NOTE ON USE / HINWEIS ZUM GEBRAUCH / OBSERVATIONS RELATIVES / NOTA SULL’USO / NOTAS SOBRE EL USO / ALVORENS TE GEBRUIKEN / OBSERVERA

• DECLARATION OF CONFORMITY
We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards:
EN61000-3-3, EN60065, EN55013, EN55020, EN61000-3-2 and EN55022.

• DICHIARAZIONE DI CONFORMITÀ
Dichiamo con piena responsabilità che questo prodotto, al quale la nostra dichiarazione si riferisce, è conforme alle seguenti norme:
EN61000-3-3, EN60065, EN55013, EN55020, EN61000-3-2 e EN55022.

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

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• DEKLARÁCIÓN A KOMPLIANS
Kijelentjük, hogy az üzemeltetéshez kapcsolódó termék megfelel a következő szabványoknak:
EN61000-3-3, EN60065, EN55013, EN55020, EN61000-3-2 és EN55022.

• DEKLARACJON O Zgodności
Oświadczamy, że niniejsze urządzenie jest zgodne z następującymi normami:
EN61000-3-3, EN60065, EN55013, EN55020, EN61000-3-2 i EN55022.

• DECLARACIÓN DE CONFORMIDAD
Declaramos bajo nuestra exclusiva responsabilidad que este producto al que hace referencia esta declaración, está conforme con los siguientes estándares:
EN61000-3-3, EN60065, EN55013, EN55020, EN61000-3-2 y EN55022.

Siguendo las provisiones de las Directivas 73/23/CEE, 89/336/CEE y 93/68/CEE.

• EENVORMIGHEIDSVERKLARING
We verklaren uitsluitend op onze verantwoordelijkheid dat dit product, waarop deze verklaring betrekking heeft, in overeenstemming is met de volgende normen:
EN61000-3-3, EN60065, EN55013, EN55020, EN61000-3-2 en EN55022.

Volgens de bepalingen van de Richtlijnen 73/23/CE, 89/336/CE en 93/68/CE.

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• DECLARAZIONE DI CONFORMITÀ
Declaramo con piena responsabilità che questo prodotto, al quale la nostra dichiarazione si riferisce, è conforme alle seguenti normative:
EN61000-3-3, EN60065, EN55013, EN55020, EN61000-3-2 e EN55022.

In conformità con le condizioni delle direttive 73/23/CEE, 89/336/CEE e 93/68/CEE.

• UNDERSTAND THE WARNINGS AND CAUTIONS
declared herein and instructions in the literature accompanying the appliance.

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Getting Started
Getting Started

Thank you for choosing the DENON AVC-A11XV Digital Surround A/V amplifier. This remarkable component has been engineered to provide superb surround sound listening with home theater sources such as DVD, as well as providing outstanding high fidelity reproduction of your favorite music sources.

As this product is provided with an immense array of features, we recommend that before you begin hookup and operation that you review the contents of this manual before proceeding.

Accessories

- Check that the following parts are included in addition to the main unit:
  - Operating instructions.......................................1
  - Service station list.............................................1
  - Power supply cord ............................................1
  - Remote control unit (RC-995)...........................1
  - R03/AAA alkaline batteries...............................4
  - Omnidirectional microphone.............................1
  - List of preset codes..........................................1

Before using

Pay attention to the following before using this unit:

- Moving the set
  To prevent short circuits or damaged wires in the connection cords, always unplug the power supply cord and disconnect the connection cords between all other audio components when moving the set.

- Before turning the Power switch on
  Check once again that all connections are proper and that there are no problems with the connection cords. Always set the power switch to the standby position before connecting and disconnecting connection cords.

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

- Store these instructions in a safe place. After reading, store these instructions along with the warranty in a safe place.

Cautions on installation

Noise or disturbance of the picture may be generated if this unit or any other electronic equipment using microprocessors is used near a tuner or TV. If this happens, take the following steps:

- Install this unit as far as possible from the tuner or TV.
- Set the antenna wires from the tuner or TV away from this unit’s power supply cord and input/output connection cords.
- Noise or disturbance tends to occur particularly when using indoor antennas or 300Ω/ohms feeder wires. We recommend using outdoor antennas and 75Ω/ohms coaxial cables.

Note:
- For heat dispersal, do not install this equipment in a confined space such as a book case or similar unit.

Cautions on handling

- Switching the input function when input terminals are not connected.
  A clicking noise may be produced if the input function is switched when nothing is connected to the input terminals. If this happens, either turn down the MASTER VOLUME control knob or connect components to the input terminals.

- Muting of PRE OUT terminals and SPEAKER terminals.
  The PRE OUT terminals and SPEAKER terminals include a muting circuit. Because of this, the output signals are greatly reduced for several seconds after the power switch is turned on or input function, surround mode or any other-set up is changed. If the volume is turned up during this time, the output will be very high after the muting circuit stops functioning. Always wait until the muting circuit turns off before adjusting the volume.

- Whenever the power switch is in the STANDBY state, the apparatus is still connected on AC line voltage. Please be sure to turn off the power switch or unplug the cord when you leave home for, say, a vacation.

Preparing the remote control unit

The included remote control unit (RC-995) can be used to operate not only the AVC-A11XV but other remote control compatible DENON components as well. In addition, the memory contains the control signals for other remote control units, so it can be used to operate non-DENON remote control compatible products.
Getting Started

Inserting the batteries

1. Remove the remote control unit’s rear cover.

2. Set four R03/AAA batteries in the battery compartment in the indicated direction.

3. Put the rear cover back on.

Notes on Batteries:
• Replace the batteries with new ones if the set does not operate even when the remote control unit is operated nearby the set. (The included battery is only for verifying operation.)
• When inserting the batteries, be sure to do so in the proper direction, following the "B" and "B" 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 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.
• When replacing the batteries, have the new batteries ready and insert them as quickly as possible.

Motion sensor
The RC-995 remote control is equipped with a motion sensor that activates the backlighting function when it is picked up and/or handled. Occasionally, you might hear a faint “clicking” sound from within, this is the motion sensor, and is a normal condition.

Operating range of the remote control unit

• Point the remote control unit at the remote sensor on the main unit as shown in the diagram.
• The remote control unit can be used from a straight distance of approximately 7 meters from the main unit, but this distance will be shorter if there are obstacles in the way or if the remote control unit is not pointed directly at the remote sensor.
• The remote control unit can be operated at a horizontal angle of up to 30 degrees with respect to the remote sensor.

NOTE:
• It may be difficult to operate the remote control unit if the remote sensor is exposed to direct sunlight or strong artificial light.
• Do not press buttons on the main unit and remote control unit simultaneously. Doing so may result in malfunction.
• Neon signs or other devices emitting pulse-type noise nearby may result in malfunction, so keep the set as far away from such devices as possible.

Part names and functions

For details on the functions of these parts, refer to the pages given in parentheses ( ).

Front panel

1. Power ON/STANDBY switch.................(9)
2. Power indicator..................................(8)
3. Power switch....................................(9, 40)
4. Headphones jack (PHONES)...................(21)
5. V. AUX INPUT terminals.......................(14)
6. SETUP MIC jack................................(31)
7. USER MODE 1 button.........................(29)
8. USER MODE 2 button.........................(29)
9. USER MODE 3 button.........................(29)
10. MASTER VOLUME control knob..............(20)
11. MULTI EQ indicator.........................(23)
12. Master volume indicator....................(23)
13. Display..........................................(44)
14. Remote control sensor.....................(31)
15. FUNCTION knob..............................(30, 38, 40)
16. SOURCE button...............................(20)
17. ZONE2 SELECT button......................(38)
18. ZONE3/REC SELECT button...............(38, 40)
19. PURE DIRECT button.......................(24)
20. DIRECT/STEREO button....................(24)
21. STANDARD button.........................(26 ~ 29)
22. HOME THX CINEMA button...............(24, 25)
23. 7CH STEREO button...........................(20)
24. DSP SIMULATION button....................(20)
25. CH SELECT/ENTER button.................(9, 31, 32)
26. SURROUND BACK button....................(25)
27. SURROUND PARAMETER button............(24)
28. TONE DEFEAT button.......................(31)
29. DIMMER button...............................(21)
30. STATUS button...............................(21)
31. ROOM EQ button.............................(22)
32. CURSOR button...............................(9)
33. SYSTEM SETUP button.....................(9)
34. EXT. IN button...............................(21)
35. ANALOG button..............................(22)
36. INPUT MODE button.......................(21, 22)
Getting Started

Display

1. Input signal indicator
   The respective indicator will light corresponding to the input signal.

2. Input signal channel indicator
   The channels included in the input source will light.
   This lights when the digital signal is inputted.

3. Information display
   This displays the surround mode, function name or setting value, etc.

4. Output signal channel indicator
   The audio channels that can be output light.

5. Speaker indicator
   This lights corresponding to the settings of the surround speakers of the various surround modes.

6. Decoder indicator
   This lights when each decoder is operating.

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

8. IEEE1394 indicator
   This lights during playback in a IEEE1394 connection.

9. Multi (zone) indicator
   ZONE3 mode is selected in ZONE3/REC SELECT.

10. Recording output source indicator
    REC OUT mode is selected in ZONE3/REC SELECT.

11. DENON LINK indicator
    This lights during playback in a DENON LINK connection.

12. AL24 indicator
    The AL24 indicator lights when the PURE DIRECT, DIRECT, STEREO, MULTI CH, PURE DIRECT, MULTI CH DIRECT, MULTI CH IN mode is selected in the PCM input signal.

13. Input mode indicator
    This lights corresponding to the setting of the input mode.

Remote control unit

For details on the functions of these parts, refer to the pages given in parentheses ( ) .

Power buttons ..............................................(9)
System button ..............................................(39)
Mode selector buttons ....................................(9, 20, 32)
Input source button ........................................(20, 32)
Surround mode button .....................................(20, 32)
System buttons ............................................(32 ~ 35)

NOTE:
- With the AIWA-CX11X, the "Z4", "VCR4", "AUX", "RDS", "M.SEL" and "SCALE" buttons cannot be used.
- The AIWA-CX11X’s 7CH STEREO surround mode can be operated using the "SCH" button.
- For instructions on setting the remote control unit back light’s lighting time (page 36).
Easy Setup and Operation

• This section contains the basic steps necessary to configure the AVC-A11XV according to your listening room environment and the source equipment and loudspeakers you are using.
• For optimum performance, we recommend using the Auto Setup function.
• If you wish, you can set the various settings manually without using Auto Setup (page 53 – 57).

Easy to setup flow

Placing the speakers

Connecting the speakers

Connecting a monitor and a DVD player

Starting the Auto Setup

Playing a DVD with surround sound

Auto setup flow

Connecting a microphone

Preliminary measurement

1) Measuring the background noise (noise in the room)
2) Determining whether or not speakers are connected
3) Checking the polarities of the speakers

The measurement of the speakers in the main listening position

1) Speaker Configuration
2) Delay Time
3) Channel Level
4) Crossover Frequency
5) Room EQ

The measurement of the speakers in the 2nd to 8th listening position

Check of the measurement result

Store the measurement result in the memory

Speaker system layout

Basic system layout (For a THX Ultra2 system)
The following is an example of the basic layout for a system consisting of eight speaker systems and a television monitor:

- Subwoofer
- Center speaker system
- Surround speaker systems
- Surround back speaker systems
- Front speaker systems

Set these at the sides of the TV or screen with their front surfaces as flush with the front of the screen as possible.

Two surround back speakers are required to use the THX Ultra2 Cinema, THX Music mode and THX Games mode. Set the surround back speakers so that the distance to the listening position is the same for both the left and right speakers. It is also recommended that the deviations of the distance from the listening position to L and R channel speakers (front left (FL) and front right (FR), surround left (SL) and surround right (SR), surround back left (SBL) and surround back right (SBR)) is less than 60 cm (2 ft).

With the AVC-A11XV it is also possible to use the surround speaker selector function to choose the best layout for a variety of sources and surround modes.

Surround speaker selector function

This function makes it possible to achieve the optimum sound fields for different sources by switching between two systems of surround speakers (A and B). The settings of the different speakers (A only, B only or A+B) are stored in the memory for the different surround modes, so they are set automatically when the surround mode is selected.
Easy Setup and Operation

Speaker connections

- Connect the speaker terminals with the speakers making sure that like polarities are matched (\( \leq \) with \( \leq \), \( \geq \) with \( \geq \)). Mismatching of polarities will result in weak central sound, unclear orientation of the various instruments, and the sense of direction of the stereo being impaired.
- When making connections, take care that none of the individual conductors of the speaker cable come in contact with adjacent terminals, with other speaker cable conductors, or with the rear panel.

**NOTE:** NEVER touch the speaker terminals when the power is on. Doing so could result in electric shocks.

Speaker Impedance

- Speakers with an impedance of from 6 to 16 Ω can be connected for use as front, center, surround and surround back speakers.
- Be careful when using two pairs of surround speakers (A + B) at the same time, since use of speakers with an impedance of less than 8 Ω will lead to damage.
- The protector circuit may be activated if the set is played for long periods of time at high volumes when speakers with an impedance lower than the specified impedance are connected.

Connections

- The AVC-A11XV can be configured for 10 speaker playback using two pairs of surround speakers (A+B) and one pair of surround back speakers as shown below.
- The output of each power amplifier can be assigned to any desired channel to best suit the application. For details, refer to “Setting the Channel Setup” and “Setting the Power Amplifier Assignment” (page 49, 50).
- When making connections, also refer to the operating instructions of the other components.

### Easy Setup and Operation

**Protector circuit**

This unit is equipped with a high-speed protection circuit. The purpose of this circuit is to protect the speakers under circumstances such as when the output of the power amplifier is inadvertently short-circuited and a large current flows, when the temperature surrounding the unit becomes unusually high, or when the unit is used at high output over a long period which results in an extreme temperature rise.

When the protection circuit is activated, the speaker output is cut off and the power supply indicator flashes. Should this occur, please follow these steps: be sure to switch off the power of this unit, check whether there are any faults with the wiring of the speaker cables or input cables, and wait for the unit to cool down if it is very hot. Improve the ventilation condition around the unit and switch the power back on.

If the protection circuit is activated again even though there are no problems with the wiring or the ventilation around the unit, switch off the power and contact a DENON service center.

**Note on speaker impedance**

The protector circuit may be activated if the set is played for long periods of time at high volumes when speakers with an impedance lower than the specified impedance (for example speakers with an impedance of lower than 4 Ω) are connected. If the protector circuit is activated, the speaker output is cut off. Turn off the set’s power, wait for the set to cool down, improve the ventilation around the set, then turn the power back on.
Easy Setup and Operation

Connecting a DVD player and monitor TV
The Auto Setup and Room EQ function of this unit performs an analysis of the speaker system and measures the acoustic characteristics of your room to permit an appropriate automatic setting.

