operations. [Operations with the remote control unit] Press V.SEL until the desired picture appears. To cancel, press V.SEL to select "Source". 				
	 (Operations with the main unit) Press VIDEO SELECT until the desired picture appears. To cancel, press VIDEO SELECT to select "Source". 				
Video Mode Make settings for video processing. BD * DVD TV * SAT/CBL GAME * V.AUX DOCK	 Auto : Process video automatically based on the HDMI content information. Movie : Process video normally. Game : Always process video appropriate for game content. If "Video Mode" is set to "Auto", the mode is switched according to the input contents. 				

Input Mode

Default settings are underlined.

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

Setting items	Setting details
Input Mode	Auto : Automatically detect input signal and perform playback.
Set the audio input modes	HDMI : Play only signals from HDMI input.
for the different input	Digital : Play only signals from digital input.
sources.	Analog : Play only signals from analog input.
	• "HDMI" can be set for input sources for which "HDMI" is assigned a
	"Input Assign" (@ page 38).
	• "Digital" can be set for input sources for which "Digital" is assigned a
	"Input Assign" (😰 page 38).
	• If the input source is set to "TV" or "Game", it cannot be set to "Analog"
	• When digital signals are properly input, the DIG. indicator lights or
	the display. If the DIG. indicator does not light, check the digital input
	connector assignment and the connections.
	• If "HDMI Control" is set to "ON" and a TV compatible with the ARC is
	connected via the HDMI MONITOR connectors, the input mode whose
	input source is "TV" is fixed to ARC.



Move the cursor (Up/Down/Left/Right)



Basic version

Advanced version

Input Setup

Setting items	Setting details
Input Mode (Continued)	Buttons on the remote control unit can be used for operations. Each time INPUT MODE is pressed, the setting is changed as shown below.
	Auto — HDMI — Digital — Analog —
Decode Mode Set the decode mode for input source.	Auto : Detect type of digital input signal and decode and play automatically. PCM : Decode and play only PCM input signals. DTS : Decode and play only DTS input signals.
BD DVD TV SAT/CBL DOCK GAME V.AUX	 This item can be set for input sources for which "HDMI" or "Digital" is assigned at "Input Assign" (P page 38). Normally set this mode to "Auto". Set "PCM" and "DTS" when inputting the corresponding input signal.

Rename

Change the display name of the selected input source.

Setting items	Setting details
Rename	• Up to eight characters can be input.
Change the display name of	• For character input, see page 35.
the selected input source.	
Default	Yes : Reset to the defaults.
The input source name	No : Do not reset to the defaults.
is returned to the default	
setting.	

Source Level

Default settings are underlined.

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

Setting details

-12dB - +12dB (<u>0dB</u>)

The analog input level and digital input level can be adjusted independently for input sources for which "HDMI" or "Digital" is assigned at "Input Assign" (127 page 38).

Playback Mode

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

Setting items	Setting details	
Repeat Make settings for repeat mode.	All : All files are played repeatedly. One : A file being played is played repeatedly. OFF : Repeat playback mode is canceled.	
Shuffle Make settings for shuffle mode.	 When DENON control dock for iPod ASD-1R or ASD-11R is connected Songs : All files are played in shuffle playback mode. Albums : Files in the album are played in shuffle playback mode. OFF : Shuffle playback mode is canceled. 	
	 When DENON control dock for iPod ASD-3N, ASD-3W, ASD-51N or ASD-51W is connected ON : Shuffle playback mode is enabled. OFF : Shuffle playback mode is canceled. 	





Simple version

Basic version

TUNER DOCK GAME V.AUX Default settings are underlined.

Audio Adjust

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

Press **AMP** to set the remote control unit to amplifier operation

The items (parameters) that can be adjusted depend on the signal being input and the currently set surround mode. For details on the adjustable parameters, see "Surround modes and surround parameters" (m page 62).

Menu operation

1

	mode.	
2	Press MENU. The menu is displayed on the TV screen.	
3	Press $ riangle abla$ to select the menu to be set or operated.	DVD BD SATTU SAT/CBL
4	Press ENTER to enter the setting.	
• E:	o return to the previous item, press RETURN . xiting the Menu, press MENU while the menu is displayed. he menu display disappears.	MENU SETUP SEARCH

Items that can be set with the Audio Adjust procedure

~
Surround Parameter (1277 page 41)
Tone (12 page 43)
Audyssey Settings (1) page 43)
Manual EQ (🖅 page 45)
RESTORER (12 page 45)
Audio Delay (12 page 45)

Surround Paramete	Default settings are underlined
Adjust surround sound parameters. It may not be possible to set this item depending on the input signa	
Setting items	Setting details
Mode Set the play modes for the different surround modes.	 In the PLIIx or PLII mode Cinema : Surround sound mode optimized for movie sources. Music : Surround sound mode optimized for music sources. Game : Surround sound mode optimized for games. Pro Logic : Dolby Pro Logic playback mode (PLII mode only). In the PLIIz mode
	Height : Dolby PLIIz Height playback mode.
	□ In the DTS NEO:6 mode
	Cinema : Surround sound mode optimized for movie sources. Music : Surround sound mode optimized for music sources.
	 When "Surround Parameter" – "Front Height" (P page 42) is set t "ON", the "Height" mode is set automatically. 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.	ON : "Cinema EQ" is used. <u>OFF</u> : "Cinema EQ" is not used.
DRC	Auto : Automatic dynamic range compression on/off control according t
Compress dynamic range (difference between loud and soft sounds).	source. This can be set in the Dolby TrueHD mode. Low / Mid / High : These set the compression level. OFF : Dynamic range compression always off.
D.Comp	Low / Mid / High : These set the compression level.
Compress dynamic range (difference between loud and soft sounds).	OFF : Turn dynamic range compression off.
LFE	–10dB – <u>0dB</u>
Adjust the low-frequency effects level (LFE).	 For proper playback of the different sources, we recommend setting to the values below. Dolby Digital sources : "0dB" DTS movie sources : "0dB"

• DTS music sources : "-10dB"

0.0 - 1.0 (0.3)

Information

Remote control operation buttons

Move the cursor)) (Up/Down/Left/Right)



Center Image

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

Setting items	Setting details	Setting items	Setting details
Panorama Assign front L/R signal also to surround channels for wider sound. Dimension Shift sound image center to front or rear to adjust playback balance.	ON : Set. <u>OFF</u> : Do not set. 0 – 6 (<u>3</u>)	S.Back Sets the method of generating of the surround back channel.	 For 2-channel sources ON : The surround back channel is used. OFF : No signal is played from the surround back channels. For Multi-channel sources Set the decoding method for the surround back channel. DSCRT ON : Play the surround back signals included in the 7.1-channel source.
Center Width Assign center channel signal to front left and right channels for wider sound. Delay Time Adjust delay time to control sound stage size.	0 – 7 (<u>3)</u> 0ms – 300ms (<u>30ms</u>)		 MTRX ON : Generate and play the surround back signals from the surround channel signals. ES MTRX*1 : Generate and play the surround back signals from the surround channel signals of the DTS source. ES DSCRT*2 : Play the surround back signals included in the 6.1-channel DTS source. PLIIx CINEMA*3 : Generate and play the surround back signals be
Effect Lev. Adjust effect signal level.	 1 - 15 (10) Set to a lower level if the positioning and sense of phase of the surround signals seems unnatural. 		decoding the signals in the Dolby Pro Logic IIx Cinema mode. PLIIx MUSIC : Generate and play the surround back signals b decoding the signals in the Dolby Pro Logic IIx Music mode. OFF : Do not play the surround back channel.
Room Size Determine size of acoustic environment.	Small : Simulate acoustics of a small room.Medium-S : Simulate acoustics of a medium-small room.Medium : Simulate acoustics of a medium room.Medium-L : Simulate acoustics of a medium-large room.Large : Simulate acoustics of a large room.NOTE		 *1 This can be selected when playing DTS sources. *2 This can be selected when playing DTS sources including a signal t identify discrete 6.1-channel signals. *3 This can be selected when "Speaker Config." – "S.Back" (IP page 47 is set to "2sp".
AFDM (Auto flag detect mode) Detect the source's surround back channel signal and set the optimum surround mode	 "Room Size" does not indicate the size of the room in which sources are played. <u>ON</u>: Set. OFF: Do not set. [Example] Playing Dolby Digital software (with EX flag) When "AFDM" is set to "ON", the surround mode is automatically set to the DOLBY D + PLIIx C mode. 		 This can also be set by pressing STANDARD. If the source being played contains a surround back signal, the decoder type is automatically selected by the AFDM function. Set "AFDM" to "OFF" to switch to your preferred decoder. NOTE If the setting in "Speaker Config." – "S.Back" (C page 47) is "None'
automatically.	 To play in the DOLBY DIGITAL EX mode, set "AFDM" to "OFF" and "Surround Parameter" – "S.Back" to "MTRX ON". Some Dolby Digital EX sources do not include EX flags. If the playback mode does not switch automatically even when "AFDM" is set to "ON", set "Surround Parameter" – "S.Back" to "MTRX ON" or "PLIIx CINEMA". 	Front Height Determine whether to use front height channel.	 "S.Back" is not displayed. ON : Audio is output from the front height speaker. OFF : Audio is not output from the front height speaker. NOTE "Front Height" is displayed with the settings listed below. When "Pre Assign" (P page 46) is set to "Front Height". When the "Speaker Config." – "Front Height" setting (P page 47) is set to other than "None".

• "Front Height" cannot be set if the HD Audio source being played includes a front height channel. In this case, the Front height channel is played back without decoding in PLIIz mode, using the input signal.