The AVC-A11XV’s Audyssey MultiEQ XT function has the feature that it provides the optimum listening environment at all listening positions in the home theater, where there are often multiple listener’s viewing programs together. To achieve this, it is first necessary to use a microphone to measure test tones generated from the different speakers at the various listening positions. All this measured data is analyzed with a unique method to comprehensively improve acoustic characteristics in the listening area. For optimum effectiveness, measurements should be performed at six or more points. Move the microphone successively within the listening area surrounded by the speakers as shown on the diagram below to measure the test tones. When listening to music or viewing movies with the whole family, move the microphone successively to the different positions in which the members of the family sit (“” on the diagram indicates the points of installation) and measure repeatedly (Example ①). Even if the number of people using the home theater is small, taking multiple measurements at or near the listening positions makes it possible to correct the sound more effectively (Example ②).

The AVC-A11XV’s Room EQ function offers three correction curves: “Audyssey”, “Front” and “Flat”. These can be selected after performing the auto setup procedure. Details of the different correction curves are described below.

• Audyssey:
  This adjusts the frequency response of all speakers to correct the effects of room acoustics.

• Front:
  This adjusts the characteristics of each speaker to the characteristics of the front speakers.

• Flat:
  This is the frequency response of all speakers flat. This is suitable for multi-channel music reproduction, from discrete music sources such as Dolby Digital 5.1, DTS, DVD-Audio and Super Audio CD.

MEMO
• To make the Speaker system settings without using the Auto Setup function [25] page 63 – 57).
• When performing Auto Setup, an optional microphone is required for setup.

### Connecting a microphone

1. Connect the optional microphone for Auto Setup to the SETUP MIC jack on the front panel of the unit.

2. Mount the auto setup microphone onto a camera tripod, etc., and place it at ear height at the main listening position in the listening room with the sound receptor facing the ceiling.

**NOTE:**
• Do not disconnect the microphone until the settings are completed.
• Do not change the connection of speakers or the subwoofer’s volume after performing these measurements.
Easy Setup and Operation

Starting Auto Setup

1 Press the SETUP button.
   * Display the "System Setup Menu".

   

   

   

   Press the CURSOR D or H button to select the "Auto Setup / Room EQ", then press the ENTER button.
   • Display the "Auto Setup / Room EQ" menu screen.

2 Press the CURSOR D or H button to select the "Auto Setup", then press the ENTER button.
   • Display the "Auto Setup" screen.

3 Press the CURSOR D or H button to select the "Extra Setup", then press the CURSOR F button.
   • Switch to the "Extra Setup" screen.

Extra Setup

The AVC-A11XV has seven available amplifier channels, some of which can be assigned for powering speakers in ZONE2 and ZONE3, depending on the speaker system complement in the main room. If this functionality is not needed, skip this "Extra Setup" procedure and proceed to "Preliminary Measurements" (page 9, 10).

Press the CURSOR D or H button to choose the setting you want to change, then press the ENTER button.
   • Switch to the setting screen.

For instructions on making the "Channel Setup" settings (page 49).
For instructions on making the "Setting the Power Amplifier Assignment" settings (page 49, 50).

The speakers measured with this Auto Setup procedure are based on the setting of these "Channel Setup" and "Power Amp Assign" functions.

4 Press the CURSOR D or H button to select the "Extra Setup", then press the ENTER button.
   * The "Extra Setup" menu reappears.

5 Enter the "Auto Setup" screen.

Turn on your subwoofer.
* Set the volume to halfway and set the crossover frequency to the maximum or Low pass filter off if your subwoofer can adjust the output volume and the crossover frequency.
* Some subwoofers have a standby mode. Be sure to turn this function off before performing the Auto Setup procedure.

Turn on your monitor (TV).

Press the POWER switch.

* OFF:
The power turns on and the power indicator lights. Set the POWER switch to this position to turn the power on and off from the included remote control unit.

* ON:
The power turns off and indicator is off. In this position, the power cannot be turned on and off from the remote control unit.

Press the ON/STANDBY switch on the main unit or ON button on the remote control unit.

* When pressed, the power turns off and the display lights.
* When pressed again, the power turns off, the standby mode is set and the display turns off.

* The sound is muted for several seconds, after which the unit operates normally.

Press the CURSOR D or H button to select the "AMP" (only when operating with the remote control unit).

Turn on your subwoofer.

Turn on your monitor (TV).

Set the volume to halfway and set the crossover frequency to the maximum or Low pass filter off if your subwoofer can adjust the output volume and the crossover frequency.

Some subwoofers have a standby mode. Be sure to turn this function off before performing the Auto Setup procedure.

Once the settings are completed, press the ENTER button at each setting screen.
* The "Extra Setup" menu reappears.

Press the CURSOR D or H button to select the "Exit", then press the ENTER button.

The screen shown at the below appears once the preliminary measurements are completed.

Press the CURSOR D or H button to select the "Start", then press the ENTER button.

* Switch to the setting screen.
* For instructions on making the "Channel Setup" settings (page 49).
* For instructions on making the "Setting the Power Amplifier Assignment" settings (page 49, 50).
* The speakers measured with this Auto Setup procedure are based on the setting of these "Channel Setup" and "Power Amp Assign" functions.

The preliminary measurements are completed.

Press the ON/STANDBY button on the remote control unit.

Press the POWER switch.

OFF:
The power turns off and indicator is off. In this position, the power cannot be turned on and off from the remote control unit.

ON:
The power turns on and the power indicator lights. Set the POWER switch to this position to turn the power on and off from the included remote control unit.

4 Press the ON/STANDBY switch on the main unit or ON button on the remote control unit.

Whenever the ON/STANDBY button is in the standby state, the apparatus is still connected to the AC line voltage. Please be sure to turn off the POWER switch or unplug the cord when you leave home for, say, a vacation.

5 Press the AMP button to select the "AMP" (only when operating with the remote control unit).
Easy Setup and Operation

3 Check the results of the speaker detection, then press the ENTER button.
   • Switch to the second screen.

   [Second screen]

4 If the check ends, press the ENTER button again.

NOTE:
• If the results are not as expected or if an error message is displayed, select “Retry” and perform the measurements again. (For details on the error messages (page 11).
   If the results of remeasurement are still not as expected or if an error message is displayed, turn off the power switch and check the speaker connections. Then start the measurements again from the beginning.
   • Measurement is cancelled when MASTER VOLUME is operated while the Auto Setup is performed.

Speaker system measurement

With these measurements, the “Speaker Configuration”, “Delay Time”, “Channel Level”, “Crossover Frequency” and “Room EQ” are analyzed automatically. The main listening position is measured first, so leave the microphone where it is.

1 Press the CURSOR △ or ▽ button to select the “OK Start”, then press the CURSOR ⏺ button.
   • Measurements for the first point start.

   The screen shown at the below appears once the measurements for the main listening position are completed.

2 Next the measurements for the second point will be taken.
   • Place the microphone at the second listening position. For instructions on the position in which the microphone should be placed (page 8).

3 Press the CURSOR ⏺ button.
   • Measurements for the second point start.

4 Perform step 2, 3 repeatedly.
   • The more measurement points, the better the resulting room correction effect. We recommend a minimum of 6 measurement points – 8 measurement points provides the best room correction effect.

5 After measuring at the number of points according to your listening environment, press the CURSOR △ or ▽ button to select the “Calculate”, then press the CURSOR ⏺ button.
   • The speaker system is analyzed.

   The amount of time required for the analysis depends on the number of speakers and the number of measuring points. The greater the number of speakers and measuring points, the longer the time required. For example, for ten speaker systems and 6 measuring points, the calculations require approximately 6 minutes.
   Measurements can be ended when there are 5 or less measurement locations; however, to obtain better results, measurements at 6 or more locations is recommended.
   Once the calculations are completed, a screen for confirming the results of the measurements appears.

The more measurement points, the better the resulting room correction effect. We recommend a minimum of 6 measurement points – 8 measurement points provides the best room correction effect.

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Easy Setup and Operation

Check of the measurement result

The results of the measured items can be checked.

1. Press the CURSOR △ or ▽ button to select the items, then press the ENTER button.
   - Example: Speaker Config. Check

   ![Screen example 1]

2. Press the ENTER button.
   - Example: Speaker Config. Check

   ![Screen example 2]

3. If the check ends, press the ENTER button again.

4. Press the CURSOR △ or ▽ button to select whether or not to save the data you have checked.

   ![Screen example 3]

5. Press the CURSOR < button.
   - Example: Speaker Config. Check

   ![Screen example 4]

**About the error message**

These error messages will be displayed when performing the measurements of Auto Setup and the automatic measurements can be not completed because of the speaker arrangement, measurement environment, or other factors. Please check the following matters, reset the pertinent items, and measure again. Be sure to turn off the AVC-A11XV’s power before checking the speaker connections.

<table>
<thead>
<tr>
<th>Screen example</th>
<th>Cause</th>
<th>Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Screen example 5]</td>
<td>The speakers required for producing suitable reproduction have not been detected.</td>
<td>Check that the pertinent speakers are properly connected.</td>
</tr>
<tr>
<td>![Screen example 6]</td>
<td>Only one channel of the surround (A) and surround (B) speakers was detected.</td>
<td>-</td>
</tr>
<tr>
<td>![Screen example 7]</td>
<td>Sound was output from the R channel when only one surround back speaker was connected.</td>
<td></td>
</tr>
<tr>
<td>![Screen example 8]</td>
<td>The surround back or the surround (B) speaker was detected, but the surround (A) speaker was not detected.</td>
<td></td>
</tr>
<tr>
<td>![Screen example 9]</td>
<td>If multiple errors occur, press the CURSOR D or B button to check the contents.</td>
<td></td>
</tr>
</tbody>
</table>

*NOTE:* Do not turn off the power while the data is being stored. The power should be turned off while the data is being stored, the Room EQ parameters stored in the memory will be cleared, and it will not be possible to select the “Audyssey”, “Front” or “Flat” equalizer settings.

**Playing a DVD with surround sound**

1. Disconnect the microphone from the unit.
2. Select the input source to be played.
3. Select the play mode.
4. Start DVD playback.
5. Adjust the volume.
Connecting Other Sources

The hookup diagrams on the subsequent pages assume the use of the following optional connection cables (not supplied):

- Analog terminal (Stereo)
  - Pin-plug cable
- Analog terminal (Monoaural, for subwoofer)
  - Digital terminal (Optical)
  - Optical cable (Optical fiber cable)
- DENON LINK terminal
  - DENON LINK cable
- IEEE1394 terminal
  - 4-pin, S400 IEEE1394 cable
- Speaker terminal
  - Speaker cable
- Video cable
  - Video cable (75 Ω/ohms video pin-plug cable)
  - S video terminal
  - Component video terminal
    - (Green)
    - (Blue)
    - (Red)
  - S video cable
  - Component video cable
  - 24-pin DVI-D cable
- HDMI terminal
  - HDMI cable

The AVC-A11XV is equipped with a function for up and down converting video signals. Because of this, the AVC-A11XV’s MONITOR OUT terminal can be connected to the monitor (TV) with a set of cables offering a higher quality connection, regardless of how the player and the AVC-A11XV’s video input terminals are connected.

Generally speaking, analog video connections using the component video terminals offer the highest quality playback, followed by connections using the S-Video terminals, then connections using the regular video terminals (yellow).

The AVC-A11XV’s video up-conversion function lets you output analog video input signals (component – 480i/576i, 480p/576p, 1080i or 720p, S-Video and composite video – 480i/576i) to the HDMI monitor output terminal with the original resolution.

The on-screen display signals are output from the HDMI monitor output terminal with a resolution of 480i/576i. Because of this, if the monitor equipped with HDMI terminal is compatible with the 480i/576i resolution, all the signals the AVC-A11XV handles can be output to the monitor with a single HDMI cable. The resolutions with which the monitor is compatible can be checked using the STATUS button on the main unit or the ON SCREEN button on the remote control unit.

- HDMI / DVI-D terminals: only MAIN ZONE 480i/576i

If the monitor equipped with HDMI terminal is not compatible with the 480i/576i resolution, connect the player and the AVC-A11XV using a component cable and set the player’s resolution to one which the monitor can handle.

- If you do not want to use the function for converting analog video signals to HDMI signals, select “OFF” for “Analog to HDMI Convert” at “Setting the HDMI Out Setup” (page 46). In this case, the function for video up conversion to the component video terminal operates.

- It is not possible to down-convert from HDMI and DVI-D input signals to the component, S-Video or composite video monitor output terminals.
- Video down conversion to the MAIN ZONE’s monitor output is only possible when the component video input resolution is 480i (interlaced standard definition video – NTSC format, for North America) or 576i (interlaced standard definition video – PAL format, for Europe and other countries).
- To change the setting of the video conversion mode for the MAIN ZONE (page 45).
Connecting Other Sources

Connecting a TV tuner

• For best picture quality choose the component video connection to your TV. S-video and composite video outputs are also provided. If your TV does not have component video inputs.
• To connect the digital audio output from the TV, you can choose from either the coaxial or optical connections. If you choose to use the coaxial connection, it needs to be assigned. For more information about Digital Input Assignment (page 42).

Connecting a DBS tuner

• For best picture quality choose the component video connection to your DBS tuner. S-video and composite video outputs are also provided. If your TV does not have component video inputs.
• To connect the digital audio output from the DBS tuner, you can choose from either the coaxial or optical connections. If you choose to use the coaxial or the optical connection, it needs to be assigned. For more information about Digital Input Assignment (page 42).

NOTE:
• Use an HDMI monitor compatible with an HDMI input resolution of 480i or 576i.
• If your monitor is not equipped with an HDMI terminal, connect the AVC-A11XV to the monitor using the component video, S-video, or composite video terminals.

Connecting equipment with HDMI (High-Definition Multimedia Interface) terminals [To convert analog video signals to HDMI signals]

• The AVC-A11XV is equipped with a function for converting analog video signals into HDMI signals. You can do this by either a component or a video or a S-video connection.
• Audio signals are not output from the HDMI monitor output terminal, so also make analog or digital audio connections. To play sound using digital audio connections, assign the digital terminal (coaxial or optical) at “Setting the Digital In Assign” (page 42).

On screen display for component video outputs and HDMI output

• When viewing component video signals or HDMI signals via the AVC-A11XV, the on screen display is displayed on the monitor when the “System Setup” operations are performed and when the remote control unit’s ON SCREEN button is operated.
• To view the on screen display using an HDMI monitor, set “Analog to HDMI Convert” at “HDMI Out Setup” to “ON” default.
• When only component video signals are input to the AVC-A11XV or when “Component” is selected at the “Setting the Video Convert Mode”, the characters of the on screen display are not displayed over the picture.

Connecting Other Sources
Connecting Other Sources

Connecting external inputs (EXT. IN) terminals

- These terminals are for inputting multi-channel audio signals from an outboard decoder, or a component with a different type of multi-channel decoder, such as a DVD Audio player, or a multi-channel Super Audio CD player, or other future multi-channel sound format decoder.
- The method of video signal connection is the same as that for DVD player (page 7).
- For instructions on playback using the external input (EXT. IN) terminals (page 21).

- Playback using the DENON LINK connector Digital transfer and multi-channel playback of DVD audio discs and other multi-channel sources is possible by connecting the AVC-A11XV to a DENON DVD player equipped with a DENON LINK connector using the connection cable included with the DVD player.
- With discs on which special copyright protection measures have been taken, however, the digital signals may not be output from the DVD player. In this case, connect the DVD player’s analog multi-channel output to the AVC-A11XV’s EXT. IN terminals for playback. Also refer to your DVD player’s operating instructions.

Connecting a video camera component or video game component

- For best picture quality choose the component video connection to your DVD recorder. S-video and composite video outputs are also provided. If you choose to use the component video connection, it needs to be assign. For more information about Component Input Assignment (page 45).
- If you wish to perform analog dubbing from a digital sources, such as a DVD recorder to an analog recorder such as a cassette deck, you will needs connect analog inputs and outputs as shown below, in addition to the digital audio connections.

Connecting a DVD recorder

- For best picture quality choose the component video connection to your DVD recorder. S-video and composite video outputs are also provided. If you choose to use the component video connection, it needs to be assign. For more information about Component Input Assignment (page 45).
- If you wish to perform analog dubbing from a digital sources, such as a DVD recorder to an analog recorder such as a cassette deck, you will needs connect analog inputs and outputs as shown below, in addition to the digital audio connections.

NOTE:
- When recording to DVD recorder, it is necessary that the type of cable used with the playback source equipment be the same type that is connected to the AVC-A11XV’s OPTICAL 2 OUT terminal. (Example) VCR-1 IN → S-video cable : VCR-1 OUT → S-video cable
- VCR-1 IN → video cable : VCR-1 OUT → video cable
- Do not connect the output of the component connected to the OPTICAL 2 OUT terminal on the AVC-A11XV’s rear panel to any terminal other than the OPTICAL 2 IN terminal.
Connecting Other Sources

Connecting a VCR

• There are three sets of video deck (VCR) terminals, so three video decks can be connected for simultaneous recording or video copying.

**NOTE:**

• When recording to VCR, it is necessary that the type of cable used with the playback source equipment be the same type that is connected to the AVC-A11XV VCR-1 (to 3) OUTPUT terminal.

  (Example) VCR-2 IN → S-video cable → VCR-2 OUT → S-video cable
  VCR-2 IN → video cable → VCR-2 OUT → video cable

• Do not connect the output of the component connected to the OPTICAL 3 OUT terminal on the AVC-A11XV’s rear panel to any terminal other than the OPTICAL 3 IN terminal.

Connecting a CD player
Connecting Other Sources

Connecting a tape deck

[Diagram of connecting a tape deck]
Connecting Other Sources

Connecting equipment with DVI (Digital Visual Interface) terminals

- Connection with equipment that has a DVI (Digital Visual Interface)-D connector permits the transfer of digital images. Make an analog or digital audio connection also.

- When connecting via a DVI-D cable, no digital audio will be output from the HDMI Monitor Out connector.
- If your digital TV monitor only supports DVI-D, please obtain and use an HDMI-DVI conversion cable or adaptor, available from your dealer.

NOTE:
- Commercially-available DVI cables are available in 24-pin and 29-pin types. The AVC-A11XV supports the 24-pin DVI-D cable.
- The AVC-A11XV supports HDCP. Use an HDCP-compatible HDMI monitor.
- When connecting via a DVI-D cable, no digital audio will be output from the HDMI Monitor Out connector.
- If your digital TV monitor only supports DVI-D, please obtain and use an HDMI-DVI conversion cable or adaptor, available from your dealer.

Connections with an HDMI/DVI-D conversion cable (adapter)

- The HDMI video stream signals (video signals) are theoretically compatible with DVI-D. When connecting to a monitor, etc., equipped with DVI-D terminals, it is possible to connect using an HDMI/DVI-D conversion cable, but depending on the combination of devices used the image might not be output.
- When using an HDMI/DVI-D conversion adapter, the image may not be output properly due to poor contact with the connected cable, etc.
- For stable signal transfer, we recommend using cables that are a maximum of 5 meters in length.
Connecting Other Sources

Connecting the MULTI ZONE terminals

For instructions on operations using the MULTI ZONE functions (page 37 ~ 39).

ZONE2 (or ZONE3) pre-out connections

• If another power amplifier or pre-main (integrated) amplifier is connected, the ZONE2 (or ZONE3) pre-out (variable/fixed level) terminals can be used to play a different program source in ZONE2 (or ZONE3) the same time (page 38).
• The ZONE2 (or ZONE3) video out is only for the ZONE2 (or ZONE3).

Connecting the CONTROL terminals

These terminals are used for an external controller.
Perform the following operation before using an external controller connected to the RS-232C terminal:
1. Press the ON/STANDBY button on the main unit and set the unit to the operating mode.
2. Perform the operation to turn off the power from the external control.
3. Check that the product has been set to the standby mode.
After checking the above, check the connections of the external controller. Operation is possible.

Connecting the TRIGGER OUT terminals

Turn the DC 12V voltage on and off for the individual functions and surround modes.
For details, see “Setting the Trigger Out” (page 61).

NOTE:
• For the AUDIO output, use high quality pin-plug cables and wire in such a way that there is no humming or noise.
• For instructions on installation and operation of separately sold devices, refer to the devices’ operating instructions.
Connecting Other Sources

**ZONE2 / ZONE3 speaker out connections**

- When the power amplifier is assigned to the ZONE2 or ZONE3 output channel at “Power Amp Assign” in the “System Setup Menu”, the MAIN ZONE speaker terminals can be used as the ZONE2 or ZONE3 speaker out terminals (page 49, 50).
- The connections diagram below is an example for when the surround back speaker is assigned to the ZONE2 stereo 2 channel. In this case, Surround Back Speaker OUT cannot be used for MAIN ZONE.
Basic Operation

Playback

Operating the remote control unit
The RC-995 remote control has a backlit LCD screen whose contents change according to the mode or function selected, with the appropriate remote commands for that mode or function.

Operate this unit
The AMP button is the main mode for controlling the AVC-A11XV in the main room (MAIN ZONE).

SURROUND MENU
To select specific surround modes.
Press the SURROUND button to display the screen below to choose a specific surround mode.

NUMBER / SYSTEM CALL MENU
Operate the "Number / System call" menu function.
Press the NUMBER / SYSTEM CALL button to display the screen below.

SOURCE MENU
To operate the system's source components.
Press the SOURCE button to display the screen shown below, to that you can select an input source.

- The function switches as shown below each time one of the MODE SELECTOR buttons is pressed.
  - AMP/Z2: AMP, ZONE2
  - Z3/Z4: ZONE3, ZONE4
  (This mode cannot be used with the AVC-A11XV.)

Playing the input source
1. Select the input source to be played.
   Example: CD
   (Main unit) (Remote control unit)
Press the SOURCE button on the main unit then operate the input function selector.

2. Start playback on the selected component.
   For operating instructions, refer to the component's manual.

3. Adjust the volume.
   (Main unit) (Remote control unit)
The volume level is displayed on the master volume level display.

- The volume can be adjusted within the range of –80 to +18 dB, in steps of 0.5 dB. However, when the channel level is set (page 31 or 54, 55), if the volume for any channel is set at +0.5 dB or greater, the volume cannot be adjusted up to 18 dB. (In this case the maximum volume adjustment range is "18 dB — (Maximum value of channel level)").

To choose the surround sound mode
Example: THX Surround EX
Press the SURROUND button, then press the HOME THX CINEMA button.
For more information about the surround modes (page 24, 25).

To select the Room EQ function
Press the ROOM EQ button.
For more information about the Room EQ function (page 22).
Basic Operation

**Basic Operation**

**Playback using the external input (EXT. IN) terminals**

Press the **EXT. IN** button to switch the external input.

- **NOTE:**
  - When the input mode is set to the external input (EXT. IN), the surround mode (DIRECT, STEREO, HOME THX CINEMA, STANDARD, 7CH, STEREO, WIDE SCREEN or DSP SIMULATION) cannot be set.
  - In play modes other than the external input mode, the signals connected to these terminals cannot be played. In addition, signals cannot be output from channels not connected to the input terminals.

**Turning the sound off temporarily (MUTING)**

Use this to mute the audio output temporarily.

- **Press the MUTING button.**
  - You can adjust the muting level (page 50).
  - Cancelling MUTING mode:
    - Press the **MUTING** button again, or press the **VOLUME** button on the remote control, or adjust the volume up or down via the front panel **VOLUME** knob.

**Listening over headphone**

Connect the headphone to the **PHONES** jack.

- **NOTE:**
  - When the input mode is set to the external input (EXT. IN), the surround mode (DIRECT, STEREO, HOME THX CINEMA, STANDARD, 7CH, STEREO, WIDE SCREEN or DSP SIMULATION) cannot be set.
  - In play modes other than the external input mode, the signals connected to these terminals cannot be played. In addition, signals cannot be output from channels not connected to the input terminals.
  - The presence or absence of digital signals is detected, the signals input to the digital input terminals are identified and decoding and playback are performed automatically in DTS, Dolby Digital or PCM (2 channel stereo) format. If no digital signal is being input, the analog input terminals are selected.

**Combining the currently playing sound with the desired image (VIDEO SELECT)**

Press the **VIDEO SELECT** button until the desired image appears.

- **NOTE:**
  - The video source selected with the video select function is stored in the memory for the different input sources.

**Switching the surround speakers**

Press the **SPEAKER** button.

- **NOTE:**
  - This operation is possible when the setting for using both surround speakers A and B is made at “Setting the type of speakers” (page 53).

**Using the dimmer function**

Press the **DIMMER** button.

- **NOTE:**
  - The display brightness changes in four steps (bright, medium, dim and off).

**Input mode**

The AVC-A11XV has an AUTO signal detection mode that automatically identifies the type of incoming audio signals, but is also equipped with a manual mode that can be switched according to the type of input audio signals.

**Selecting the AUTO, PCM and DTS modes**

Press the **INPUT MODE** button.

- **NOTE:**
  - The mode switches as shown below each time the **INPUT MODE** button is pressed.

**On screen display**

Press the **ON SCREEN** button.

- **NOTE:**
  - Each time an operation is performed, a description of that operation appears on the display connected to AVC-A11XV’s VIDEO MONITOR OUT terminal. Also, the unit’s operating status can be checked during playback.

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ENGLISH
**Basic Operation**

**Input mode display**

- In the AUTO mode
- In the DIGITAL PCM mode
- In the DIGITAL DTS mode
- In the ANALOG mode
- In the EXT.IN mode
- DOLBY DIGITAL
- DTS
- PCM

**Input signal display**

- DOLBY DIGITAL
- DTS
- PCM

**Room EQ function**

The AVCA-11XV's Auto Setup / Room EQ function offers three correction curves: "Audyssey", "Front", "Flat". The settings can also be adjusted manually using a graphic equalizer. Details of the different correction curves are described below.

- Audyssey: This adjusts the frequency response of all speakers to correct the effects of room acoustics.
- Front: This adjusts the characteristics of each speaker to the characteristics of the front speakers.
- Flat: This is the frequency response of all speakers flat. This is suitable for multi-channel music reproduction from discrete music sources such as Dolby Digital 5.1, DTS, DVD-Audio, and Super Audio CD.

**Manual:**

Selects the setting value that was set in the Manual EQ Setup.

Press the ROOM EQ button.
- The "Audyssey" is selected, the MultiEQ XT indicator lights green.
- The "Front" or "Flat" is selected, the MultiEQ XT indicator lights red.
- The Room EQ switches as follows each time the ROOM EQ button is pressed:
  - Off
  - Audyssey
  - Front
  - Flat
  - Manual

- The MultiEQ XT indicator also lights red if the "Speaker Configuration", "Delay Time", "Channel Level," or "Crossover Frequency" is set manually after conducting the Auto Setup procedure.

- The "Audyssey", "Front" and "Flat" Room EQ curves can be selected after performing the Auto Setup procedure.

**NOTE:**

- Press the ROOM EQ button. Depending on the input signal.
- DOLBY DIGITAL
- DTS
- PCM
- The "HDCD" indicator lights when digital signals are being input properly. If the "DIG." indicator does not light, check whether the digital input component setup (page 42) and connections are correct and whether the component's power is turned on.
- AL24 processing is activated when PCM signals are played while the surround mode is set to PURE DIRECT, DIRECT, STEREO, MULTI CH PURE DIRECT, MULTI CH DIRECT or MULTI CH IN.

**NOTE:**

- The "DIG." indicator will light when playing CD-ROMs containing data other than audio signals, but no sound will be heard.

---

**Selecting the analog mode**

Press the ANALOG button to switch to the analog input.

**ANALOG:** (exclusive analog audio signal playback mode)

The signals input to the analog input terminals are decoded and played.

**NOTE:**

- Input mode when playing DTS sou cac.
  Noise will be output if DTS-compatible CDs or LDs are played in the "ANALOG" or "PCM" mode.
  When playing DTS-compatible sources, be sure to connect the source component to the digital input terminals (OPTICAL/COAXIAL) and set the input mode to "DTS".

- The "DIG." indicator lights when digital signals are being input properly. If the "DIG." indicator does not light, check whether the digital input component setup (page 42) and connections are correct and whether the component's power is turned on.
- AL24 processing is activated when PCM signals are played while the surround mode is set to PURE DIRECT, DIRECT, STEREO, MULTI CH PURE DIRECT, MULTI CH DIRECT or MULTI CH IN.

- The "DIG." indicator will light when playing CD-ROMs containing data other than audio signals, but no sound will be heard.

---

**Basic Operation**

**DTS:** (exclusive DTS signal playback mode)

Decoding and playback are only performed when DTS signals are being input.