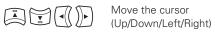
Audio Adjust

<u>d.</u>	Simple
ıp	e version
p,	

Basic version

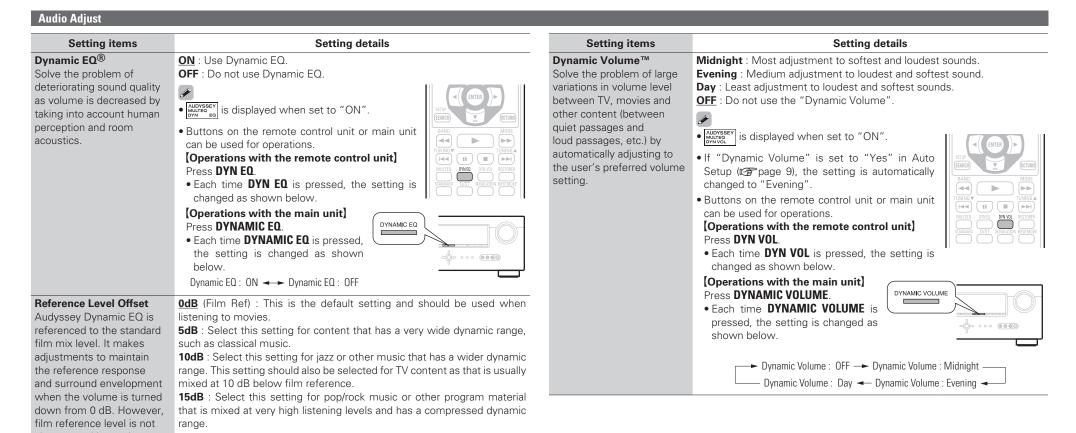
Setting items	Setting details	Audyssey Settings	Default settings are underlined.
Height Gain Control the front height channel volume.	Low : Reduce the front height channel volume. <u>Mid</u> : Front height channel sound is output with standard sound volume. High : Increase the front height channel volume.	Set MultEQ [®] , Dynamic EQ [®] and Dynamic Volume™. These can be selected after Audyssey [®] Auto Setup has been performed. For additional information on Audyssey technology, please see page 66.	
	 NOTE "Height Gain" is displayed for the following settings. When "Pre Assign" (12 page 46) is set to "Front Height". When the "Speaker Config." – "Front Height" setting (12 page 47) is set to other than "None". 	you may not be able to select	to Setup, or if you change the speaker settings after performing Auto Setup, t Dynamic EQ/Dynamic Volume, and "Run Audyssey" may be displayed. Idyssey Auto Setup over again or perform "Restore" (1277 page 10) to return to Auto Setup was run.
	• When surround mode is "PLIIz" or the PLIIz decoder is used.	Setting items	Setting details
Subwoofer Turn subwoofer output on and off.	<u>ON</u> : The subwoofer is used. OFF : The subwoofer is not used.	MultEQ Select one equalizer from three modes, MultEQ	Audyssey : Optimize the frequency response of all speakers. Audyssey Byp.L/R : Optimize frequency response of speakers except front L and R speakers.
Default The "Surround Parameter"	Yes : Reset to the defaults. No : Do not reset to the defaults.	corrects both time and frequency response	Audyssey Flat : Optimize frequency response of all speakers to flat response.
settings are returned to the default settings.		problems in the listening area based on Audyssey	Manual : Apply frequency response set with "Manual EQ" (P page 45). OFF : Turn "MultEQ" equalizer off.
Tone	Default settings are underlined.	Auto Setup calibration. We recommend "Audyssey". MultEQ is the prerequisite	Audyssey", "Audyssey Byp. L/R" and Audyssey Flat" can be selected after Audyssey
Adjust the tonal quality of the		function for Dynamic EQ and Dynamic Volume.	Auto Setup has been performed. "Audyssey" is
Setting items	Setting details		automatically selected after performing Audyssey Auto Setup. When "Audyssey", "Audyssey Byp.
	ON : Allow tone adjustment (bass, treble). OFF : Playback without tone adjustment.		L/R" or "Audyssey Flat" is selected,
to ON and OFF.	"Tone Control" can be set when "Dynamic EQ" (12) page 44) is set to "OFF".		• After running Audyssey Auto Setup, if the Speaker Configuration, Distance, Channel Level, and Crossover Frequency have changed without increasing the number of speakers
	NOTE The tone cannot be adjusted in the direct mode.		 Pressing MULTEQ on the remote control unit
Bass	–6dB – +6dB (<u>0dB</u>)		or the main unit makes this setting.
Adjust low frequency range (bass).			NOTE
Treble	–6dB – +6dB (<u>0dB</u>)		• "MultEQ" and "Manual" cannot be selected when "EQ Customize" is
Adjust high frequency range (treble).	"Treble" can be set when "Tone Control" is set to "ON".		 set to "Not Used" (P page 49). When using headphones, "MultEQ" is automatically set to "OFF".







43



44

Setting is enabled when "Dynamic EQ" is "ON" (P page 44).



Audio Adjust

Manual EQ

Use the graphic equalizer to adjust the tone of each speaker. "Manual EQ" can be set when "MultEQ®" setting (1297 page 43) is "Manual".

Setting items	Setting details
Adjust CH	① Select the speaker tone adjustment method.
Correct the tone of each	All CH : Adjust the tone of all speakers together.
speaker.	L/R CH : Adjust the tone of left and right speakers together.
	Each CH : Adjust the tone of each speaker.
	② Select the speaker.
	③ Select the adjustment frequency band.
	63Hz / 125Hz / 250Hz / 500Hz / 1kHz / 2kHz / 4kHz / 8kHz / 16kHz
	• Select the speakers you want to adjust when "L/R" or "Each" is
	selected.
	④ Adjust the level.
	-20.0dB - +6.0dB (0.0dB)
Base Curve Copy	Yes : Copy.
Copy "Audyssey Flat" curve	No : Do not copy.
from MultEQ.	"Base Curve Copy" is displayed after Audyssey Auto Setup has been
	performed.
Default	Yes : Reset to the defaults.
The "Manual EQ" settings	No : Do not reset to the defaults.
are returned to the default	
settings.	

RESTORER

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

her.	Setting details
	OFF : Do not use RESTORER. Mode 1 (RESTORER 64) : Optimized mode for compressed sources with very weak highs. Mode 2 (RESTORER 96) : Apply suitable bass and treble boost for all compressed sources.
Hz / 16kHz	Mode 3 (RESTORER HQ) : Optimized mode for compressed sources with normal highs.
or "Each" is	 This item can be set with analog signals or when a PCM signal (fs = 44.1/48 kHz) is input. This cannot be set when the surround mode is set to "DIRECT". This item default setting for "iPod" is "Mode 3". All others are set to "OFF".
etup has been	 When set to something other than "OFF", RSTR is displayed. Pressing RESTORER on the remote control unit or the main unit makes this setting.
	→ OFF → Mode 1 → Mode 2 → RESTORER 96)



Audio Delay

Default settings are underlined.

0 0

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

Setting details

<u>0ms</u> – 200ms

- This item can be set within the range of 0 to 100 ms when "Auto Lip Sync" is set to "ON" and when a TV compatible with Auto Lip Sync is connected.
- Store "Audio Delay" for each input source.
- Audio Delay for game mode can be set when "Video Mode" (1277 page 39) is set to "Game".







Manual Setup

Set when changing Audyssey[®] Auto Setup settings, or when changing the audio, video, display or other settings.

- If you change the speaker settings after performing Audyssey Auto Setup, it will not be possible to set MultEQ[®], Dynamic EQ[®] and Dynamic Volume[™] (C page 43, 44).
- Can be used without changing the settings. Please set if necessary.

Menu operation

Press AMP to set the remote control unit to amplifier operation mode. 5 Press MENU. 2 AMP The menu is displayed on the TV screen DVD BD TUNER 3 Press $\Delta \nabla$ to select the menu to be set or operated. Press ENTER to enter the setting. • To return to the previous item, press RETURN. • Exiting the Menu, press MENU while the menu is displayed. The menu display disappears.

Items that can be set with the Manual Setup procedure

Speaker Setup (😰 page 46)	HDMI Setup (🖅 page 48)	Audio Setup (🖙 page 49)
4-1. Speaker Setup 1. Pre Assign 2. Speaker Config. 3. Bass Setting 4. Distance 5. Channel Level 6. Crossover Freq.	4-2.HDMI Setup Auto Lipsync : ON HDMI Audio Out : Amp HDMI Control : OFF	4-3. Audio Setup 1. Auto Surround Mode 2. EQ Customize
[ENT]:Select [RTN]:Back	[RTN] : Back	[ENT]:Select [RTN]:Back

Option Setup (12 page 49)



SAT TU SAT/CBL GAME VAUX

Speaker Setup

Perform when setting the speakers manually or when changing settings made in Audyssey Auto Setup.

- If you change the speaker settings after performing Audyssev Auto Setup, it will not be possible to select MultEQ, Dynamic EQ and Dynamic Volume (P page 43, 44).
- Manual Setup can be used without changing the settings. Please set if necessary.

Setting items	Setting details	
Pre Assign	Normal : Set for connecting the surround Back speakers to the SURR	
Set the speakers connected	BACK/FRONT HEIGHT connector in PRE OUT.	
to this unit.	Front Height : Set for connecting the front height speakers to the SURR BACK/FRONT HEIGHT connector in PRE OUT.	
	A power amplifier (sold separately) is required for this connection.	
Speaker Config.	Front : Set the front speaker size.	
Select speaker configuration and size (bass reproduction	• Large : Use a large speaker that can adequately play back low frequencies.	
capability).	• Small : Use a small speaker that has inadequate playback capacity fo low frequencies.	
NOTE		
Do not use the outward shape of the speaker to	• When "Subwoofer" is set to "No", "Front" is automatically set to "Large".	
determine selection of a "Large" or "Small" speaker. Instead, use the frequencies	 When "Front" is set to "Small", "Center", "Surround", "Surround Back" and "Front Height" can not be set to "Large". 	
set in "Crossover	Center : Set the presence and size of the center speaker.	
Frequency" (P page 48) as the standard for determining	• Large : Use a large speaker that can adequately play back low frequencies.	
bass reproduction capability.	 <u>Small</u>: Use a small speaker that has inadequate playback capacity for low frequencies. 	
	• None : Select when a center speaker is not connected.	
	"Large" is not displayed when "Front" is set to "Small".	
	Subwoofer : Set the presence of a subwoofer.	
	• <u>Yes</u> : Use a subwoofer.	
	• No : Select when a subwoofer is not connected.	
	When "Front" is set to "Small", "Subwoofer" is automatically set to "Yes".	