**NOTE:**

- Input mode when playing DTS sources:
  Noise will be output if DTS-compatible CDs or LDs are played in the "ANALOG" or "PCM" mode.
  When playing DTS-compatible sources, be sure to connect the source component to the digital input terminals (OPTICAL/COAXIAL) and set the input mode to "DTS".

- The "DIG." indicator lights when digital signals are being input properly. If the "DIG." indicator does not light, check whether the digital input component setup (page 42) and connections are correct and whether the component's power is turned on.
- AL24 processing is activated when PCM signals are played while the surround mode is set to PURE DIRECT, DIRECT, STEREO, MULTI CH PURE DIRECT, MULTI CH DIRECT or MULTI CH IN.

- The "DIG." indicator will light when playing CD-ROMs containing data other than audio signals, but no sound will be heard.

---

**NOTE:**

- Input mode when playing DTS sou cac.
  Noise will be output if DTS-compatible CDs or LDs are played in the "ANALOG" or "PCM" mode.
  When playing DTS-compatible sources, be sure to connect the source component to the digital input terminals (OPTICAL/COAXIAL) and set the input mode to "DTS".

- The "DIG." indicator lights when digital signals are being input properly. If the "DIG." indicator does not light, check whether the digital input component setup (page 42) and connections are correct and whether the component's power is turned on.
- AL24 processing is activated when PCM signals are played while the surround mode is set to PURE DIRECT, DIRECT, STEREO, MULTI CH PURE DIRECT, MULTI CH DIRECT or MULTI CH IN.

- The "DIG." indicator will light when playing CD-ROMs containing data other than audio signals, but no sound will be heard.
## Basic Operation
### Surround

#### Playing modes for different sources

The AVC-A11XV is equipped with many surround modes. We recommend using the surround modes as described below in order to achieve the maximum effect for the specific signal source.

- **Surround back speaker** is a 6.1-channel/7.1-channel surround mode.

<table>
<thead>
<tr>
<th>Sources recorded in Dolby Digital Surround EX</th>
<th>Dolby Digital or DTS Surround (5.1 ch sources)</th>
<th>Sources recorded in DTS-ES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>THX SURROUND EX</strong> (page 29)</td>
<td><strong>THX Ultra2 CINEMA</strong>¹¹ / <strong>THX MUSIC MODE</strong>¹¹ / <strong>THX Games Mode</strong>¹¹ / <strong>PLIIx+C+THX</strong> (page 26)</td>
<td><strong>DTS ES DSCRT 6.1 / MTRX 6.1, +PLIIx</strong>¹¹ (page 26)</td>
</tr>
<tr>
<td>Maximum performance for playing movies on the AVC-A11XV.</td>
<td>These modes are suited for playing 5.1-channel sources in 7.1 channels. Select the desired surround mode for the movie and music sources.</td>
<td>This mode is optimized for playing sources recorded in DTS-ES DSCRT 6.1 or MTRX 6.1.</td>
</tr>
<tr>
<td><strong>DOUBLY DIGITAL EX / +PLIIx</strong>¹¹ (page 26)</td>
<td><strong>WIDE SCREEN</strong> (page 29, 30)</td>
<td><strong>ES DSCRT 6.1+THX / ES MTRX 6.1+THX</strong> (page 25)</td>
</tr>
<tr>
<td>This mode is optimized for playing sources recorded in Dolby Digital Surround EX.</td>
<td>Effective for 2-channel sources recorded in Dolby Surround or for 7.1-channel playback with 5.1-channel sources.</td>
<td>When playing movies, setting this mode sometimes results in a more natural sound. Select the mode as desired.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sources recorded in stereo</th>
<th>Sources recorded in monaural</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HOME THX CINEMA (THX 5.1)</strong> (page 24)</td>
<td><strong>DENON Original Surround Modes</strong> (page 29, 30)</td>
</tr>
<tr>
<td>This mode is optimized for playing 5.1-channel movies. For sources recorded in Dolby Surround as well, this mode provides the same power as 5.1-channel sources.</td>
<td>Select these for 7.1-channel playback with sources recorded in stereo or monaural. The effects are different for each of the surround modes. Select the one most suited for the source being used.</td>
</tr>
<tr>
<td><strong>DOLBY DIGITAL / DOLBY DIGITAL+ +PLIIx</strong>²¹ / <strong>DTS SURROUND / DTS 96/24 / DTS+PLIIx²¹</strong></td>
<td><strong>DTS NEO:6</strong> (page 28)</td>
</tr>
<tr>
<td>Developed by Dolby Laboratories, this surround mode provides 7.1-channel surround sound with conventional stereo (2-channel) sources.</td>
<td>This is a surround mode for playing 6.1- or 7.1-channel stereo sources developed by Digital Theater Systems. One of two playing modes, MUSIC (for music sources) or CINEMA (for movie sources), can be selected according to your preferences.</td>
</tr>
</tbody>
</table>

### Dolby Digital or DTS Surround (5.1 ch sources)

2 ch sources recorded in Dolby Surround

- **THX Ultra2 CINEMA**¹¹ / **THX MUSIC MODE**¹¹ / **THX Games Mode**¹¹ / **PLIIx+C+THX** (page 26)
  - These modes are suited for playing 5.1-channel sources in 7.1 channels. Select the desired surround mode for the movie and music sources.

#### Sources recorded in Dolby Digital Surround EX

- **THX SURROUND EX** (page 29)
  - Maximum performance for playing movies on the AVC-A11XV.

#### Sources recorded in DTS-ES

- **DTS ES DSCRT 6.1 / MTRX 6.1, +PLIIx**¹¹ (page 26)
  - This is the optimum mode for playing sources recorded in DTS-ES DSCRT 6.1 or MTRX 6.1.

#### Sources recorded in stereo

- **HOME THX CINEMA (THX 5.1)** (page 24)
  - This mode is optimized for playing 5.1-channel movies. For sources recorded in Dolby Surround as well, this mode provides the same power as 5.1-channel sources.

#### Sources recorded in monaural

- **DTS NEO:6** (page 28)
  - This is a surround mode for playing 6.1- or 7.1-channel stereo sources developed by Digital Theater Systems. One of two playing modes, MUSIC (for music sources) or CINEMA (for movie sources), can be selected according to your preferences.

---

### Note:
- Surround modes indicated with an asterisk (*1) require the use of two surround back speakers.
- Surround modes marked with an asterisk (*2) cannot be used when the surround back speaker is set to “NONE.”
- The “+PLIIx Cinema” mode cannot be selected when only one surround back speaker is being used.

---

### Conclusion

- Though we recommend selecting the surround mode as described above, other surround modes can also be selected.
Basic Operation

Press the DIRECT/STEREO button to select the STEREO mode. Use this mode to adjust the tone and achieve the desired sound.

Playing audio sources (CDs and DVDs)

2-channel playback modes

- The AVC-A11XV is equipped with three 2-channel playback modes exclusively for music.
- Select the mode to suit your tastes.

**PURE DIRECT mode**
This mode reproduces the sound with extremely high quality. When this mode is set, all circuits and processes not required for the selected input source (IF tube, video circuit and tone control, as well as digital circuitry and other unnecessary circuits for analog audio inputs) are automatically turned off so the music signals can be reproduced with high sound quality.

Press the PURE DIRECT button to select the PURE DIRECT mode.

**DIRECT mode**
Use this mode to achieve good quality 2-channel sound. In this mode, the audio signals bypass such circuits as the tone circuit and are transmitted directly, resulting in good quality sound.

Press the DIRECT/STEREO button to select the DIRECT mode.

- The mode switches as shown below each time the DIRECT/STEREO button on the main unit is pressed.

<table>
<thead>
<tr>
<th>DIRECT</th>
<th>STEREO</th>
</tr>
</thead>
</table>

**THX surround EX / Home THX cinema mode**

When the HOME THX CINEMA button is pressed, the surround mode is set as follows according to the signal that is played:

1. THX Surround EX (THX Ultra2 Cinema)
2. Home THX CINEMA (PLIIx C + THX)
3. THX 5.1
4. ES DSCRT 6.1 + THX, ES MTRX 6.1 + THX

When the HOME THX CINEMA mode is set when a DVD is played, check the DVD player’s digital output setting and change the setting to one for which Dolby Digital and DTS bitstream signals can be output (“bitstream”, for example).

**Playing sources recorded in Dolby surround in the Home THX cinema mode**

1. Press the HOME THX CINEMA button to select the “Home THX Cinema” mode.
2. Play a program source with the mark.
3. Press the SURROUND PARAMETER button.
4. Press the CURSOR button to select the parameter.
5. Press the CURSOR button to select the setting.
6. Press the ENTER or SURROUND PARAMETER button to complete the setting.

**Surround parameters**

- **DECODER:** Select the decoder to be used when playing 2-channel sources in the Home THX Cinema mode.
  - **PLIIx C:** The signals are decoded in the Dolby Pro Logic IIx Cinema mode before undergoing THX processing.
  - **PL II:** The signals are decoded in the Dolby Pro Logic II Cinema mode before undergoing THX processing.
  - **NEO:6 C:** The signals are decoded in the NEO 6 Cinema mode before undergoing THX processing.

- **MODE/SUB CH OUT:** Select the surround back channel playback method or mode.
  - **ON:** This is the recommended play mode for using the surround back channel when DTS NEO:6 is selected.
  - **OFF:** This is the recommended play mode when Dolby Pro Logic II is selected. The surround back channel is not played.
Checking the input signal

The input signal can be checked by pressing the remote control unit's ON SCREEN button ( page 21).

**SIGNAL:**
- Displays the type of signal (DTS, DOLBY DIGITAL, PCM, etc.).

**Fs:**
- Displays the input signal’s sampling frequency.

**FORMAT:**
- Displays the number of input signal's channels.

**OFFSET:**
- Displays the dialog normalization offset value ( page 26).

**FLAG:**
- Displays the special identification signal recorded in the input signal ( page 26).

- "MATRIX" is displayed when matrix processing is conducted on the surround back channel.
- "DISCRETE" is displayed when discrete processing is conducted.

- Not displayed when no identification signal is recorded.

NOTE:
- **OSD-2:**
  - The monitor’s resolution is displayed when an HDMI monitor is connected to the AVC-A11XV.
  - This is displayed when the auto surround mode is set to "ON" ( page 47) and the input mode is set to "AUTO".
  - It is not displayed when the input mode is set to "ANALOG" or "EXT. IN".

- **OSD-3:**
  - In addition, screen information is displayed in the following order when the ON SCREEN button is pressed repeatedly:
    - OSD-1 Audio input signal
    - OSD-2 Monitor information
    - OSD-3 Input/output
    - OSD-4 Auto surround mode
    - OSD-5 USER MODE 1
    - OSD-6 USER MODE 2
    - OSD-7 USER MODE 3

**NOTE:**
- **OSD-2:**
  - The monitor’s resolution is displayed when an HDMI monitor is connected to the AVC-A11XV.

**DOLBY DIGITAL**
- When playing Dolby Digital sources.

**DTS**
- When playing DTS sources.

**SURROUND BACK CH**
- Lights when the Surround Back CH is on.

**STATUS**
- The channel status information during playback of Dolby Digital and DTS sources can be checked by pressing the STATUS button on the main unit.

**SURROUND BACK**
- Press the SURROUND BACK button.

- Lights when the Surround Back CH is on.

**MODE/SB CH OUT**
- Select the surround back channel playback method or mode.

1. To play in the THX surround EX / Home THX Cinema surround mode for sources recorded in Dolby Digital or DTS
   - Press the HOME THX CINEMA button to select the "Home THX Cinema" mode.

2. Play a program source with the mark.
   - The Dolby Digital indicator lights when playing Dolby Digital sources.
   - The DTS indicator lights when playing DTS sources.

- For operating instructions, refer to the manuals of the respective components.

- The channel status information during playback of Dolby Digital and DTS sources can be checked by pressing the STATUS button on the main unit.

- Press the SURROUND BACK button.

- Lights when the Surround Back CH is on.

**Surround parameters**

<table>
<thead>
<tr>
<th>MODE/SB CH OUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select the surround back channel playback method or mode.</td>
</tr>
</tbody>
</table>

1. Multi channel source
   - **THX Surround EX:** Dolby Digital signals are played in the THX Surround EX mode.
   - **Ultra2 Cinema:** The signals are played in the THX Ultra2 Cinema mode.
   - **Music Mode:** The signals are played in the THX Music mode.
   - **Games Mode:** The signals are played in the THX Games mode.
   - **NON MTRX:** The same signals as those of the surround channels are output from the surround back channels.
   - **MTRX ON:** The surround channel signals undergo digital matrix processing and are output from the surround back channels.
   - **SB OFF (OFF):** No signal is played from the surround back channels.
   - **ES MTRX:** When playing DTS signals, the surround back signals undergo digital matrix processing for playback.
   - **ES DISCRT:** When a signal identifying the source as a discrete 6.1-channel source is included in the DTS signals, the surround back signals included in the source are played.
   - **PLEx Cinema:** Processing is performed with the Cinema mode of the PLEx decoder and the Surround Back channel is reproduced.
   - **PLEx Music:** Processing is performed with the Music mode of the PLEx decoder and the Surround Back channel is reproduced.

2. 2ch source
   - **OFF:** Playback is conducted without using the surround back speaker.
   - **ON:** Playback is conducted using the surround back speaker.

   This operation can be performed directly pressing the SURROUND BACK button.
Basic Operation

AFDM (Auto Flag Detect Mode):
• On:
  This function only works with software on which a special identification signal is recorded. This software is scheduled to go on sale in the future. This is a function for automatically playing in the 5.1-channel mode using the surround back speaker(s) if the software is recorded in Dolby Digital EX or DTS-ES or in the normal 5.1-channel mode without using the surround back speaker(s) when the software is not recorded in Dolby Digital EX or DTS-ES.
  When AFDM is set to “ON” and the EX/ES flag is detected automatically, the surround mode is fixed according to the playing program source. In this case, the “MODEL/SB CH OUT” parameter can be selected on the surround parameter screen.
  • OFF:
  When the identification signal is detected automatically and you would like to select the surround mode freely, set AFDM to “OFF”.
  In this case the “MODEL/SB CH OUT” parameter can be selected on the surround parameter screen regardless of the playing program source.

Example: When playing software that has a Dolby Digital EX flag
1. When AFDM is set to “ON”, the surround mode is automatically set to the “DOLBY DIGITAL + PL IIx CINEMA” mode. The surround parameter screen will be displayed.

2. When you would like to play back with the “Dolby Digital EX” mode, set AFDM to “OFF” and select “MTRX ON” with “SB CH OUT”.