Simple version

Basic version

Setting items	Setting details	Setting items	Setting details
			-
peaker Config. iontinued)	 Surround : Set the presence and size of the surround speakers. Large : Use a large speaker that can adequately play back low frequencies. Small : Use a small speaker that has inadequate playback capacity for low frequencies. None : Select when the surround speakers are not connected. Image: "When "Surround" is set to "Large", "Surround Back" and "Front Height" can be set to "Large". When "Surround" is set to "None", "Surround Back" and "Front Height" can automatically set to "None". S.Back : Set the presence, size and number of surround back speakers. Large : Use a large speaker that can adequately play back low frequencies. 	Bass Setting Set subwoofer and LFE signal range playback.	 Subwoofer Mode : Select low range signals to be reproduced subwoofer. LFE : The low range signal of the channel set to "Small" speaker size added to the LFE signal output from the subwoofer. LFE+Main : The low range signal of all channels is added to the LF signal output from the subwoofer. ** Subwoofer Mode" can be set when "Speaker Config." – "Subwoofer (Page 46) is set to "Yes". Play music or a movie source and select the mode offering the stronge bass. Select "LFE+Main" if you want the bass signals to always be produced from the subwoofer.
	 Small : Use a small speaker that has inadequate playback capacity for low frequencies. None : Select when the surround back speakers are not connected. 2sp : Use two surround back speakers. 1sp : Use only one surround back speaker. When you select this setting, 		NOTE If "Front" and "Center" for "Speaker Config." are set to "Large", an "Subwoofer Mode" is set to "LFE", no sound may be output from the subwoofers, depending on the input signal or selected surround mode. LPF for LFE : Set LFE signal playback range.
	connect the surround back speaker to the left (L) channel.		• 80Hz / 90Hz / 100Hz / 110Hz / <u>120Hz</u> / 150Hz / 200Hz / 250Hz
	<text><text><section-header><text><text><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></text></text></section-header></text></text>	Distance Set distance from listening position to speakers. Measure beforehand the distance from the listening position to each speaker.	 Unit : Set the unit of distance. Feet / Meters Step : Set the minimum variable width of the distance. 1ft / 0.1ft 0.1m / 0.01m FL / FR / C / SW / SL / SR / SBL * / SBR * / FHL / FHR : Select the speake * When the "Speaker Config." – "S.Back" setting (12 page 47) is set "1sp", "S.Back" is displayed. 0.0ft – 60.0ft / 0.00m – 18.00m : Set the distance. Image 46) and "Speaker Config." (12 page 46) settings. • Default settings : FL / FR / C / SW / FHL / FHR : 12.0 ft (3.6 m) SL / SR / SBL / SBR : 10.0 ft (3.0 m) • Set the difference in the distance between the speakers to less than 2 ft (6.0 m). NOTE Speakers setto "None" in "Speaker Config." (12 page 46) are not displayed. • Yes : Reset to the defaults. • No : Do not reset to the defaults. When you select "Default" and press ENTER, the "Default Setting prompt is displayed. Select either "Yes" or "No", and press ENTER.





Information

Manual Setu

Setting items	Setting details	HDMI Setup
Channel Level Set the volume of the test	Test Tone Start : Output test tone. • FL / C / FR / SR / SBR* / SBL* / SL / FHL / FHR / SW : Select the	Make settings for HD
tone to be the same when it	speaker.	Setting items
s output from each speaker.	* When the "Speaker Config." – "S.Back" setting (P page 47) is set to "1sp", "S.Back" is displayed.	Auto Lip Sync Make automatic
	• -12.0dB - +12.0dB (<u>0.0dB</u>) : Adjust the volume.	compensation for tim shift in audio and vide output.
	 When ⊲ is pressed while the subwoofer volume is set to "-12 dB", the "Subwoofer" setting switches to "OFF". When "Channel Level" is adjusted, the adjusted values are set for all the surround modes. To adjust the channel level separately for the different surround modes, use the operation see page 31. 	HDMI Audio Out Select HDMI audio o device.
	NOTE	HDMI Control
	• Speakers set to "None" in the "Speaker Config." (BP page 46) settings are not displayed.	You can link operatio devices connected to and compatible with
	• When a headphones jack is inserted in the PHONES jack of this unit, the "Channel Level" is not displayed.	Control.
	Default : The "Channel Level" settings are returned to the default settings. • Yes : Reset to the defaults.	
	• No : Do not reset to the defaults.	
Crossover Frequency Set the maximum frequency of the bass signal output irom each channel to	Crossover : Set the crossover frequency. • 40Hz / 60Hz / <u>80Hz</u> / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz	
the subwoofer. Set the Crossover Frequency to suit the bass reproduction capability of the speaker being used.	Advanced : Specify crossover frequency for each speaker. • Front / Center / Surround / S.Back / Front Height : Select the speaker. • 40Hz / 60Hz / 80Hz / 90Hz / 100Hz / 110Hz / 120Hz / 150Hz / 200Hz / 250Hz : Set the crossover frequency.	
	• "Crossover Frequency" can be set when the "Bass Setting" – "Subwoofer Mode" (**** page 47) setting is "LFE+Main", or when you have a speaker that is set to "Small".	
	 Always set the crossover frequency to "80Hz". When using small speakers, however, we recommend setting the crossover frequency to a higher frequency. For speakers set to "Small", sound below the crossover frequency 	Standby Source Sets the HDMI input to put into standby w the power is on.
	 is cut from the sound output. The cut bass sound is output from the subwoofer or front speakers. The speakers that can be set when "Advanced" is selected differ according to the "Subwoofer Mode" setting (127 page 47). When "LFE" is selected, speakers set to "Small" at "Speaker Config." can be set. If the speakers are set to "Large", "Full Band" is displayed and the setting cannot be made. 	Power Off Control Links the power stan of this unit to externa equipment.
	• If set to "LFE+Main", this setting can be made regardless of the speaker size.	

IDMI video/audio output.

Setting items	Setting details		
Auto Lip Sync Make automatic compensation for timing shift in audio and video output.	ON : Compensated. OFF : Not compensated.		
HDMI Audio Out Select HDMI audio output device.	 Amp : Play back through speakers connected to the receiver. TV : Play back through TV connected to the receiver. When the HDMI control function is activated, priority is given to the TV 		
HDMI Control You can link operations with devices connected to HDMI and compatible with HDMI Control.	 audio setting (page 30 "HDMI control function"). ON : Use HDMI control function. OFF : Do not use HDMI control function. When a device that is not compatible with the HDMI control function is connected, set "HDMI Control" to "OFF". Please consult the operating instructions for each connected component to check the settings. Refer to "HDMI control function" (page 30) for more information about the HDMI control function. 		
	 NOTE When "HDMI Control" is set to "ON", it consumes more standby power. If you are not using this unit for an extended period, it is recommended that you unplug the power cord from the power outlet. "HDMI Control" does not work when the power to the equipment is off. Either turn power on or set to standby. The HDMI control function controls operations of a TV that is compatible with the HDMI control function. Make sure that the TV and HDMI are connected when you perform HDMI control. If the "HDMI Control" settings have been changed, always reset the power to connected devices after the change. 		
Standby Source Last : This item is set at the last-used input source. Sets the HDMI input source to put into standby when the power is on. HDMI1 / HDMI2 / HDMI3 / HDMI4 : Put the respective input source. With the power is on. * Standby Source" can be set when "HDMI Control" is set to			
Power Off Control Links the power standby of this unit to external equipment.	All : If power to a connected TV is turned off independently of the input source, power to this unit is automatically set to standby. Video : If power to a connected TV is turned off when the input source is BD / DVD / TV / SAT/CBL / GAME / V.AUX / DOCK, power to this unit is automatically set to standby. OFF : This unit does not link with power to a TV. rower Off Control" can be set when "HDMI Control" is set to "ON".		

Move the cursor (Up/Down/Left/Right)





ENGLISH Manual Setup

Default settings are underlined.

Audio Setup

Default settings are underlined.

Option Setup

	Setting items	Setting details	
used surround	Volume Control	Volume Display : Set how volume is displayed.	
	Set the volume setting.	 <u>Relative</u>: Display —dB (Min), in the range –80.5 dB – 18 dB. 	
s not change		• Absolute : Display in the range 0 (Min) – 99.	
e memory the		• The "Volume Display" setting is applied also to the "Volume Limit" and	
input signals		"Power On Level" display method.	
		• The "Volume Display" setting applies to all zones.	
		Volume Limit : Make a setting for maximum volume.	
		• OFF : Do not set a maximum volume.	
		• –20dB (61) / –10dB (71) / 0dB (81)	
		Power On Level : Define the volume setting that is active when the	
./R" equalizer.		power is turned on.	
		• Last : Use the memorized setting from the last session.	
		• – – – (0) : Always use the muting on condition when power is turned on.	
made when		• -80dB - 18dB (1 - 99) : The volume is adjusted to the set level.	
		Mute Level : Set the amount of attenuation when muting is on.	
izer.		• Full : The sound is muted entirely.	
		 -40dB : The sound is attenuated by 40 dB down. 	
		• –20dB : The sound is attenuated by 20 dB down.	
	Source Delete	BD / DVD / TV / SAT/CBL / V.AUX / GAME / DOCK / TUNER : Select	
nen Audyssey	Remove from the display	input source that is not used.	
	input sources that are not	• <u>ON</u> : Use this source.	
	used.	• Delete : Do not use this source.	
		NOTE	
		Input sources being used in the various zones cannot be deleted.	
		 Input sources being used in the values comes cannot be deleted. Input sources set to "Delete" cannot be selected using SOURCE SELECT. 	
	On-Screen Display	Screensaver : Make screensaver settings.	
	Make the settings related to		
	displays on the TV screen.	screen display if no operation is performed for an approximately 3-minute	
		continuous period. When you press $\Delta \nabla \triangleleft \triangleright$, the screensaver is	
		cancelled and the screen before that screen saver started is displayed.	
		• OFF : Screensaver is not activated.	
		Text : Display the details of operation when switching surround mode,	
		input mode, etc.	
		• ON : Turn display on.	
		• OFF - Turne all real and fi	

Aake settings for audio playback.		Make various other settings.
Setting items	Setting details	Setting items
Auto Surround Mode Make setting for memorizing surround mode setting for each input signal type.	 ON : Memorize settings. Automatically play with the last used surround mode. OFF : Do not memorize settings. Surround mode does not change according to input signal. The auto surround mode function lets you store in the memory the surround mode last used for playing the four types of input signals listed below. 1 Analog and PCM 2-channel signals 2 Dolby Digital and DTS 2-channel signals 3 Dolby Digital and DTS multi-channel signals 4 LPCM Multi-channel signals 	Volume Control Set the volume setting.
EQ Customize Set so that unused equalizer settings are not displayed when MULTEQ is pressed.	 Audyssey Byp. L/R : Set when not using "Audyssey Byp. L/R" equalizer. Used : Use. Not Used : Do not use. Set so that "Audyssey Byp. L/R" settings can be made when Audyssey Auto Setup is performed. Audyssey Flat : Set when not using "Audyssey Flat" equalizer. Used : Use. Not Used : Do not use. Set so that "Audyssey Flat" settings can be made when Audyssey is performed. Manual : Set when not using the "Manual" equalizer. Used : Use. Not Used : Do not use. Set so that "Audyssey Flat" settings can be made when Audyssey Auto Setup is performed. 	Source Delete Remove from the display input sources that are not used.
The equalizer mode in which "Not Used" is selected cannot be stored and recalled in the Quick Select function.		On-Screen Display Make the settings related to displays on the TV screen.