Dolby Digital mode and DTS surround (only with digital input)

1. Press the STANDARD button to select the “STANDARD (Dolby/DTS Surround)” mode.
2. Play a program source with the mark.
   • The Dolby Digital indicator lights when playing Dolby Digital sources.
   • The DTS indicator lights when playing DTS sources.
3. Press the SURROUND BACK button. Lights when the Surround Back CH is on.
4. Press the SURROUND PARAMETER button to select the parameter.
5. Press the CURSOR < or > button to select the setting.
6. Press the ENTER or SURROUND PARAMETER button to complete the setting.

When “Default” is selected and the CURSOR < button is pressed, “CINEMA EQ.” and “D.COMP.” are automatically turned off, “LFE” is reset, and “TONE” is set to the default value.

Surround parameters

CINEMA EQ. (Cinema Equalizer):
The Cinema EQ function gently decreases the level of the extremely high frequencies, compensating for overly-bright sounding motion picture soundtracks. Select this function if the sound from the front speakers is too bright.

This function only works in the Dolby Pro Logic II, Dolby Pro Logic IIx, Dolby Digital, DTS Surround, DTS NEO:6 and WIDE SCREEN modes.

D.COMP. (Dynamic Range Compression):
Motion picture soundtracks have tremendous dynamic range (the contrast between very soft and very loud sounds). For listening late at night, or whenever the maximum sound level is lower than normal, the Dynamic Range Compression allows you to hear all of the sounds in the soundtrack but with reduced dynamic range (the contrast between very soft and very loud sounds). This only works when playing program sources recorded in Dolby Digital or DTS. Select one of the four parameters (“OFF”, “LOW”, “MID” (middle) or “HI” (high)). Set to OFF whenever the maximum sound level is lower than normal listening.

This parameter is displayed only when playing compatible sources in DTS mode.

LFE (Low Frequency Effects):
This sets the level of the LFE (Low Frequency Effect) sounds included in the source when playing program sources recorded in Dolby Digital or DTS. Program source and adjustment range:
1. Dolby Digital: –10 dB to 0 dB
2. DTS Surround: –10 dB to 0 dB

When DTS encoded movie software is played, it is recommended that the LFE LEVEL be set to –0 dB for correct DTS playback.

When DTS encoded music software is played, it is recommended that the LFE LEVEL be set to –10 dB for correct DTS playback.

Dialogue Normalization

The dialogue normalization function is activated automatically when playing Dolby Digital program sources.

Dialogue normalization is a basic function of Dolby Digital which automatically normalizes the dialog level (standard level) of the signals which are recorded at different levels for different program sources, such as DVD, DTS and other future formats that will use Dolby Digital.

When this function is activated, the following message appears on the main unit’s display:

The number indicates the normalization level when the currently playing program is normalized to the standard level.
Basic Operation

Dolby Pro Logic IIx (Pro Logic IIx) mode

- To play in the PL IIx mode, set “Sp.Back” at the Speaker Configuration setting to “1spkr” or “2spkrs”.
- To play in the PL IIx mode, set “Surround Back” at the Power Amp Assign setting.

1. Press the STANDARD button to select the “Dolby Pro Logic IIx” mode.
   - The Dolby Pro Logic indicator lights.
2. Play a program source with the mark.
   - For operating instructions, refer to the manuals of the respective components.
3. Press the SURROUND PARAMETER button.
   - Display the surround parameter menu.
4. Press the CURSOR < or > button to select the play mode.
   - When the “SB CH OUT” parameter is set to “ON”, set “SP.Back” at the System Setup to “1spkr” or “2spkrs”.
5. Press the CURSOR △ or ▽ button to select the various surround parameters.
   - Display MODE: PL x C
   - Display MODE: PL x M
   - Display MODE: PL x G
   - Display DOLBY PL (Pro Logic IIx Cinema mode)
   - Display DOLBY PL (Pro Logic IIx Music mode)
   - Display DOLBY PL (Pro Logic IIx Game mode)
   - Display Dolby Pro Logic model
   - Display PANORAMA:
   - Display DIMENSION:
   - Display CENTER WIDTH:

5. Press the CURSOR △ or ▽ button to select the various surround parameters.
   - Example: DOLBY PL IIx music mode screen

6. Press the CURSOR < or > button to adjust the parameters setting.
   - DEFAULT setting:
     - Press the CURSOR < button to select “Default Yes”, then parameters set to default setting.
8. Press the ENTER button to return to the previous screen.

7. Press the ENTER or SURROUND PARAMETER button to complete the setting.

- There are four Dolby Surround Pro Logic modes (NORMAL, PHANTOM, WIDE and 3 STEREO). The AVC-A11XV sets the modes automatically according to the types of speakers set during the system setup process (page 53).
**DTS NEO:6 Mode**

Surround playback can be performed for the analog input and digital input 2-channel signals.

1. Press the **STANDARD** button to select the “DTS NEO:6” mode.
   - The DTS NEO 6 indicator lights.
2. Press the **SURROUND PARAMETER** button. **Display the surround parameter menu.**
   - When “Default” is selected and the **CURSOR** button is pressed, “MODE” and “TONE” are automatically reset to the default values and “CINEMA EQ.” is set to “OFF.”
   - When playing PCM digital signals or analog signals in the DOLBY PRO LOGIC II, DOLBY PRO LOGIC IIx, DTS NEO 6 modes and the input signal switches to a digital signal encoded in Dolby Digital, the Dolby surround mode switches automatically. When the input signal switches to a DTS signal, the mode automatically switches to DTS surround.
3. Press the **SURROUND PARAMETER** button to complete the setting.

**Surround parameters**

**DTS NEO:6 Mode:**
- **Cinema:** This mode is optimum for playing movies. Decoding is performed with emphasis on separation performance to achieve the same atmosphere with 2-channel sources as with 6.1-channel sources.
  - This mode is effective for playing sources recorded in conventional surround formats as well, because the in-phase component is assigned mainly to the center channel (C) and the reversed phase component to the surround (SL, SR and SB channels).
- **Music:**
  - This mode is suited mainly for playing music. The front channel (FL and FR) signals bypass the decoder and are played directly so there is no loss of sound quality, and the effect of the surround signals output from the center (C) and surround (SL, SR and SB) channels add a natural sense of expansion to the sound field.
  
**CENTER IMAGE (0.0 to 1.0: default 0.3):**
- The center image parameter for adjusting the expansion of the center channel in the DTS NEO:6 MUSIC mode has been added.

**The Dolby Headphone**

The Dolby Headphone mode is set when headphones are connected to the PHONES jack while in the DOLBY/DTS SURROUND mode.

1. Press the **SURROUND PARAMETER** button. **Display the surround parameter menu.**
2. Press the **CURSOR** button to select the parameter.
3. Press the **CURSOR** button to select the setting.
4. Press the **ENTER** or **SURROUND PARAMETER** button to complete the setting.

**Parameters**

**MODE:**
- **DHT:** Reference room (small room with weak reverberations).
- **DHI:** Live room (room with a bit stronger reverberations than DHT).
- **DHL:** Large room (larger room than DHI, offers a sense of distance and sound diffusion effects).
- **BYPASS:**

  Stereo sound.

**DECODER:**
- Select this when playing analog, PCM or other 2-channel sources.
- The signals are converted into multichannel signals using the decoders shown below and played in the Dolby Headphone mode.
  - **PL II C:** Dolby Pro Logic II Cinema mode.
  - **PL II M:** Dolby Pro Logic II Music mode.
  - **NEO:6 C:** DTS NEO 6 Cinema mode.
  - **NEO:6 M:** DTS NEO 6 Music mode.
  - **OFF:** The signals are played in the Dolby Headphone mode as such (2 channels).

**Recording**
- When RECOUT mode is set to “SOURCE”, with this amplifier, signals encoded in the Dolby Headphone mode can be output from the recording output terminals and recorded on another recorder (page 40).
Memory and call-out functions
(USER MODE function)

- The AVCA11XV is equipped with a function for storing the selected input source, the auto surround mode and input mode in the memory and selecting these settings when you want to use them.
- Three patterns of settings can be stored in the memory pressing the USER MODE buttons.

1 Storing the settings in the memory
The following are stored in the memory:
1. Currently set input source
2. Currently set auto surround mode
3. Currently set input mode

2 Press and hold the USER MODE button at which you want to store the settings.
   • In this case, press the button and hold it in until the indicator of the selected USER MODE button lights.

Calling the settings out
Press the USER MODE button at which the settings you want to call out are stored.
• The indicator for the selected USER MODE button lights.
• The indicator turns off if you perform any operations that change the settings stored at the USER MODE buttons.

DENON original surround modes
The AVCA11XV is equipped with a high performance DSP (Digital Signal Processor) which uses digital signal processing to synthetically recreate the sound field. One of nine preset surround modes can be selected according to the program source and the parameters can be adjusted according to the conditions in the listening room to achieve a more realistic, powerful sound.

Surround modes and their features

1 WIDE SCREEN
   Select this to achieve an atmosphere like that of a movie theater with a large screen. In this mode, all signal sources are played in the 7.1-channel mode, including Dolby Surround and Dolby Digital 5.1-channel sources. Effects simulating the multi surround speakers of movie theaters are added to the surround channels.

2 SUPER STADIUM
   Select this when watching baseball or soccer programs to achieve a sound as if you were actually at the stadium. This mode provides the longest reverberation signals.

3 ROCK ARENA
   Use this mode to achieve the feeling of a live concert in an arena with reflected sounds coming from all directions.

4 JAZZ CLUB
   This mode creates the sound field of a live house with a low ceiling and hard walls. This mode gives jazz a very vivid realism.

5 CLASSIC CONCERT
   Select this for the sound of a concert hall rich in reverberations.

6 MONO MOVIE (NOTE)
   Select this when watching monaural movies for a greater sense of expansion.

7 VIDEO GAME
   Use this to enjoy video game sources.

8 MATRIX
   Select this to emphasize the sense of expansion for music sources recorded in stereo. Signals consisting of the difference component of the input signals (the component that provides the sense of expansion) processed for delay are output from the surround channel.

9 7CH STEREO
   The front left channel signals are output to the surround and surround back signal left channels, the front right channel signals are output to the surround and surround back signal right channels, and the in-phase component of the left and right channels is output to the center channel. Use this mode to enjoy stereo sound.

NOTE: Depending on the program source being played, the effect may not be very noticeable.
In this case, try other surround modes, without worrying about their names, to create a sound field suited to your tastes.

NOTE: When playing sources recorded in monaural, the sound will be one-sided if signals are only input to one channel (left or right), so input signals to both channels. If you have a source component with only one audio output (monophonic camcorder, etc.) obtain a “Y” adaptor cable to split the mono output to two outputs, and connect to the L and R inputs.

Personal Memory Plus
This set is equipped with a personal memorize function that automatically memorizes the surround modes and input modes selected for the input different source. When the input source is switched, the modes set for that source last time it was used are automatically recalled.
• The surround parameters, tone control settings and playback level balance for the different output channels are memorized for each surround mode.
**Basic Operation**

**DSP surround simulation**

1. Select the surround mode for each input channel.
   - Example: DSP surround simulation mode
     - (Remote control unit): (Remote control unit)
   - Example: 7CH STEREO mode
     - (Remote control unit): (Remote control unit)
   - The surround mode switches in the following order each time the **DSP SIMULATION** button is pressed:
     - WIDE SCREEN, JAZZ CLUB, SUPER STADIUM, ROCK ARENA, MATR\{X, VIDEO GAME, CLASSIC CONCERT

2. Press the **SURROUND PARAMETER** button.
   - Display the surround parameter menu.
   - The screen for the selected surround mode appears.

3. Press the **CURSOR Δ or \( \nabla \)** button to select the various surround parameters.

4. Press the **CURSOR < or >** button to adjust the parameters setting.

5. Press the **ENTER** or **SURROUND PARAMETER** button to complete the setting.

**Surround parameters**

**EFFECT:**
This parameter turns the effect signals with multi-surround mode speaker effects on and off in the WIDE SCREEN mode. When this parameter is turned off, the SBL and SBR channel signals are equivalent to the SL and SR channels, respectively.

**LEVEL:**
This parameter sets the strength of the effect signals in the WIDE SCREEN mode. It can be set in 15 steps, from "1" to "15." Set this to a low level if the positioning or phase of the surround signals sounds unnatural.

**SB CH OUT:**
- **ON:** Playback is conducted using the surround back speaker.
- **OFF:** Playback is conducted without using the surround back speaker.

**NOTE:**
This operation can be performed directly pressing the **SURROUND BACK** button on the main unit's panel.

**ROOM SIZE:**
This sets the size of the sound field. There are five settings: "small," "med.s" (medium-small), "medium," "med.l" (medium-large) and "large." "small" recreates a small sound field, "large" a large sound field.

**EFFECT LEVEL:**
This sets the strength of the surround effect. The level can be set in 15 steps from 1 to 15. Lower the level if the sound seems distorted.

**DELAY TIME:**
In the matrix mode only, the delay time can be set within the range of 0 to 300 ms.

**SW ATT.**
This is the parameter for reducing the level of the subwoofer channel when playing in the EXT. IN input mode. Depending on the player you are using, the subwoofer channel's playback level may seem too high. If so, set "SW ATT." to "ON." For DENON players, use with the default settings ("OFF").

**Subwoofer ON/OFF:**
The subwoofer output can be controlled directly.
Basic Operation

**Tone control setting**
- Use the tone control setting to adjust the bass and treble as desired.
- The tone control function will not work in the PURE DIRECT, DIRECT or Home THX Cinema mode.

**Adjusting the tone**

1. Press the SURROUND PARAMETER button.
   - Display the surround parameter menu.
   - The screen selected surround mode appears.

2. Press the CURSOR D or H button to select the “TONE”.

3. Press the CURSOR < button.
   - Switch to the “Tone Control” screen.

4. Press the CURSOR D button to select the “Tone Defeat OFF”.

5. Press the CURSOR D or V button to select the “Bass” or “Treble”.

6. Press the CURSOR < or > button to set the level.
   - To increase the bass or treble:
     The bass or treble sound can be increased to up to +6 dB in steps of 1 dB.
   - To decrease the bass or treble:
     The bass or treble sound can be decreased up to –6 dB in steps of 1 dB.

7. Press the ENTER button.
   - The surround parameter menu screen reappears.

8. Press the ENTER or SURROUND PARAMETER button to complete the setting.

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

1. Press the ENTER button.
   - Display the “Channel Vol.” screen.

2. Press the CURSOR D, V or ENTER button to select the speaker.
   - The channel switches as shown below each time the ENTER button is pressed.

3. Press the CURSOR < or > button to adjust the level.
   - The adjustment range for the different channels is +12 dB to –12 dB in steps of 0.5 dB.
   - The sound from the subwoofer can be completely cut by lowering the SW (subwoofer) setting one additional from –12 dB (setting it to "OFF").

4. When the surround back speaker setting is set to “1spkr” for “Speaker Configuration” (page 53), this is set to “SB”.

---

**Basic Operation**

31
Basic Operation

Fader function
This function makes it possible to lower the volume of the front channels (FL, C and FR) or the rear channels (SL, SR, SBL and SBR) together. Use it for example to adjust the balance of the sound from each position when multi-channel music sources are played.

1 Press the ENTER button.
   • Display the “Channel Vol.” screen.

2 Press the CURSOR D, H or ENTER button to select “Fader”.

3 Press the CURSOR F button to reduce the volume of the front channels, the CURSOR G button to reduce the volume of the rear channels.

Example:
   When “FRONT” is selected

   The fader function does not affect the subwoofer channel.

   • The channel whose channel level is adjusted lowest can be faded to −12 dB using the fader function.
   • If the channel levels are adjusted separately after adjusting the fader, the fader adjustment values are cleared, so adjust the fader again.

Advanced Operation

Remote control unit

Operating DENON audio components

1 Press the MODE SELECTOR buttons to select the component you want to operate.

   The function switches as shown below each time one of the MODE SELECTOR buttons is pressed.

   AMP/Z2 : AMP, ZONE2
   Z3/Z4 : ZONE3, ZONE4
   TUN/D-TU : TUNER, D-TUNER*
   CD/CDR : CD, CDR
   TV/DBS : TV, DBS
   VCR1/VCR2 : VCR1, VCR2
   VDP : VDP
   DVD/DVDR : DVD, DVDR
   (*) : This mode is for future use.

   Example:
   Select “AMP” mode.

   AMP
   Select “ZONE2” mode.

2 Operate the audio component.
   • For details, refer to the component’s operating instructions.
   • It may not be possible to operate some models.

3 SOURCE MENU
   Operate the source.

SURROUND MENU
   Operate the “Surround” mode.

NUMBER / SYSTEM CALL MENU
   Operate the “Number” or “System call” mode.
**Advanced Operation**

1. CD player (CD) system buttons

- **<, >**: Manual search (forward and reverse)
- **■**: Stop
- **►**: Play
- **<, >>**: Auto search (to beginning of track)
- **II**: Pause
- **0 ~ 9, +10**: Number

2. MD recorder (MD), CD recorder (CDR), Tape deck (TAPE) system buttons

- **<, >>**: Manual search (forward and reverse)
- **■**: Stop
- **►**: Play
- **<, >>**: Auto search (to beginning of track)
- **II**: Pause
- **0 ~ 9, +10**: Number

- **•**: Tuning up/down
- **^**: Switch between AM and FM bands
- **MODE**: Switch between AUTO and MANUAL
- **MEM**: Preset memory
- **SFT**: Switch preset channel range
- **CH +, –**: Preset channel up/down
- **A ~ G**: Preset channel range
- **1 ~ 8**: Preset channel

**Preset memory**

The included remote control unit can be used to operate devices of different brands by registering the preset number corresponding to the brand of your device. For some models, the remote control unit or the device may not operate properly. In this case, use the learning function (page 35) to store your device’s remote control signals in the included remote control unit. For instructions on resetting the preset memory (page 36).

1. Press the ON and OFF button at the same time.
2. Press the 1 button to select preset memory.
   - **Setup List**
     1: Preset memory
     2: Learning setup
     3: System call
     4: Punch through
     5: Light setup
     6: Reset
3. Press the MODE SELECTOR button for the component you want to preset, then press the ENTER button.

**Note**: Presetting is not possible for the AMP, ZONE2, ZONE3, ZONE4, TUNER, and D-TUNER modes.
Operating a component stored in the preset memory

1. Press the MODE SELECTOR button for the component you want to operate.
2. Operate the component.
   - For details, refer to the component's operating instructions.
   - Some models cannot be operated with this remote control unit.

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

NOTE:
- Depending on the model and year of manufacture, this function cannot be used for some models, even if the your device is listed on the included list of preset codes.
- Some manufacturers use more than one type of remote control code. Refer to the included list of preset codes to change the number and check it out.

The preset codes are as follows upon shipment from the factory and after resetting:
- TV, VCR1 ...............................................HITACHI
- CD, CDR, VDP, DVD, DVDR ...............DENON
- VCR2, DBS ............................................SONY

<table>
<thead>
<tr>
<th>DVD preset codes</th>
<th>0000 (default)</th>
<th>0517</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DVD-550</td>
<td>DVD-800</td>
</tr>
<tr>
<td></td>
<td>DVD-552</td>
<td>DVD-802</td>
</tr>
<tr>
<td></td>
<td>DVD-900</td>
<td>DVD-2000</td>
</tr>
<tr>
<td></td>
<td>DVD-1900</td>
<td>DVD-2500</td>
</tr>
<tr>
<td></td>
<td>DVD-2400</td>
<td>DVD-3000</td>
</tr>
<tr>
<td></td>
<td>DVD-1200</td>
<td>DVD-3500</td>
</tr>
<tr>
<td></td>
<td>DVD-1101</td>
<td>DVD-4000</td>
</tr>
<tr>
<td></td>
<td>DVD-1110</td>
<td>DVD-4500</td>
</tr>
<tr>
<td></td>
<td>DVD-1111</td>
<td>DVD-5000</td>
</tr>
<tr>
<td></td>
<td>DVD-2200</td>
<td>DVD-6000</td>
</tr>
</tbody>
</table>

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

---

1. DVD player (DVD), DVD recorder (DVD R) system buttons
2. Video disc player (VDP) system buttons

<table>
<thead>
<tr>
<th>SRC ON</th>
<th>Power on/on Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Power off</td>
</tr>
<tr>
<td></td>
<td>DENON DVD only</td>
</tr>
<tr>
<td></td>
<td>Manual search</td>
</tr>
<tr>
<td></td>
<td>Forward/reverse</td>
</tr>
<tr>
<td></td>
<td>Stop</td>
</tr>
<tr>
<td></td>
<td>Play</td>
</tr>
<tr>
<td></td>
<td>Auto seek/ch</td>
</tr>
<tr>
<td></td>
<td>(to beginning of track)</td>
</tr>
<tr>
<td></td>
<td>Pause</td>
</tr>
<tr>
<td>SETUP</td>
<td>Setup</td>
</tr>
<tr>
<td>TOP</td>
<td>Top menu</td>
</tr>
<tr>
<td>MENU</td>
<td>Menu</td>
</tr>
<tr>
<td>RTN</td>
<td>Return</td>
</tr>
<tr>
<td>ENTER</td>
<td>Cursor up, down, left and right</td>
</tr>
<tr>
<td>AUD</td>
<td>Switch the audio language</td>
</tr>
<tr>
<td>DISP</td>
<td>Display</td>
</tr>
<tr>
<td>SUB</td>
<td>Switch the subtitle</td>
</tr>
<tr>
<td>AGL</td>
<td>Switch the angle</td>
</tr>
<tr>
<td>0 - 9, +10</td>
<td>Number</td>
</tr>
</tbody>
</table>
4. Monitor TV (TV), digital broadcast satellite (DBS) tuner and cable (CABLE) system buttons

- SRC ON: Power on/Standby
- TOP: Top menu
- RTN: Return
- c, d, b, a: Cursor up, down, left and right
- ENTER: Enter
- DISP: Switch display
- CH +, –: Switch channels +, –
- 0 ~ 9, +10: Number
- TV/VCR: Switch between TV and video player
- •, ª: Volume up/down
- The preset codes of cable box decoder can be re-coded in the DBS mode so that the cable device can be operated (page 33, 34).

5. Point the remote control units directly at each other and press and hold in the button on the other remote control unit which you want to “learn”.
- “OK” appears on the remote control unit’s display and learning is completed.
- Other keys can be “learned” by repeating steps 5.
- “FAIL” appears on the remote control unit’s display, repeating steps 4 and 5.
- The mode can be switched by pressing a MODE SELECTOR button.
- The buttons that allow learning display reappears and the learning standby mode is set.

Learning function
If an AV component is not a DENON product, or if it cannot be operated via codes provided in the AVC-A11XV remote control’s internal preset memory, or if its codes cannot be successfully learned by the AVC-A11XV remote control, then you should use the remote control that was supplied with that AV component to operate the component.

1. Press the ON and OFF button at the same time.
2. Press the 2 button to select Learning setup.
3. Press the MODE SELECTOR button for the component you want to learned, then press the ENTER button.
   - Buttons that allow learning will light.
   - Learning is not possible for the AMP, ZONE2, ZONE3 and ZONE4 modes.
4. Press the button that you wish to be learned.
   - The display will go off and the unit will enter the learning standby mode.
   - To cancel, press the ON and OFF button simultaneously.

System call
The accessories remote control unit is equipped with “system call” function allowing a series of remote control signals to be transmitted by pressing a single button. This function can be used for example to turn on the amplifier’s power, select the input source, turn on the monitor TV’s power, turn on the source component’s power and set the source to the play mode, all at the touch of a single button.

System call buttons
- Up to 12 signals each can be stored at the SYSTEM CALL 1 ~ 6 buttons.
- The System Call function can be used in the AMP, ZONE2, ZONE3 and ZONE4 modes.
Advanced Operation

Using the system call function
1. Press the button at which the system call signals have been stored.
   - The stored signals are transmitted successively.

Punch through
Buttons used in the CD, CDR, DVD, DVP, VCR1 and VCR2 modes can be assigned to the buttons which are not normally used in the AMP, ZONE2, ZONE3, ZONE4, TV and DBS modes. For example, when the CD mode is set to the punch through mode in the AMP mode, the CD mode's PLAY, STOP, MANUAL SEARCH, AUTO SEARCH and PAUSE buttons' signals are sent in the AMP mode.

Setting the back light’s lighting time
1. Press the ON and OFF button at the same time.
2. Press the 5 button to select Light setup.
3. Press the button you want to adjust the lighting time (5 sec ~ 20 sec).
   - Lighting time
     1: 5 sec
     2: 10 sec (factory default)
     3: 15 sec
     4: 20 sec

Setting the brightness
The brightness of the display can be adjusted in 3 levels.
1. For 1 brightness step increase
   - Hold the ENTER button and press the CHANNEL + button.
2. For 1 brightness step decrease
   - Hold the ENTER button and press the CHANNEL – button.

Resetting
Resetting the preset memory
1. Press the ON and OFF button at the same time.
2. Press the 6 button to select resetting.
3. Press the 1 button to resetting the preset memory.
4. Press the MODE SELECTOR button you want to resetting, then press the ENTER button.
   - The set returns to the normal operating mode.

Resetting the learned buttons
1. Press the ON and OFF button at the same time.
2. Press the 6 button to select resetting.
3. Press the 2 button to resetting the learned buttons.
   - The MODE SELECTOR buttons will all light.
4. Press the MODE SELECTOR button you want to resetting, then press the ENTER button.
   - The set returns to the normal operating mode.

NOTE:
- The remote control signals of the buttons pressed while registering, the system call signals are emitted, so be careful not to operate the components accidentally (cover the remote sensors, for example).
Advanced Operation

### Resetting the system call buttons

1. Press the **ON** and **OFF** button at the same time.
2. Press the **6** button to select resetting.
3. Press the **4** button to resetting the system call buttons.
   - All buttons of system call will light.
4. Press the **MODE SELECTOR** button you want to resetting, then press the **ENTER** button.
   - The set returns to the normal operating mode.

### Resetting the punch through setting

1. Press the **ON** and **OFF** button at the same time.
2. Press the **6** button to select resetting.
3. Press the **4** button to resetting the punch through setting.
   - All punched through mode buttons will light.
4. Press the **MODE SELECTOR** button you want to resetting, then press the **ENTER** button.
   - The set returns to the normal operating mode.

### All reset function

1. Press the **ON** and **OFF** button at the same time.
2. Press the **6** button to select resetting.
3. Press the **+10** button.
   - Clear the entire system memory, which will restore the remote control unit to the factory default settings. This operation will take approximately 20 seconds.
   - Use this if you wish to clear all customized settings and memories and set the unit to its out-of-the-box factory default settings.

Multi zone music entertainment system

- When the outputs of the “ZONE2 (ZONE3)” OUT terminals are wired and connected to power amplifiers installed in other rooms, different sources can be played in rooms other than the MAIN ZONE in which this unit and the playback devices are installed. (Refer to ZONE2 (ZONE3) on the diagram below.)
- Settings can be made at “Power Amp Assign” in the “System Setup Menu” so that the same source as the ZONE2 (ZONE3) pre-out terminals can be played from the speakers connected to the ZONE2 (ZONE3) speaker terminals. (page 49, 50)
  - To control playback devices other than the ones above, either use that device’s remote control unit or preset a separately sold programmable remote control unit.
  - For instructions on installation and operation of separately sold devices, refer to the devices’ operating instructions.

Multi-zone playback using the ZONE2 and ZONE3 PREOUT terminals

- When using the power amplifier as the MAIN ZONE output
  - The AVC-A11XV is equipped with pre-out terminals for which the volume is adjustable and video output terminals (composite and S-Video) as the ZONE2/ZONE3 output terminals.
  - When using just one speaker in ZONE2 (ZONE3), select “Mono” at “Channel Setup” in the “System Setup Menu” (page 49). The sound in ZONE2 (ZONE3) is monaural. In this case, the ZONE2 (ZONE3) monaural output is output from both the left and right channels of the ZONE2 (ZONE3) PREOUT connectors, so connect to either one.

[System configuration and connections example]

Using external amplifier.

- Refer to CONNECTIONS (page 18).

<table>
<thead>
<tr>
<th>ZONE1 VIDEO OUT</th>
<th>ZONE2 AUDIO OUT (VARIABLE OUT)</th>
<th>ZONE2 AUDIO OUT (VARIABLE OUT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD player</td>
<td>AVC-A11XV</td>
<td>SYSTEM REMOTE CONTROL UNIT</td>
</tr>
<tr>
<td>MAIN ZONE 7.1-channel system</td>
<td>Monitor</td>
<td>Power Amplifier</td>
</tr>
<tr>
<td>ZONE2 Monitor</td>
<td>ZONE3 (ZONE3)</td>
<td>Power Amplifier</td>
</tr>
<tr>
<td>ZONE3 Monitor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- MULTI SOURCE VIDEO signal cable
- MULTI SOURCE AUDIO signal cable
- Refer to CONNECTIONS (page 18).
When using the power amplifier as the ZONE2/ZONE3 output

When the power amplifier is assigned to the ZONE2 or ZONE3 output channel at "Power Amp Assign" in the "System Setup Menu", the MAIN ZONE speaker terminals can be used as the ZONE2 or ZONE3 speaker output terminals (page 49, 50).