Advanced version





• **OFF** : Turn display off.



Setting items	Setting details	Setting items	Setting details	
On-Screen Display (Continued)	 Master Volume : Display the master volume during adjustment. <u>Bottom</u> : Display at the bottom. Top : Display at the top. OFF : Turn display off. When the master volume display is hard to see when superimposed 	Display Adjust the display brightness of this unit.	Bright : Normal display brightness. Dim : Reduced display brightness. Dark : Very low display brightness. OFF : Turns the display off. Image: Buttons on the main unit can be used for operations. Each time DIMMER is pressed, the setting is changed as shown below. Image: Bright Dim OFF ← Dark ←	
	on movie subtitles, set to "Top". iPod : Set the iPod screen display time when the input source is "DOCK". • Always : Show display continuously. • <u>30sec</u> : Show display for 30 seconds after operation. • 10sec : Show display for 10 seconds after operation. • OFF : Turn display off.			
	 TUNER : Set the tuner screen display time when the input source is "TUNER". Always : Show display continuously. <u>30sec</u> : Show display for 30 seconds after operation. 10sec : Show display for 10 seconds after operation. OFF : Turn display off. 	Setup Lock Protect settings from inadvertent change.	 ON : Turn protection on. OFF : Turn protection off. When canceling the setting, set "Setup Lock" to "OFF". NOTE 	
Remote Preset Codes Search a preset code to register in the remote control unit.	See "Registering preset codes" (😰 page 52).		 When "Setup Lock" is set to "ON", the settings listed below can not longer be changed. Also, "SETUP LOCKED!" is displayed if you attemp to operate related settings. Menu operations Dynamic Volume™ 	
Quick Select Name Change the "Quick Select" display title to one you prefer.	 Rename Label : Select this to change the displayed name for "Quick Select" shown on the screen, as desired. Up to 16 characters can be input. For character input, see page 35. 		RESTORER Channel Level MultEQ® Dynamic EQ®	
	 Template : The display name can be changed by selecting "Operation" and "Device Name" from the previously set templates. 1. Use Δ∇ to select the name of the Quick Select setting you want to change, then press ENTER. 2. Use Δ∇ to select "Template", then press ENTER. 3. Use Δ∇ to select "Operation", then press ENTER. 			

• Watch / Listen to / Play / For

- **4**. Use $\Delta \nabla \triangleleft \triangleright$ to select "Device Name", then press **ENTER**.
 - BD / DVD / TV / Cable TV / Satellite / DVR / VCR / iPod / V.AUX / LD / Movie (When "Operation" is selected to "Watch".)
 - CD / TUNER / iPod / MD / Tape / Music (When "Operation" is selected to "Listen to".)
 - PC / Game (When "Operation" is selected to "Play".)
 - Father / Mother / Son / Daughter / Brother / Sister / Grandfather / Grandmother / Me (When "Operation" is selected to "For".)

Default : The changed "Quick Select Name" is returned to the default setting.

• Yes : Reset to the defaults.

Remote control operation

buttons

• No : Do not reset to the defaults.







Show information about receiver settings, input signals, etc.

Items	Setting details		
Status Show information about current settings.	Select Source / Name / Surround Mode / Input Mode / Decode Mode / Video Select / Video Mode / Content Type etc.		
-	NOTE		
	The information displayed differs according to the input source.		
Audio Input Signal Show information about audio input signals.	 Surround Mode : The currently set surround mode. Signal : The input signal type. fs : The input signal's sampling frequency. Format : The number of channels in the input signal (front, surround, LFE). Offset : The dialogue normalization correction value. Flag : This is displayed when inputting signals including a surround back channel. "MATRIX" is displayed with Dolby Digital EX and DTS-ES Matrix signals, "DISCRETE" with DTS-ES Discrete signals. 		
	Dialogue normalization function		
	This function is automatically activated when playing Dolby Digital sources. It automatically corrects the standard signal level for individual program sources. The correction value can be checked using STATUS . The figure is the corrected value. This cannot be		
	Offset - 4dB changed.		
HDMI Information Show information about	HDMI Signal Information • Resolution / Color Space / Pixel Depth		
HDMI input/output signals	HDMI Monitor Information		
and monitor.	Interface / Suport Resolution		
Auto Surround Mode Show information about auto surround mode settings.	Analog/PCM / Digital 2ch / Digital 5.1ch / Multi Ch		
Quick Select Show information about "Quick select function" (1237 page 32) settings.	Quick Select 1 / Quick Select 2 / Quick Select 3 • Name / Input Source / Video Select / Volume Level / MultEQ [®] / Dynamic EQ [®] / Dynamic Volume [™] / Analog/PCM / Digital 2ch / Digital 5.1ch / Multi Ch		
Preset Channel Show information about preset channels.	A / B / C / D / E / F / G A1 – A8 / B1 – B8 / C1 – C8 / D1 – D8 / E1 – E8 / F1 – F8 / G1 – G8		



Operating the connected devices by remote control unit

Registering the supplied preset codes in the remote control unit enables you to operate devices made by other manufacturers.

Operating AV equipment

Press the input source select button (© page 19).

The operation mode of the remote control unit is switched as shown in the table.

OFF OFF ON OFF ON
Ē
AMP TV PLAY iPod
DVD BD TUNER DOCK SATTU SAT/CBL GAME V.AUX
(BD) (SAT/CBL) (DOCK) QUICK 2 3 SELECT
CH MUTE VOL
INTERNU CHILEVE

Input source select buttons	Input source of this unit	Devices controllable with the remote control unit (Operation mode)
AMP	-	This unit (amplifier operation)
BD *	BD	Device registered on the BD button
DVD *	DVD	Device registered on the DVD button
TV *	TV	Device registered on the TV button
(SAT/CBL) *	SAT/CBL	Device registered on the SAT/CBL button
GAME) *	GAME	Device registered on the GAME button
(V.AUX) *	V.AUX	Device registered on the V.AUX button
TUNER	TUNER	Radio of this unit
iPod	DOCK	Control dock for iPod
DOCK	DOCK	Control dock for iPod

* If a preset code is registered for this button, the remote control unit of this unit can control another devices.

NOTE

If the mode of the remote control unit is set to other than ampoperation mode, press **AMP** to switch the remote control unit to the amp-operation mode to perform the following operations:

- For menu operation by pressing **MENU**
- For setting the channel level of the unit by pressing CH LEVEL
- For turning power in each device on or off by pressing **DEVICE ON** or **DEVICE OFF**.

2 Operate this unit or the device whose input source is switched.

- For details, refer to the operating instructions for each device. For operations of iPod and TUNER, see the following pages.
- iPod (C page 21)
- TUNER (😰 page 22)

Registering preset codes

When preset codes are registered in the included remote control unit, it can then be used to operate any devices you have, such as DVD players or TVs made by different manufacturers.

In this menu, you can search and display the preset codes that can be preset in the included remote control unit.

Buttons used for operating the devices

1 DEVICE ON, DEVICE OFF

- For switching power of each device on or off.
- (2) $\Delta \nabla \triangleleft \triangleright$, **ENTER**, **RETURN** For menu operation of each device.
- ③ **MENU**, **SETUP**, **TOP MENU** For displaying the menu of each device.
- ④ ▶, ■, Ⅱ, ◄◄, ▶▶, I◄◄, ▶▶I
- (5) Number button (0 9, +10)
- 6 CH +, CH –
- **⑦ TV POWER, TV INPUT**
- For operating a TV
- This button is enabled in any mode.

For details on operation with the remote control unit, see pages 21 to 22, 54, and 55.

Default settings for preset codes

The devices shown below are registered for each input source button as default. Settings can be changed according to the devices to be used.

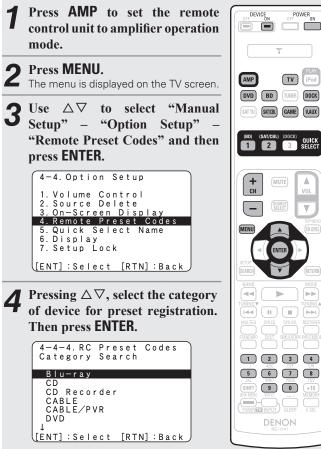
Input source select buttons	Category	Brand	Preset code
BD	Blu-ray Disc player	DENON	32258
DVD	DVD player	DENON	32134
TV	Television	SONY	10810
SAT/CBL	Satellite set top box	DirecTV	01377
GAME	Cable set top box	Motorola	01376
V.AUX	DVD player	DENON	32134
DOCK *	Control dock for iPod	DENON	42517

* If a control dock for iPod is not to be used, the preset code for another device can be set to **DOCK**.

NOTE

- The preset code cannot be registered to **TUNER**.
- Do not register the preset code to **iPod**.
- This button also functions as the Play button for an iPod.

Registering preset codes



5 Pressing $\Delta \nabla$, select the first character of the brand 0 Ο name. Then press ENTER. V.AUX, GAME or TV). Brand Search - DVD -"TV/VCR" can be registered. A DOCK В code for **TV** can be registered. C D F 9 [ENT]:Select [RTN]:Back • The first character is displayed as 1, A to Z. (Initials for the brand are displayed for each category.) For brand names that start with numbers, select "1". 6 Pressing $\Delta \nabla$, select the brand name. Then press ENTER. Brand Brand [1/1] - DVD Setup Remote Daewoo Dantax Denon Disney DSE Durabrand • When the code is registered: l[ENT]:Select [RTN]:Back • When there are several pages of brand names, the pages can be • When the code is not registered correctly: switched by pressing the remote control unit's CH + or CH -. from step 8 again. NOTE • When an input number is not correct: If the desired brand name is not listed, the supplied remote control unit cannot control the device. Use the remote control unit supplied 8 again. with the device to be used. The procedures for registering remote control codes and remote control preset registration are displayed. \rightarrow Go to step 12. Category :DVD \rightarrow Go to step 13. DENON Brand Code [1/3] : 30490 Setup Remote 1. Press [Source] button. 2. Press and Hold 3sec. both [PowerON] [DeviceON]

3. Input Code with [0-9] 4. Press any key to check device [e.g. DeviceON] [QUICK1]:OK [QUICK2]:NG

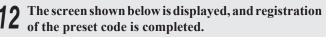
Press the input source button on which the preset code is to be registered (DVD, BD, SAT/CBL, DOCK. • For TV, only the preset code for the categories "TV", "TV/DVD", or • For "TV", "TV/DVD", or "TV/VCR" categories, only the preset Hold POWER ON and DEVICE ON pressed simultaneously for more than 3 seconds. The signal transmission indicator flashes twice. \wedge Enter a five-digit code using 0 - 9. Press the buttons with an interval less than 10 seconds. Category : DVD DENON Code [1/3]: 30490 1. Press [Source] button. 2. Press and Hold 3sec. both [PowerON] [DeviceON] 3. Input Code with [0-9] 4. Press any key to check device [e.g. DeviceON] [QUICK1]:OK [QUICK2]:NG \rightarrow The signal transmission indicator flashes twice. \rightarrow The signal transmission indicator slowly flashes once. Perform

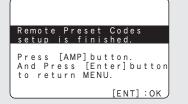
 \rightarrow Press **POWER ON** once then perform the operations from step

Operate the device being used to check the operation.