[System configuration and connections example]
Using external amplifier as the ZONE2 and using this AVC-A11XV internal amplifier as the ZONE3.

[System configuration and connections example]
Using this AVC-A11XV internal amplifier as the ZONE2 and using external amplifier as the ZONE3.

Multi-zone playback using the SPEAKER terminals

When using the power amplifier as the ZONE2/ZONE3 output, the MAIN ZONE speaker terminals can be used as the ZONE2 or ZONE3 speaker output terminals (page 49, 50).

[Functional diagram]

Outputting a program source to an amplifier, etc., in a ZONE3 room (ZONE3 SELECT mode)

1. Press the ZONE3/REC SELECT button to display the "ZONE3 SOURCE" on the display.
   - The MULTI indicator light.
2. Turn the FUNCTION knob to select the source you want to output appears on the display.
3. Start playing the source to be output.

- For operating instructions, refer to the manuals of the respective components.
- The signals of the source selected in the ZONE3 mode are also output from the VCR-1, VCR-2, VCR-3 and CDR/TAPE recording output terminals.
- Digital signals are not output from the ZONE2 and ZONE3 audio output terminals.
- About the MULTI ZONE connections (page 37, 38).
- Digital outputs of the OPTICAL2, 3 and 4 OUT normally switch in association with the ZONE3/REC SELECT mode, but if "ZONE2 SELECT" is selected at "Digital Out Assign", the source switches in association with the "ZONE2 SELECT" mode for the OPTICAL2 OUT digital output connector (page 52).
The volume of the outputs of the different zones can be adjusted with the VOLUME button on the remote control unit.

Remote control unit operations during multi-source playback

1 Select the zone which you want to operate pressing the MODE SELECTOR buttons.
   Example: ZONE2
   (Remote control unit)
2 Press the SOURCE ON button to turn on the zone power.
   • Press the SOURCE OFF button to turn off the zone power.
3 Select the input source you wish to output.
4 The volume of the outputs of the different zones can be adjusted with the VOLUME button on the remote control unit.
   • The output level can be controlled only if the zone volume level is set "Variable" at "Volume Control" in the "System Setup Menu" on page 50.
   • DEFAULT VOLUME SETTING
     ZONE2: –40 dB
     ZONE3: –40 dB
   • The zone volume can be adjusted within the range of –80 to 18 dB, in steps of 1 dB.

Other function

Select the input source to which IEEE1394 was assigned at the "IEEE1394 Assign" in the system setup.

Example: CD

1 Select the surround mode.
   Example: DIRECT
   (Main unit) (Remote control unit)

3 Start playback on the selected component.
   • The DSD indicator lights.
   • For operating instructions, refer to the component’s manual.
   • "DSD DIRECT" is shown on the display when playing DSD 2-channel signals in the DIRECT mode. "DSD MULTI DIRECT" is displayed when playing DSD multi-channel signals in the DIRECT mode (SB CH OUT "OFF").

Advanced Operation

Playing Super Audio CDs with an IEEE1394 cable

1 Select the input source.

Example: CD

The IEEE1394 indicator lights.

2 Select the surround mode.

Example: DIRECT

3 Start playback on the selected component.

Example: DIRECT

When playing DSD signals in the DIRECT or PURE DIRECT mode, the DSD signals are converted into analog signals. When playing in other surround modes, the DSD signals are first converted into PCM signals with a sampling frequency of 88.2 kHz. However, when playing DSD 2-channel signals in the STEREO mode, they are converted into PCM signals with a sampling frequency of 176.4 kHz. The input signal and playing status can be checked by pressing the ON SCREEN button on the remote control unit.

Example:
When DSD multi-channel signals are played in the DIRECT mode

Example:
When DSD multi-channel signals are played in the ROCK ARENA mode
Advanced Operation

Recording Dolby Digital and DTS multichannel sources
- With this set it is possible to record Dolby Digital and DTS multichannel signals converted into 2-channel analog signals.
- The recording signals are output to the TAPE and VCR output terminals.
- Down-mixed analog signals converted into digital signals are output from the OPTICAL 2, 3 and 4 digital output terminals at this time.

1. Press the ZONE3/REC SELECT button until “RECOUT SOURCE” appears on the display.
   - The “REC” indicator lights.
2. Press the INPUT MODE button to select the source you wish to record.
3. Press the DIRECT/STEREO button to set the surround mode.
   - The multichannel digital signals are down-mixed and output to the TAPE and VCR output terminals.
4. Set the recording mode.

Dolby Headphone recording
When REC OUT mode is set to “SOURCE”, with the AVC-A11XV it is possible to output signals encoded in the Dolby Headphone mode from the recording output terminals and record them on a separate recorder.

1. The Dolby Headphone play mode is set when headphones are connected to the PHONES jack during playback in the DOLBY/DTS surround mode.
   - When this is done, signals encoded in the Dolby Headphone mode are automatically output from the recording output terminals (analog and digital) and can be recorded.
2. Select the parameters and set the desired mode.
   - Start recording.
   - Refer to the “The Dolby Headphone” (page 28).

NOTE:
- Do not disconnect the headphones during recording.

Last function memory
- This unit is equipped with a last function memory which stores the input and output setting conditions as they were immediately before the power is switched off.
- This function eliminates the need to perform complicated resetting when the power is switched on.
- The unit is also equipped with a back-up memory. This function provides approximately one week of memory storage from when the main unit’s power switch is off and with the power supply cord disconnected.

Initialization of the microprocessor
In very rare instances, the AVC-A11XV internal microprocessor might lock up, or otherwise cause mis-operation. This might be caused due to an AC line surge or line spike noise, or by static electric discharge on or nearby the unit, or to connected components. If the condition cannot be corrected by powering off the unit, including disconnection of the Power supply cord for a period of ten minutes and subsequent re-connection, then the unit may have to be re-initialized. Doing so will restore the microprocessor to its original out-of-the-box state, with all custom memories and settings erased, and the original factory default settings restored. Only use this procedure if you are sure that the microprocessor requires re-initialization.

1. Switch off the unit using the main unit’s POWER switch.
2. Hold the following PURE DIRECT button and DIRECT/STEREO button, and turn the main unit’s POWER switch on.
3. Check that the entire display is flashing with an interval of about 1 second, and release your fingers from the 2 buttons.
   - The microprocessor will be initialized.

- If step 3 does not work, start over from step 1.
- If the microprocessor has been reset, all the settings are reset to the default values (the values set upon shipment from the factory).

Multi-source recording / playback

Playing one source while recording another (REC OUT mode)
1. Press the ZONE3/REC SELECT button until “RECOUT SOURCE” appears on the display.
   - The “REC” indicator lights.
2. Turn the FUNCTION knob to select the source you wish to record.
3. Set the recording mode.
   - For operating instructions, refer to the manual of the component on which you want to record.
   - To cancel, turn the FUNCTION knob and select “SOURCE”.
   - Recording sources other than digital inputs selected in the REC OUT mode are also output to the ZONE3 audio/video output terminals.
   - When the REC OUT mode is selected, the ZONE3 button on the remote control unit cannot be operated.
   - When “ZONE2 SELECT” is selected at “Digital Out Assign”, the source switches in association with the “ZONE2 SELECT” mode for the OPTICAL2 OUT connector (page 52).
Advanced Setup – Part 1

You can customize a variety of system setup so that it may be fitting for your listening environment. For the contents of a system menu and the initial setting of this unit (page 59 – 61).

Navigating through the System Setup Menu

You can change setting using the buttons on the front panel or remote control unit.

1 Press the AMP button (remote control unit).
2 Press the SETUP button to display the “System Setup Menu”. Press the CURSOR △ or ▽ button to select the menu, then press the ENTER button.
3 Press the ENTER button to enter the selected menu.
4 To change a setting, first select it using the CURSOR △ or ▽ button, then change the setting pressing the CURSOR ◄ or ► button.
5 Press the ENTER button to set the new settings.
6 Press the SETUP button to return “System Setup Menu”, and again to return the main screen.

On screen display and front display

The AVCA11XV is equipped with an intuitive and easy-to-understand on screen display, and is equipped with an alpha-numeric front panel display tube that can also be used to check and adjust settings. We recommend that you use the on screen display when you make system adjustments. Some representative front panel and on screen display examples are shown below.
Advanced Setup – Part 1

Audio Input Setup

Make the audio-related settings.

Setting the Digital In Assignment

This setting assigns the digital input terminals of the AVC-A11XV for the different input sources.

1. Press the CURSOR D or H button to select the “Audio Input Setup” at the “System Setup Menu”, then press the ENTER button.
   - Display the “Audio Input Setup” menu screen.

2. Press the CURSOR D or H button to select the “Digital In Assign” at the “Audio Input Setup” menu, then press the ENTER button.
   - Display the “Digital In Assign” screen.

3. Press the CURSOR ◄ or ► button to select the input source, then press the CURSOR ◄ or ► button to select the digital input terminal.
   - Select from among COAX 1 to 3, OPT 1 to 5.
   - If the same digital input terminal is selected, the setting for the input source that was previously assigned switches to “OFF”.
   - The HDMI input terminal is displayed when it is assigned to the input source at “HDMI/DVI In Assign” (page 44, 45).
   - If an input source is assigned to a device connected with an IEEE1394 cable at “IEEE1394 Assign”, the digital input connector’s assignment settings switches to “OFF”.
   - If “Yes” is selected for “Default”, the settings are automatically reset to the default values.

4. Press the ENTER button to enter the setting.
   - The “Audio Input Setup” menu reappears.

Setting the DENON LINK

• When a DENON DVD player and the DENON LINK have been connected, be sure to make a setting to “DENON LINK” with the System Setup Digital In Assignment.
• When the input mode is AUTO and the signals are not able to transferred by DENON LINK, the unit automatically changes over the input to the selected signals (ANALOG, EXT. IN or IEEE1394).
• Refer to “DENON LINK connections” (page 16).

1. Press the CURSOR D or H button to select the “DENON LINK” with the System Setup Digital In Assignment.

2. Press the CURSOR D or H button to select the “DENON LINK” setting, then press the CURSOR ◄ or ► button to select the input signal (ANALOG, EXT. IN or IEEE1394).

   - Select the input for the playback of signals that cannot be transferred by DENON LINK.

Setting the EXT. IN Setup

• Set the method of playback of the analog input signal connected to the EXT. IN (8CH) terminals.
• Refer to “Connecting the external inputs (EXT. IN) terminals” (page 14).

1. Press the CURSOR D or H button to select the “EXT. IN Setup” at the “Audio Input Setup” menu, then press the ENTER button.
   - Display the “EXT. IN Setup” menu screen.

2. Press the CURSOR D or H button to select the item to be set, then press the CURSOR ◄ or ► button to select the parameter.

   - **Surr. Sp:**
     - Presets the surround speakers that are used in the EXT. IN mode.
     - Select according to the specifications of the player being used. Also refer to the player’s operating instructions.
     - **Surr. A:**
       - Select when using surround speakers A.
     - **Surr. B:**
       - Select when using surround speakers B.
     - **Surr. A+B:**
       - Select when using both surround speakers A and B.

   - **SW Level:**
     - Sets the playback level of the analog input signal that was input to the EXT. IN subwoofer terminal.
     - Select according to the specifications of the player being used. Also refer to the player’s operating instructions.
     - (+15dB default) recommended. 0, +5, +10 and +15 can be selected.

3. Press the ENTER button to enter the setting.
   - The “Audio Input Setup” menu reappears.
Advanced Setup – Part 1

Setting the Input Function Level

- Correct the playback level of the different input sources.
- Adjust the playback levels of the devices connected to the different input sources to the same level to eliminate the need for adjusting the main volume each time the input source is switched.

1. Press the CURSOR △ or ▼ button to select the “Input Function Lev.” at the “Audio Input Setup” menu, then press the ENTER button.
   • Display the “Input Function Lev.” screen.
2. Press the CURSOR △ or ▼ button to select the input source, then press the CURSOR ◄ or ► button to adjust the level.
   • The level can be adjusted between –12 dB and +12 dB in units of 1 dB.
   • If “Yes” is selected for “Default”, the settings are automatically reset to the default values.
3. Press the ENTER button to enter the setting.
   • The “Audio Input Setup” menu reappears.

After completing this setting, check that the playback levels for the different sources are the same.

Setting the Function Rename

The names of the input sources displayed on the front display and on the on-screen display can be changed. The names or brands of the devices connected to the input sources can be input.

1. Press the CURSOR △ or ▼ button to select the “Function Rename” at the “Audio Input Setup” menu, then press the ENTER button.
   • Display the “Function Rename” screen.
2. Press the CURSOR △ or ▼ button to select the input source whose name you want to change, then press the CURSOR ◄ or ► button.
   • The screen switches to the character input screen.
3. Press the CURSOR ◄ or ► button to move the cursor (▏) to the character, number, symbol or punctuation mark you wish to input, and press the CURSOR △ or ▼ button to select that character.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z " # % & ' ( ) * + , – . / : ; < = > ? @ [ ] \ ^ _ \ (space)

• Up to 8 characters can be input.
4. Repeat step 3 to input the input source name.
   • If you wish to set the input source back to as it was initially, press the CURSOR ▼ button with the input source highlighted.
   • If “Yes” is selected for “Default”, the settings are automatically reset to the default name.
5. Once all the characters have been input, press the ENTER button.
   • The “Function Rename” screen reappears.
6. Press the ENTER button to enter the setting.
   • The “Audio Input Setup” menu reappears.

Removing a character:
- Press the CURSOR ◄ or ► button to move the cursor to the character you wish to remove, then press the CURSOR ▼ button.
- The selected character will be removed.

Setting the IEEE1394 Assign

Assign the device connected by IEEE1394 cable to an input source. The power of the device to be assigned must be turned on ahead of time.

1. Press the CURSOR △ or ▼ button to select the “IEEE1394 Assign” at the “Audio Input Setup” menu, then press the ENTER button.
   • Display the “IEEE1394 Assign” screen.
2. Press the CURSOR △ or ▼ button to select the device, then press the CURSOR ◄ or ► button to select the input source.
3. Press the ENTER button to enter the setting.
   • The “Audio Input Setup” menu reappears.