- If the device is operating, press QUICK SELECT 1.
- If the device is not operating, press QUICK SELECT 2.

Registering preset codes





• The menu screen is retrieved. Press AMP then ENTER.



\cup	(L)
Selected code is not matched. Please try other codes	Sorry. your remote is not supported. This function can not be used for your device Press [AMP] button. And Press [Enter] button to return MENU. [ENT] : OK
• The screen is displayed for 3	

seconds, then the next preset registration screen is displayed automatically.

[If screen 1] is displayed]

The device may be operating with the preset code displayed next. The preset registration screen is displayed. Repeat steps 8 to 11.

[If screen 2 is displayed]

The device cannot be controlled with the remote control unit supplied with this unit. Use the remote control unit supplied with the device to be used. The menu screen is retrieved. Press AMP then ENTER.

1º

Some manufacturers use more than one type of remote control code. Preset codes to change the number and verify correct operation.

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

Operating components

The supplied remote control unit can control a component other than this unit.

1 Switch the input source (<i>P</i> page 19).	
2 Operate the component.	AMP TV PLAY
• For details, refer to the component's operating instructions.	DVD BD TUNER DOCK

□ Blu-ray Disc player / HD-DVD player / **DVD** player / **DVD** recorder operation

(80)

CH CH

	Operation buttons	Function
	DEVICE ON	Power on *
T	DEVICE OFF	Power standby *
	CH +, –	Switch channels (up/down)
	MENU	(Popup) Menu
autoki 3 select	TOP MENU	Top menu
3 SELECT		Cursor operation
	ENTER	Enter setting
	SETUP	Setup
TEP MEMU (# LEVEL	RETURN	Return
		Manual search
RETURN		(fast-reverse/fast-forward)
		Playback
		Auto search (cue)
	II	Pause
4 GH 8 TW +10 MEMORY		Stop
8 71W +10 MENOT	0 – 9, +10	Select title, chapter or channel
EEP V.SEL	0 - 3, +10	selection
	TV POWER	TV power on/standby (Default : SONY)
	TV INPUT	Switch TV input (Default : SONY)

CD player / CD recorder operation

1 2 3 9 0

DENON

DEVICE POWER	Operation buttons	Function
	DEVICE ON	Power on *
	DEVICE OFF	Power standby *
AMP TV iPod DVD BD TUNER DOCK		Cursor operation
SATTU SATAL GAME VALL	ENTER	Enter setting
(BDI (SATICELI IDDEX) 1 2 3 SELECT		Manual search (fast-reverse/fast-forward)
	•	Playback
		Auto search (cue)
MENU (SHEND	11	Pause
		Stop
	0 – 9, +10	Track selection
	TV POWER	TV power on/standby (Default : SONY)
	TV INPUT	Switch TV input (Default : SONY)

□ Digital video recorder (PVR) / video cassette recorder (VCR) operation

	Operation buttons	Function
	DEVICE ON	Power on *
· · · · · · · · · · · · · · · · · · ·	DEVICE OFF	Power standby *
AMP TV iPod DVD BD TUNER DOCK	CH +, -	Switch channels (up/down)
ATTU SATCHI GAME VANK	MENU	Menu
IBDI (SATICIBA) (DOCK) QUIECK		Cursor operation
1 2 3 SELECT	ENTER	Enter setting
	SETUP	Setup
	RETURN	Return
		Manual search
		(fast-reverse/fast-forward)
		Playback
		Auto search (cue)
	II	Pause
		Stop
1 2 3 4 AB2: 017 5H 5 6 7 8 MAD: 24155 1D7 9 0 410 MEMO 24155 1D7 MEMO 24155 1D7 MEMO 24155 1D7 MEMO 2415	0 0 10	Select title, chapter or channel
302 MNO FOLS TW SHFT 9 0 410 KINENU WITZ WITZ MANDAR	0 – 9, +10	selection
		TV power on/standby (Default : SONY)
BC-1147	TV INPUT	Switch TV input (Default : SONY)

Simple version

Basic version

TV operation

ſ

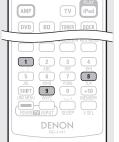
	Operation buttons	Function
	DEVICE ON	Power on *
	DEVICE OFF	Power standby *
AMP TV iPod	CH +, –	Switch channels (up/down)
SATTU SATER GAME VALK	MENU	Menu
(BD) (SATI/CBL) (DOCK) OUICK		Cursor operation
1 2 3 SELECT	SETUP	Setup
+ MUTE A	ENTER	Enter setting
	RETURN	Return
		Manual search
		(fast-reverse/fast-forward)
		Playback
		Auto search (cue)
	II	Pause
		Stop
1 2 3 4 . J ABC 1057 GH 5 6 7 8 JUL WIE 17075 T07 SMIT 9 0 110 MXX72	0 – 9, +10	Channel selection
5 6 7 8 JEL WE FOR 1 107 SHIFT 9 0 +10 REMETU REFE	TV POWER	TV power on/standby (Default : SONY)
	TV INPUT	Switch TV input (Default : SONY)
00.000		

Operating components

Resetting the remote control unit

Settings for the remote control unit are returned to the default setting.

1	Press and hold POWER ON and DEVICE ON for at least 3 seconds. The signal transmission indicator flashes twice.	The second secon
2	Press 9, 8 and 1, in that order. The signal transmission indicator flashes four times. All the settings are restored to their defaults.	AMP TV Field DVD BD TUNER DOCK DVD BD TUNER DOCK 1 2 3 4 7 2 3 6 1 2 67 8 3 4 7 0 3 4 70 10 SHE7 8 0 4



□ Set top box for satellite (SAT) / cable (CBL) / IP TV operation

OFF DEVICE OFF ON OFF	Operation buttons	Function
	DEVICE ON	Power on *
	DEVICE OFF	Power standby *
AMP TV iPod	CH +, -	Switch channels (up/down)
SATTU SATER GAME VALK	MENU	Menu
(BD) ISAU(CBL) (BOCK) QUICK		Cursor operation
1 2 3 SELECT	ENTER	Enter setting
	SETUP	Guide
	RETURN	Return
		Manual search
		(fast-reverse/fast-forward)
	•	Playback
		Auto search (cue)
		Pause
		Stop
1 2 3 4 JABC 06F 6H 5 6 7 8 JUN POS TV	0 – 9, +10	Channel selection
5 6 7 8 J4L MWC PDES TUY SMIFT 9 0 +10 MKMCC MIMCON	TV POWER	TV power on/standby (Default : SONY)
	TV INPUT	Switch TV input (Default : SONY)

* This may power some devices on/standby.



Information

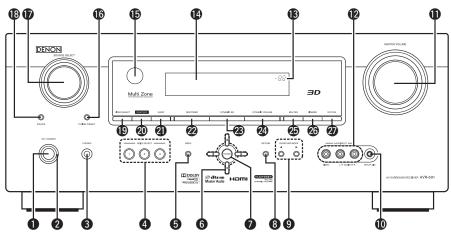
Here, we list various information related to this unit. Please refer to this information as needed.

- Part names and functions Page 57
- Other information 🖙 page 61
- Troubleshooting page 68
- Specifications 😰 page 70
- lndex 🕼 page 71

Part names and functions

Front panel

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



D Power operation button

Turns power to this unit on and off (standby).

2 Power indicator (11)

3 Headphones jack

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

NOTE

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

4 QUICK SELECT buttons
5 MENU button (36)
6 Cursor buttons (△▽< ▷)
7 ENTER button
8 RETURN button (34 – 36)
9 SURROUND MODE buttons (23, 70)
(D) SETUP MIC jack
MASTER VOLUME control knob (19)

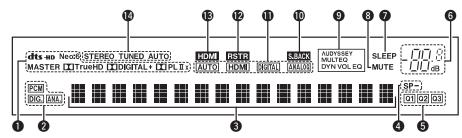
V.AUX INPUT connectors (17) Remove the cap covering the connectors when

vou want to use them. 000 • = • • • •

B Master volume indicator

Display	
BRemote control sensor	
TUNING PRESET button	(22)
SOURCE SELECT knob	(19)
B SOURCE button	(19)
VIDEO SELECT button	(39)
lPod PLAY button	
Sleep timer button (SLEEP)	(31)
2 RESTORER button	(45)
OYNAMIC EQ® button	(44)
2 DYNAMIC VOLUME [™] button ·	
BMULTEQ [®] button	(43, 49)
OIMMER button	
STATUS button	(51)

Display



Decoder indicators

These light when the respective decoders are operating.

2 Input signal indicators

3 Information display

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

4 Front speaker indicator

Lights when audio signals are being output from the speakers.

5 QUICK SELECT indicators

The indicator corresponding to the memory for which Quick Select functionis set, lights ("Quick select function" (r page 32)).

6 Master volume indicator

When performing setting operations, displays the menu number.

7 Sleep timer indicator

This lights when the sleep mode is selected (CP page 31).

8 MUTE indicator

This lights when the mute mode is selected (🕼 page 19).

AUDYSSEY MULTEQ indicators

Lighting is as follows, depending on the setting of "Dynamic EQ" (reprage 44) and "Dynamic Volume" (Bp page 44).

AUDYSSEY MULTEQ	When	"Dynamic		and
DYN VOL	"Dynam	ic Volume"	are "ON".	

AUDYSSEY MULTEQ DYN EQ When "Dynamic EQ" is "ON" and "Dynamic Volume" is "OFF".

AUDYSSEY When "Dynamic EQ" and MULTEQ "Dynamic Volume" are "OFF".

D Surround back indicator

Lights when audio signals are being output from the surround back speakers (P page 47).

Input mode indicators

Set the audio input modes for the different input sources (🖅 page 39).

DRESTORER indicator

This lights when the RESTORER mode is selected (Pr page 45).

B HDMI indicator

This lights when playing using HDMI connections.

1 Tuner reception mode indicators

These light according to the reception conditions when the input source is set to "TUNER". STEREO: In the FM mode, this light when

receiving analog stereo broadcasts. **TUNED:** Lights when the broadcast is properly

tuned in.

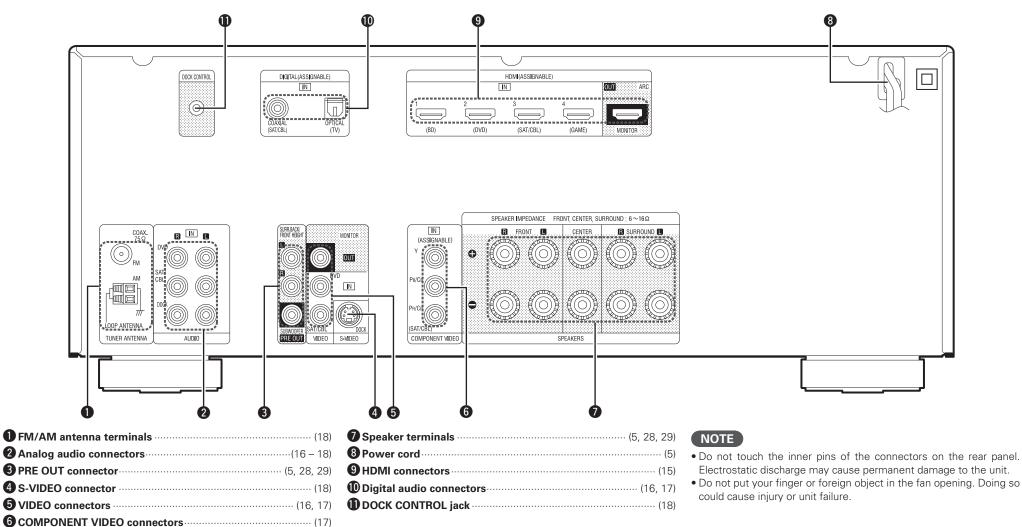
AUTO: This light when in the auto tuning mode.

Advanced versior

Simple version

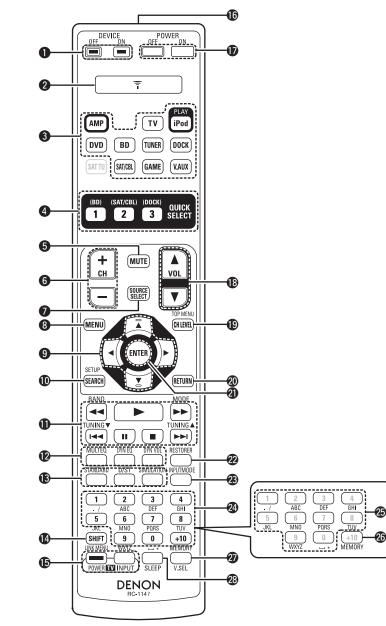
Rear panel

See the page indicated in parentheses ().



Remote control unit

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

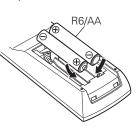


DEVICE power buttons	2 ENTER button
2 Signal transmission indicator(53)	2 RESTORER button (45)
3 Input source select buttons (19)	(39) INPUT MODE button
4 QUICK SELECT buttons	2 Number buttons
Muting button (MUTE) (19)	Character buttons (35)
6 Channel buttons (CH) (22, 54)	26 MEMORY button (22)
SOURCE SELECT button(19)	Video select button (V.SEL)
3 MENU button (36)	Sleep timer button (SLEEP)
9 Cursor buttons (△▽⊲ ▷)	NOTE
(D) SEARCH button	The SAT TU button cannot be used.
 ● System buttons	
 Tuner system buttons	
 Surround mode buttons (23) STANDARD button Direct / Stereo button (D/ST) DSP simulation button (SIMULATION) 	
W SHIFT button (22, 35)	
(TV POWER / INPUT) (55)	
Remote control signal transmitter	
Power buttons (POWER ON / OFF) (6, 11)	
Baster volume control buttons (VOL) (19)	
Channel level button (CH LEVEL)(31)	
2 RETURN button	

Remote control unit

Inserting the batteries

- Slide the rear lid in the direction of the arrow and remove it.
- ② Load the two batteries properly as indicated by the marks in the battery compartment.



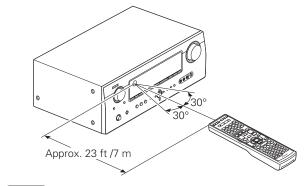
3 Put the rear cover back on.

NOTE

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

Operating range of the remote control unit

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



NOTE

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

Other information

- □ Trademark information (☞ page 61)
- 🖵 Surround (🖙 page 62)
- □ Explanation of terms (☞ page 66)

Trademark information

This product uses the following technologies:

TRUETC PRO LOGIC IIZ	Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.
e dts-нр Master Audio	Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS and the Symbol are registered trademarks, & DTS-HD, DTS-HD Master Audio, and the DTS logos are trademarks of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.
нәті	HDMI, the HDMI Logo and High- Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.
AUDYSSEY MULTEQ DYNAMIC VOLUME	Manufactured under license from Audyssey Laboratories [™] . U.S. and foreign patents pending. Audyssey MultEQ [®] is a registered trademark of Audyssey Laboratories. Audyssey Dynamic EQ [®] is a registered trademark of Audyssey Laboratories. Audyssey Dynamic Volume [™] is a trademark of Audyssey Laboratories.
Made for iPod	 iPod is a trademark of Apple Inc., registered in the U.S. and other countries. iPhone is a trademark of Apple Inc. The iPod may only be used to copy or play content that are not copyrighted or content for which copying or playback is legally permitted for your private use as an individual. Be sure to comply with applicable copyright legislation.

Surround

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

Surround modes and surround parameters

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

Symbols in the table

○ This indicates the audio output channels or surround parameters that can be set.

🔘 This indicates the audio output channels. The output channels depend on the settings of "Speaker Config." (127) page 46).

	Channel output						Surround Parameter (1277 page 41)									
Surround mode (🎓 page 23)	Front L/R	Center	Surround L/R	Surround Back L/R	Front Height L/R	Subwoofer	Mode (1237 page 41)	Cinema EQ. * 5 (@ page 41)	DRC * 9 (1237 page 41)	D. Comp * 10 (🏹 page 41)	LFE * 11 (1237 page 41)	Delay Time (🖅 page 42)	Effect Lev. (🏹 page 42)	Room Size (1297 page 42)		
DIRECT (2channel)	0					◎*3			0	0						
DIRECT (Multi-channel)	0	\bigcirc	0	©*1	©*1	\bigcirc			0	0	0					
STEREO	0					\bigcirc			0	0	0					
MULTI CH IN	0	\bigcirc	0	0	◎*2	\bigcirc		0			0					
DOLBY PRO LOGIC IIz	0	O	0		O	\bigcirc	○*4	0	0	0						
DOLBY PRO LOGIC IIx	0	\bigcirc	0	0		\bigcirc	0	○*6	0	0						
DOLBY PRO LOGIC II	0	O	0			\bigcirc	0	○*7	0	0						
DTS NEO:6	0	\bigcirc	0	0		\bigcirc	0	○*6	0	0						
DOLBY DIGITAL	0	\bigcirc	0	0	©*2	\bigcirc		0*8		0	0					
DOLBY DIGITAL Plus	0	\bigcirc	0	0	©*2	\bigcirc		0*8		0	0					
DOLBY TrueHD	0	O	O	0	◎*2	\bigcirc		0*8	0		0					
DTS SURROUND	0	\bigcirc	0	0	⊚*2	\bigcirc		0*8		0	0					
DTS 96/24	0	\bigcirc	0	0	⊚*2	\bigcirc		0*8		0	0					
DTS-HD	0	\bigcirc	0	0	⊚*2	\bigcirc		0*8		0	0					
DTS Express	0	O	0	0	⊚*2	\bigcirc		0*8		0	0					
MULTI CH STEREO	0	\bigcirc	0	0	⊚*2	\bigcirc				0	0					
ROCK ARENA	0	O	0	0	◎*2	\bigcirc				0	0		0	0		
JAZZ CLUB	0	\bigcirc	0	0	⊚*2	\bigcirc				0	0		0	0		
MONO MOVIE	0	O	0	0	⊚*2	\bigcirc				0	0		0	0		
VIDEO GAME	0	\bigcirc	0	0	⊚*2	\bigcirc				0	0		0	0		
MATRIX	0	\bigcirc	0	0	©*2	O				0	0	0				
VIRTUAL	0					©*3				0	0					

*1 A signal for each channel contained in an input signal is output as audio.

*2 If "Surround Parameter" – "Front Height" (🕼 page 42)is set to "ON", sound is output from the front height speakers.

*3 Only when "Subwoofer Mode" is set to "LFE+Main" (12 page 47), sound is output from the subwoofer.

*4 If this surround mode is selected, only the "Height" mode setting is available for "Surround Parameter" - "Mode" (127 page 41).

*5 For HD Audio whose sampling frequency of an input signal is more than 96kHz, this sound parameter cannot be set.

*6 This item can be selected when "Surround Parameter" – "Mode" (127 page 41) is set to "Cinema".

*7 This item can be selected when "Surround Parameter" – "Mode" (Page 41) is set to "Cinema" or "Pro Logic".

*8 This item cannot be set when "Surround Parameter" – "S.Back" (P page 42) is set to "PLIIx Music".

*9 This item can be selected when a Dolby TrueHD signal is played.

*10 This item can be selected when a Dolby Digital or DTS signal is played.

*11 This item can be selected when a Dolby Digital or DTS signal or DVD-Audio is played.

	s s s s s s s s s s s s s s s s s s s												Surround		
				Surroun	id Parameter (🖙	page 41)									Sim
	AFDM		Front Height			PRO LO	GIC II/IIx Music m	ode only	NEO:6 Music mode only	Tone	Audyssey	Settings * 20 (🖙	page 43)	RESTORER	Simple v
Surround mode (🎓 page 23)	* 12 (12) (12) page 42)	S.Back (1297 page 42)	* 13 (1237 page 42)	Height Gain (🖅 page 43)		Panorama (🖅 page 42)	Dimension (🖅 page 42)	Center Width (1297 page 42)	Center Image (1297 page 41)	* 15 (1237 page 43)	MultEQ [®] (1297 page 43)	Dynamic EQ [®] ★17 (© page 44)	Dynamic Volume™ ★ 18 (1297 page 44)	* 19 (🖅 page 45)	version
DIRECT (2 channel)					○*3										
DIRECT (Multi-channel)															
STEREO										0	0	0	0	0	
MULTI CH IN	0	0	0	○*14						0	0	0	0		Basic
DOLBY PRO LOGIC IIz			0	0						0	0	0	0	0	ic \
DOLBY PRO LOGIC IIx		0				0	0	0		0	0	0	0	0	version
DOLBY PRO LOGIC II		0	0			0	0	0		0	0	0	0	0	SIO
DTS NEO:6		0							0	0	0	0	0	0	-
DOLBY DIGITAL	0	0	0	○*14						0	0	0	0		
DOLBY DIGITAL Plus	0	0	0	○*14						0	0	0	0		
DOLBY TrueHD	0	0	0	○*14						0	0	0	0		
DTS SURROUND	0	0	0	○*14						0	0	0	0		
DTS 96/24	0	0	0	○*14						0	0	0	0		
DTS-HD	0	0	0	○*14						0	0	0	0		
DTS Express	0	0	0	○*14						0	0	0	0		Þ
MULTI CH STEREO		0	0							0	0	0	0	0	Advanced
ROCK ARENA		0	0							○*16	0	0	0	0	anc
JAZZ CLUB		0	0							0	0	0	0	0	ed
MONO MOVIE		0	0							0	0	0	0	0	version
VIDEO GAME		0	0							0	0	0	0	0	rsic
MATRIX		0	0							0	0	0	0	0	On
VIRTUAL										0	0	0	0	0	

*3 Only when "Subwoofer Mode" is set to "LFE+Main" (@page 47), sound is output from the subwoofer.
*12 This item can be selected when a Dolby Digital or DTS or DVD-Audio signal is played.
*13 If "Speaker Config." – "Front Height" (@page 47) is set to "None", this item cannot be selected.
*14 This item can be selected when "Surround Parameter" – "Front Height" (@page 42) is set to "ON".
*15 This item cannot be set when "Dynamic EQ" (@page 44) is set to "ON".
*16 In this surround mode, bass is +6 dB, and treble is +4 dB. (Default)

*17 This item cannot be set when "MultEQ" (Ppage 43) is set to "OFF" or "Manual".

*18 This item cannot be set when "Dynamic EQ" (IGP page 44) is set to "OFF".
*19 This item can be set when the input signal is analog, PCM 48 kHz or 44.1 kHz.

*20 For HD Audio whose sampling frequency of an input signal is more than 96 kHz, this sound parameter cannot be set.

Surround

U Types of input signals, and corresponding surround modes

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

Symbols in the table

• This indicates the default surround mode.

 \odot This indicates the surround mode that is fixed when "AFDM" (127 page 42) is set to "ON".

 $\bigcirc\,$ This indicates the selectable surround mode.

									Input sig	nal types and	d formats							
			PC	CM	DTS	S-HD			DTS			DO	LBY		[OLBY DIGITAL	L	
Surround mode (🎓 page 23)	NOTE AN	ANALOG	LINEAR PCM (multi ch)	LINEAR PCM (2ch)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)
DTS SURROUND																		
DTS-HD MSTR																		
DTS-HD HI RES																		
DTS ES DSCRT6.1	*1*3							\bullet \bigcirc										
DTS ES MTRX6.1	*1*3								\bullet \bigcirc									
DTS SURROUND								0	0									
DTS 96/24																		
DTS (-HD) + PLIIx CINEMA	*2*3				\bigcirc	0	0	0	0	\bigcirc	0							
DTS (-HD) + PLIIx MUSIC	*1*3				\bigcirc	0	0	0	0	\bigcirc	0							
DTS (–HD) + PLIIz	* 4				\bigcirc	0	0	0	0	\bigcirc	0							
DTS EXPRESS																		
DTS (-HD) + NEO:6	*1*3				\bigcirc	0	0		0	\bigcirc	0							
DTS NEO:6 CINEMA		0		0														0
DTS NEO:6 MUSIC		0		0														0
DOLBY SURROUND																		
DOLBY TrueHD																		
DOLBY DIGITAL+																		
DOLBY DIGITAL EX	*1*3													0	0	0	0	
DOLBY (D+) (HD) +EX	*1*3											0	0					
DOLBY DIGITAL														0				
DOLBY (D) (D+) (HD) +PLIIx CINEMA	*2*3											0	0		0	0	0	
DOLBY (D) (D+) (HD) +PLIIx MUSIC	*1*3											0	0	0	0	0	0	
DOLBY (D) (D+) (HD) +PLIIz	* 4											0	0	0	0	0	0	
DOLBY PRO LOGIC IIx CINEMA	*1*3	0		0														0
DOLBY PRO LOGIC IIx MUSIC	*1*3	0		0														0
DOLBY PRO LOGIC IIx GAME	*1*3	0		0														0
DOLBY PRO LOGIC IIz	* 4	0		0														0
DOLBY PRO LOGIC II CINEMA		0		0														0
DOLBY PRO LOGIC II MUSIC		0		0														0
DOLBY PRO LOGIC II GAME		0		0														0
DOLBY PRO LOGIC		0		0														0

*1 If "Speaker Config." - "S.Back" (127 page 47) is set to "None", this surround mode cannot be selected.

*2 If "Speaker Config." - "S.Back" (12 page 47) is set to "1sp" or "None", this surround mode cannot be selected.

*3 This surround mode can be selected when "Pre Assign" (12 page 46) is set to "Normal".

*4 If "Speaker Config." - "Front Height" (@ page 47) is set to "None", this surround mode cannot be selected.

Simple version

Basic version

Advanced version

																	S	Surround	
									Input sig	nal types and	formats								
			PC	CM	DTS-HD DTS								LBY		[DOLBY DIGITAL	.BY DIGITAL		
Surround mode (🕼 page 23)	NOTE	ANALOG	LINEAR PCM (multi ch)	LINEAR PCM (2ch)	DTS-HD Master Audio	DTS-HD High Resolution Audio	DTS EXPRESS	DTS ES DSCRT (With Flag)	DTS ES MTRX (With Flag)	DTS (5.1ch)	DTS 96/24	DOLBY TrueHD	DOLBY DIGITAL Plus	DOLBY DIGITAL EX (With Flag)	DOLBY DIGITAL EX (With no Flag)	DOLBY DIGITAL (5.1/5/4ch)	DOLBY DIGITAL (4/3ch)	DOLBY DIGITAL (2ch)	
AULTI CH IN																			
MULTI CH IN																			
MULTI CH IN + PLIIx CINEMA	*2*3		0																
MULTI CH IN + PLIIx MUSIC	*1*3		0																
MULTI CH IN + PLIIz	*4		0																
MULTI CH IN + Dolby EX	*1*3		0																
MULTI CH IN 7.1	*3		• (7.1)																
DIRECT																			
DIRECT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DSP_SIMULATION																			
MULTI CH STEREO		0	0	0				0	0	0	0			0	0	0	0	0	
ROCK ARENA		0	0	0				0	0	0	0			0	0	0	0	0	
JAZZ CLUB		0	0	0				0	0	0	0			0	0	0	0	0	
MONO MOVIE		0	0	0				0	0	0	0			0	0	0	0	0	
VIDEO GAME		0	0	0				0	0	0	0			0	0	0	0	0	
MATRIX		0	0	0				0	0	0	0			0	0	0	0	0	
VIRTUAL		0	0	0				0	0	0	0			0	0	0	0	0	
STEREO					-					-					-		-		
STEREO			0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	

*1 If "Speaker Config." - "S.Back" (12 page 47) is set to "None", this surround mode cannot be selected.

*2 If "Speaker Config." – "S.Back" (*ii* page 47) is set to "1sp" or "None", this surround mode cannot be selected.
*3 This surround mode can be selected when "Pre Assign" (*ii* page 46) is set to "Normal".

*4 If "Speaker Config." - "Front Height" (@ page 47) is set to "None", this surround mode cannot be selected.

Information

65

Explanation of terms

Adobe RGB color / Adobe YCC601 color

Like x.v.Color, each of these color spaces defines a palette of available colors that is larger than the traditional RGB color model, and closer to the full range of colors perceptible to the human eye.

Audyssey Dynamic EQ[®]

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

Audyssey Dynamic Volume™

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

Audyssey MultEQ®

Audyssey MultEQ is a room equalization solution that calibrates any audio system so that it can achieve optimum performance for every listener in a large listening area. Based on several room measurements, MultEQ calculates an equalization solution that corrects for both time and frequency response problems in the listening area and also performs a fully automated surround system setup. **Auto Lip Sync**

If you connect the receiver to a TV that supports the Auto Lip Sync function, it can automatically correct delay between the audio and video.

Deep Color

This technology allows expression of more number of colors than the conventional 8 bits and can reproduce colors close to natural ones without color streak.

Dolby Digital

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

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

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

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

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

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

Dolby Digital Plus

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

Dolby TrueHD

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

This format 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 three modes: "Music" suited for playing music, "Cinema" suited for playing movies, and "Game" which is optimized for playing games.

Dolby Pro Logic IIz

Dolby Pro Logic IIz introduces a new dimension to Home Entertainment through the addition of a pair of front height channels. Compatible with stereo, 5.1-channel and 7.1-channel content, Dolby Pro Logic IIz provides enhanced spaciousness, depth and dimension to movies, concert video and video game playback while maintaining the full integrity of the source mix.

Dolby Pro Logic IIz identifies and decodes spatial cues that occur naturally in all content, directing this information to the front height channels, complementing the performance of left and right surround sound speakers. Content that is encoded with Dolby Pro Logic IIz height channel information can be even more revealing, with perceptually discrete height channel information bringing an exciting new dimension to home entertainment.

Dolby Pro Logic IIz, with front height channels is also an ideal alternative for households that cannot support the placement of back surround speakers of a typical 7.1-channel system but may have bookshelf space available to support the addition of height speakers.

Downmix

This function converts the number of channels of surround audio to less number of channels and plays back.

DTS

This is an abbreviation of Digital Theater System, which is a digital audio system developed by DTS. When playing back audio by connecting this system with a device such as DTS amplifier, accurate sound field position and realistic sound effect as if you are in a movie theater can be obtained.

DTS 96/24

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

DTS Digital Surround

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

DTS-ES[™] Discrete 6.1

DTS-ES[™] Discrete 6.1 is a 6.1-channel discrete digital audio format adding a surround back (SB) channel to the DTS digital surround sound. Decoding of conventional 5.1-channel audio signals is also possible according to the decoder.

DTS-ES[™] Matrix 6.1

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

DTS Express

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

DTS-HD

This audio technology provides higher sound quality and enhanced functionality than the conventional DTS and is adopted as an optional audio for Blu-ray Disc. This technology supports multi-channel, high data transfer speed, high sampling frequency, and lossless audio playback. Maximum 7.1-channels are supported in Blu-ray Disc.

DTS-HD High Resolution Audio

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

DTS-HD Master Audio

DTS-HD Master Audio is 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 NEO:6[™] Surround

н

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.

Dynamic range

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

HDCP

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

HDMI

This is an abbreviation of High-Definition Multimedia Interface, which is an AV digital interface that can be connected to a TV or amplifier. Video signal and audio signal can be connected using 1 cable.



.FE This is

This is an abbreviation of Low Frequency Effect, which is an output channel that emphasizes low frequency effect sound. Surround audio is intensified by outputting 20 Hz to 120 Hz deep bass.

M MD2 (MDEC Audia las

MP3 (MPEG Audio layer 3)

This is an internationally standardized audio data compression scheme, using the "MPEG-1" video compression standard. It compresses the data volume to about one eleventh its original size while maintaining sound quality equivalent to a music CD. **MPEG (Moving Picture Experts Group), MPEG-2, MPEG-4**

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

Progressive (sequential scanning)

Ρ

This is a scanning system of video signal that displays 1 frame of video as one image. Compared to the interlace system, this system provides images with less flickering and bleeding.

Protection Circuit

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

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

S Sampling frequency

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

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

S/PDIF

One of the standards for digital transmission of audio signals.

Speaker impedance

This is an AC resistance value, indicated in Ω (ohms). Greater power can be obtained with this value smaller.

sYCC601 color

Like x.v.Color, each of these color spaces defines a palette of available colors that is larger than the traditional RGB color model, and closer to the full range of colors perceptible to the human eye.

WMA (Windows Media Audio)

W

This is audio compression technology developed by Microsoft Corporation.

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

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

X x.v.Color

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

Troubleshooting

If a problem should arise, first check the following:

1. Are the connections correct?

- 2. Is the set being operated as described in the owner's manual?
- 3. Are the other components operating properly?

If this unit does not operate properly, check the items listed in the table below. Should the problem persist, there may be a malfunction.

In this case, disconnect the power immediately and contact your store of purchase.

[General]

Symptom	Cause/Solution	Page
Power does not turn on.	 Check whether the power plug is correctly inserted into the power outlet. The protection circuit is active. Disconnect the power plug from 	5 5, 67
	the electric outlet, wait 5 to 10 seconds and then insert it back into the outlet.	3, 67
Display is off.	• Set "Display" on the menu to something other than "OFF".	50
The power indicator is blinking red in intervals of	• The temperature inside the unit has risen. Please turn off power once, and re-apply the power after the temperature has fallen sufficiently.	_
approximately 2 seconds.	• Please re-install this unit in a place having good ventilation.	-
The power indicator	Please use speakers which have the specified impedance. The speakers address of the specified impedance.	4
is blinking red in intervals of approximately 0.5 seconds.	• The speaker cable has shorted (is touching). Firmly twist the core wire in the speaker cable, and then re-connect it to the speaker terminal.	4
After turning on the power, the power indicator is blinking red in intervals of approximately 0.5 seconds.	• This unit amplifier circuit has failed. Turn off the power and please contact the DENON service adviser.	-
Set does not operate properly.	Reset the microprocessor.	70

[Video]

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

(Audio)

Symptom	Cause/Solution	Page
Audio is not output.	 Check the connections for all devices. Check the speaker connections. Check whether the audio device power is turned on. Adjust the master volume. Cancel the mute mode. Select a suitable input source. Select a suitable input mode. Disconnect the headphones. No sound is output from the speakers or the PRE OUT connectors when headphones are connected. 	5, 15 – 18 5, 28, 29 6 19 19 19 40 57
No sound is produced from surround speaker.	• Check if the surround speakers are connected to the SURROUND terminals.	_
No sound is produced from surround back	 Set "Pre Assign" on the menu to "Normal". Set "Speaker Config." – "S.Back" on the menu to something other than "None". 	46 47
speaker.	 Set "Surround Parameter" – "S.Back" on the menu to something other than "OFF". Set the surround mode to something other than "STEREO". 	42 23
No sound is produced from front	• Set "Surround Parameter" – "Front Height" on the menu to "ON".	42
height speaker.	 Set "Pre Assign" on the menu to "Front Height". Set "Speaker Config." – "Surround" on the menu to something other than "None". 	46 47
No sound is produced from subwoofer.	 Check the subwoofer connections. Turn on the subwoofer's power. Set "Speaker Config." – "Subwoofer" on the menu to "Yes". If "Front" and "Center" for "Speaker Config." are set to "Large", and "Subwoofer Mode" is set to "LFE", no sound may be output from the subwoofers, depending on the input signal or selected surround mode. 	5, 28, 29 6 46 46, 47
DTS sound is not output.	• Set "Decode Mode" on the menu to "Auto" or "DTS".	40
Dolby TrueHD, DTS- HD, Dolby Digital Plus audio is not output.	• Make HDMI connections.	14

Symptom	Cause/Solution	Page
No audio is output with HDMI connection.	 Check the connection of the HDMI connectors. When outputting HDMI audio from the speakers, set "HDMI Audio Out" on the menu to "Amp". 	14 48
	 When outputting HDMI audio from a TV, set "HDMI Audio Out" on the menu to "TV". 	48
No video is	Check the connection of the HDMI connectors.	14
output with HDMI connection.	 Set the input source to match the connected HDMI connector. Check whether the TV is compatible with copyright protection (HDCP). If connected to a device not compatible with HDCP, video will not be output correctly. 	14, 19 14
When the following operations are performed on devices compatible with HDMI control, the same operations occur on this unit. • Power ON/OFF	 Set "HDMI Control" on the menu to "OFF". To operate power only for each device, set "Power Off Control" to "OFF". 	30, 48
• Switching audio		
output devicesAdjust volume		
Switch input source		

[Radio]

Symptom	Cause/Solution	Page
Reception fails, or	• Change the antenna orientation or position.	18
there is a lot of noise	 Separate the AM loop antenna from the unit. 	18
or distortion.	• Use an FM outdoor antenna.	18
	 Separate the antenna from other connection cables. 	18

[iPod]

Symptom	Cause/Solution	Page
iPod cannot be	Check the iPod connections.	18
played.	 Plug the control dock for iPod's AC adapter into a power outlet. Switch the input source to "DOCK". 	- 19
"Connection Error" is displayed.	• Unable to communicate properly. Turn off the power to this unit, disconnect the iPod and then reconnect it.	-
"Not Support" is displayed.	• The iPod connected to the unit is not compatible. Please make sure the iPod you are connecting is compatible.	21
	• The software version of the connected iPod is an old one. Please update to the latest version.	_
"Connection Error" is displayed.	• The iPod is not responding. Turn off the power to this unit, disconnect the iPod and then reconnect it.	-

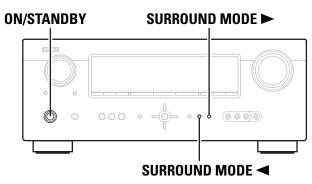
[Remote control unit]

Inemote control unit		
Symptom	Cause/Solution	Page
The set cannot be	• Batteries are worn out. Replace with new batteries.	60
operated with the remote control unit.	• Operate the remote control unit within a distance of about 23 ft / 7 m from this unit and at an angle of within 30°.	60
	 Remove any obstacle between this unit and the remote control unit. 	60
	• Insert the batteries in the proper direction, checking the \oplus and \ominus marks.	60
	• 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.	60

Simple version

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.



- Turn off the power using **ON/STANDBY**.
- Press ON/STANDBY while simultaneously pressing SURROUND MODE < and SURROUND MODE ►.
- 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.

Specifications

Audio section

· Power amplifier Rated output:

Front: 75 W + 75 W (8 O. 20 Hz - 20 kHz with 0.08 % T.H.D.) 120 W + 120 W (6 Ω, 1 kHz with 0.7 % T.H.D.) Center: 75 W (8 Ω, 20 Hz - 20 kHz with 0.08 % T.H.D.) 120 W (6 Ω, 1 kHz with 0.7 % T.H.D.) Surround: 75 W + 75 W (8 Ω, 20 Hz – 20 kHz with 0.08 % T.H.D.) 120 W + 120 W (6 Ω, 1 kHz with 0.7 % T.H.D.) Output connectors: 6 – 16 Ω Analog Input sensitivity/Input impedance: 200 mV/47 kΩ Frequency response: 10 Hz - 100 kHz - +1, -3 dB (DIRECT mode) S/N: 98 dB (IHF-A weighted, DIRECT mode) Video section • Standard video connectors Input/output level and impedance: 1 Vp-p, 75 Ω Frequency response: 5 Hz - 10 MHz - +1, -3 dB Color component video connector Input/output level and impedance: Y (brightness) signal — 1 Vp-p, 75 Ω P_B / C_B signal — 0.7 Vp-p, 75 Ω Pr / Cr signal — 0.7 Vp-p, 75 Ω 5 Hz - 60 MHz - +0, -3 dB Frequency response: Tuner section [AM] [FM] (Note: μ V at 75 Ω , 0 dBf = 1 x 10⁻¹⁵ W) **Receiving Range:** 87.5 MHz - 107.9 MHz 520 kHz – 1710 kHz Usable Sensitivity: 1.2 µV (12.8 dBf) 18 µV 50 dB Quieting Sensitivity: MONO 2.8 µV (20.2 dBf) S/N (IHF-A): MONO 70 dB STEREO 67 dB Total harmonic Distortion (at 1 kHz): MONO 0.7 % STEREO 1.0 % General Power supply: AC 120 V, 60 Hz Power consumption: 360 W 0.1 W (Standby) 3 W (CEC standby) Maximum external dimensions: 434 (W) x 171 (H) x 381 (D) mm (17-3/32" x 6-47/64" x 15") Weight: 9.2 kg (20 lbs 4.5 oz)

□ Remote Control Unit (RC-1147)

Batteries:	R6/AA Type (two batteries)
Maximum external dimensions:	53 (W) x 224 (H) x 28 (D) mm (2-3/32" x 8-13/16" x 1-7/64")
Weight:	160 g (5.6 oz, including batteries)

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

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