Example:
When the name has been changed to “DVD-A1XV”
**Advanced Setup – Part 1**

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### Setting the IEEE1394 Auto Function

**Set whether or not to automatically play the IEEE1394 device when it is selected with the FUNCTION knob.**

1. Press the CURSOR △ or ▽ button to select the “IEEE1394 Auto Func.” at the “Audio Input Setup” menu, then press the ENTER button.
   - Display the “IEEE1394 Auto Func.” screen.

2. Press the CURSOR < or > button to select the “ON” or “OFF”.
   - ON: Select this to automatically play the device.
   - OFF: Select this if you do not want to automatically play the device.

3. Press the ENTER button to enter the setting.
   - The “Audio Input Setup” menu reappears.

4. Press the CURSOR △ or ▽ button to select the “Exit”, then press the ENTER button.
   - The “System Setup Menu” menu reappears.

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### Video Setups

**Make the video-related settings.**

### Setting the HDMI / DVI In Assign

- This setting assigns the HDMI input terminals and DVI input terminal for different input sources.
- Set the method for playing the audio signals included in the HDMI input signal.

1. Press the CURSOR △ or ▽ button to select the “Video Setup” at the “System Setup Menu”, then press the ENTER button.
   - Display the “Video Setup” menu screen.

2. Press the CURSOR △ or ▽ button to select the input source, then press the CURSOR < or > button to select the input terminal.

3. Press the CURSOR △ or ▽ button to select the method for playing the audio signals included in the HDMI input signal, then press the CURSOR < or > button to select the “TV” or “AMP”.
   - AMP: Play the audio signals on speakers connected to the AVC-A11XV.
   - TV: Play the audio signals on a monitor TV connected to the AVC-A11XV.

4. Press the CURSOR △ or ▽ button to select the input for the playback of signals when the audio signal of HDMI cannot be reproduced, then press the CURSOR < or > button to select the input signal (ANALOG or EXT. IN).

5. Press the CURSOR △ or ▽ button to select the “Video Setup” at the “System Setup Menu”, then press the ENTER button.
   - Display the “Video Setup” menu screen.

6. Press the ENTER button to enter the setting.
   - The “Video Setup” menu reappears.

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Advanced Setup – Part 1

Setting the Component In Assign

This setting assigns the component video input terminal of the AVC-A11XV for the different input sources.

1. Press the CURSOR △ or ▽ button to select the “Component In Assign” at the “Video Setup” menu, then press the ENTER button.
   - Display the “Component In Assign” screen.

2. Press the CURSOR △ or ▽ button to select the input source, then press the CURSOR < or > button to select the component video input terminal.
   - Select from among 1-RCA to 3-RCA.
   - If the same component video input terminal is selected, the setting for the input source that was previously assigned switches to “NONE”.
   - If “Yes” is selected for “Default”, the settings are reset to the default values.

3. Press the ENTER button to enter the setting.
   - The “Video Setup” menu reappears.

Setting the Video Convert Mode

Select the input signal to be output to the composite S-Video and component monitor output terminals using the video conversion function.

1. Press the CURSOR △ or ▽ button to select the “Video Convert Mode” at the “Video Setup” menu, then press the ENTER button.
   - Display the “Video Convert Mode” screen.

2. Press the CURSOR △ or ▽ button to select the input source, then press the CURSOR < or > button to select the mode as below.
   - AUTO: When there are multiple input signals, the input signals are detected and the input signal to be output from the video monitor output terminal is selected automatically in the following order: component video, S-Video, composite video.
   - Component: The signal connected to the component video terminal is always played.
   - S-Video: The signal connected to the S-Video terminal is always played.
   - Video: The signal connected to the composite video terminal is always played.
   - OFF: The convert function does not operate.

3. Press the ENTER button to enter the setting.
   - The “Video Setup” menu reappears.

- Down-converting from the component video signal to the S-Video and composite video signal is possible only when the resolution of a component video signal is 480i / 576i.
- For optimum video performance, THX recommends that video pass through (bypass) is used.
- When a non-standard video signal from a game machine or some other source is input, the video conversion function might not operate. If this happens, please set the conversion mode to OFF.
- When the video conversion function has been used, information such as that of text broadcasts which has been added to the video signal might not be output. If this happens, please set the conversion mode to OFF.

- If a monitor is connected with an HDMI cable but the monitor is not compatible with HDMI audio signal playback, only the video signals are output to the monitor from the AVC-A11XV (DVI mode).
- Press the STATUS button to check which mode is set for outputting HDMI signals from the AVC-A11XV (HDMI and DVI models).
- Inputs signals input from the analog and digital terminals are not output to the TV.
- With HDMI, the video and audio signals are transferred simultaneously. When HDMI is assigned to an input source, the digital audio input assignment switches to HDMI along with the video input.
- When this setting is made for input sources to which a digital audio input (DENON LINK, IEEE1394 etc.) is previously assigned, the digital audio assignment is set to HDMI.
- In this case, reassign the digital input using the procedure described at “Digital In Assign” (page 42) and “IEEE1394 Assign” (page 43, 44).
Setting the HDMI Out Setup

- Set whether to use the analog video signals to HDMI conversion function.
- When using this conversion function, set the color format and video range of the signals output from the HDMI terminal.

1. Press the CURSOR △ or ▽ button to select the "HDMI Out Setup" at the "Video Setup" menu, then press the ENTER button.
   - Display the "HDMI Out Setup" screen.

<table>
<thead>
<tr>
<th>Analog to HDMI Convert:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• ON: Setting for converting analog video signals into HDMI signals.</td>
</tr>
<tr>
<td>• OFF: Setting for not converting analog video signals into HDMI signals.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Color Space:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• YCb Cr: The YCbCr format video signals is output via the HDMI output connector.</td>
</tr>
<tr>
<td>• RGB: The RGB format video signals is output via the HDMI output connector.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RGB Mode Setup:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Normal: Signals are output via the HDMI output connector with a digital RGB video range (data range) of 0 (black) to 255 (white).</td>
</tr>
<tr>
<td>• Enhanced: Signals are output via the HDMI output connector with a digital RGB video range (data range) of 0 (black) to 255 (white).</td>
</tr>
</tbody>
</table>

Function/Mode Status:
- Set whether or not to turn on the on screen display of the input source name and input mode when an input source is selected.

Master Volume Status:
- Set whether or not to turn on the on screen display of the main volume level when the main volume is operated.

Display Mode:
- Mode 1: Prevents flickering of the on screen display when there is no video signal.
- Mode 2: Flickering is not prevented. Use this mode if the on screen display does not appear in the Mode 1, as may happen according to the TV being used.

Setting the Audio Delay

- When watching a DVD or other video source, the picture on the monitor may seem delayed with respect to the sound. In this case, adjust the audio delay to delay the sound and synchronize it with the picture.
- The audio delay setting is stored separately for each input source.

1. Use the CURSOR D or H button to select the "Audio Delay" at the "Video Setup" menu, then press the ENTER button.
   - Display the "Audio Delay" screen.

   - The audio delay setting does not apply when playing in the EXT. IN mode or in the analog input direct mode or stereo mode (only when the crossover frequency is set to "FIXED-THX-").

   - Use the "Audio Delay" setting to delay the sound and synchronize it with the picture.

   - Use this to turn the on screen display (messages other than the menu screens) on or off.

   - Sets the on screen display’s display mode.

Setting the On Screen Display (OSD)

1. Use the CURSOR △ or ▽ button to select the “On Screen Display” at the “Video Setup” menu, then press the ENTER button.
   - Display the “On Screen Display” screen.
Setting the 2ch Direct / Stereo

Set this when you want to change the speaker settings when the surround mode is set to the 2-channel Direct or Stereo mode.

1. Press the CURSOR △ or ▽ button to select the “Advanced Playback” at the “System Setup Menu”, then press the ENTER button.
   - Display the “Advanced Playback” menu screen.

Example:
- This screen is displayed in function of the settings made at “Speaker Configuration”, “Subwoofer Setup”, “Delay Time” and “Crossover Frequency”.

2. Press the CURSOR △ or ▽ button to select the “2ch Direct / Stereo” at the “Advanced Playback” menu, then press the ENTER button.
   - Display the “2ch Direct / Stereo” screen.

3. Press the CURSOR ◄ or ► button to select the “Custom”.

4. Press the CURSOR ◄ or ► button to select the setting, then press the CURSOR △ or ▽ button to select the parameter.

5. Press the ENTER button to enter the setting.
   - The “Advanced Playback” menu reappears.

Setting the front B speakers when the surround mode is set to the 2-channel Direct or Stereo

When “Front B” is selected at “Power Amp Assign” and “Custom” is selected at this setting, the “Front B” setting is displayed.

To play signals from the Front B speaker when in the 2-channel Direct or Stereo mode, set “Used”.

1. Press the CURSOR △ or ▽ button to select the “Custom”.

2. Press the CURSOR ◄ or ► button to select the setting, then press the CURSOR △ or ▽ button to select the parameter.

3. Press the ENTER button to enter the setting.
   - The “Advanced Playback” menu reappears.

Setting the Dolby Digital Setup

Sets the down-mixing method when not using a center speaker or surround speakers.

1. Press the CURSOR △ or ▽ button to select the “Dolby Digital Setup” at the “Advanced Playback” menu, then press the ENTER button.
   - Display the “Dolby Digital Setup” screen.

2. Press the CURSOR ◄ or ► button to select the “ON” if you want to use the Compression, “OFF” if you do not want to use it.

   - OFF: The dynamic range is not compressed.
   - ON: The dynamic range is compressed automatically according to the combination of speakers being used.

   When a center speaker or surround speakers are not connected, the sounds in those channels are directed to the front speakers.

3. Press the ENTER button to enter the setting.
   - The “Advanced Playback” menu reappears.

Setting the Auto Surround Mode

The surround mode used at last for the four types of input signals shown below is stored in the memory, and the signal is automatically played with that surround mode the next time it is input.

Note that the surround mode setting is also stored separately for the different input sources:

1. Analog and PDM 2-channel signals (STEREO)
2. 2-channel signals of Dolby Digital, DTS or other multi-channel format (DOLBY PLIIx cinema)
3. Multichannel signals of Dolby Digital, DTS or other multichannel format (DOLBY/DTS SURROUND)
4. PCM and DSD multi-channel signals other than Dolby Digital and DTS (MULTI CH IN)

   Default settings are indicated in ( ).

   During playback in the PURE DIRECT mode, the surround mode does not change even if the input signal is changed.

1. Press the CURSOR △ or ▽ button to select the “Auto Surround Mode” at the “Advanced Playback” menu, then press the ENTER button.
   - Display the “Auto Surround Mode” screen.

2. Press the CURSOR ◄ or ► button to select the “ON” if you want to use the Auto surround mode, “OFF” if you do not want to use it.

3. Press the ENTER button to enter the setting.
   - The “Advanced Playback” menu reappears.
Setting the Manual EQ Setup

Allows you to adjust the tonal quality of the various speakers (except the subwoofer) while listening to a music source.

1 Press the CURSOR Δ or ▼ button to select the “Manual EQ Setup” at the “Advanced Playback” menu, then press the ENTER button.

2 Press the CURSOR < or > button to select the frequency, then press the CURSOR ▲ or ▼ button to adjust the gain level.

3 Press the CURSOR < or > button to select the speaker to be set.

Example:

When “L/R CH” is selected,

- FL/FR
- SBL/SBR
- C
- SLA/SRA
- SLB/SRB
- FL
- SBR
- 1spkr
- FR
- SLB
- SB
- SL/SR A+B
- SB

4 Press the ENTER button to enter the setting.

5 Press the ENTER button to enter the setting.

6 Press the CURSOR Δ or ▼ button to select the “Exit”, then press the ENTER button.

7 Press the CURSOR Δ or ▼ button to select the “Exit”, then press the ENTER button.

Procedure for copying the “Flat” correction curve

1 Press the CURSOR Δ button to select the “Base Curve Copy”, then press the CURSOR < button.

2 Press the CURSOR < button to select the “Yes”.

3 Press the ENTER button to enter the setting.

4 Each frequency can be adjusted the range from –20 dB to +6 dB in 0.5 dB step.

5 “Base Curve Copy” is displayed after performing the Auto Setup.

6 To restore the settings to their defaults, select “Default Yes”, then press the CURSOR ▲ button.

7 The type of the copied correction curve is displayed in the upper right of this screen.

• If the “Auto Setup” procedure has not been performed, this item is not displayed.

• “Base Curve Copy” is displayed after performing the Auto Setup.

• To restore the settings to their defaults, select “Default Yes”, then press the CURSOR ▲ button.

• The various settings applied in the auto surround mode can be checked via the on screen display. Simply press the ON SCREEN button.

• The display changes as follows.

1. Select “L/R CH”
2. Select “Each CH”
3. Select “All CH”
4. If a value is already set for the FL channel, the data stored for the FL channel is displayed.

• “Base Curve Copy” is displayed after performing the Auto Setup.

• To restore the settings to their defaults, select “Default Yes”, then press the CURSOR ▲ button.

• If the “Auto Setup” procedure has not been performed, this item is not displayed.

• The various settings applied in the auto surround mode can be checked via the on screen display. Simply press the ON SCREEN button.
Option Setup

Make other expert settings.

Setting the Channel Setup
With this setting it is possible to change the number of channels played in the different zones according to the purpose.

The AVC-A11XV accords to whether or not you have surround 'B' speaker(s) connected, and whether or not you have surround back (SB) speakers connected.

The number of channels output from the pre-out connectors exclusively for ZONE2 and 3 can be set to "Mono" or "Stereo" according to the method of playback in the various multi-zones.

Adjustments made in this section will have an effect on the various "Setting the Power Amplifier Assignment" setting options (page 49, 50).

Press the CURSOR △ or V button to select the "Option Setup" at the "System Setup Menu", then press the ENTER button.

Press the CURSOR △ or V button to select the "Channel Setup", then press the ENTER button.

Press the CURSOR △ or V button to select the zone, then press the CURSOR < or > button to select the channel setting.

Press the ENTER button to enter the setting.

The "Option Setup" menu reappears.

### Setting the Power Amplifier Assignment

AVC-A11XV’s power amplifiers for seven channels (except the front channel), can be assigned to any channels in the MAIN ZONE, ZONE2 or ZONE3 and output to the speaker(s). In this way, power amplifiers not being used in the main zone can be assigned for multi-zone use, the front speakers can be connected with a "Bi-Amp", etc., so you can create the desired speaker system.

This available power amplifier channels that can be re-assigned may differ, according to settings previously made in the "Channel Setup" menu (page 48).

**1. Press the CURSOR △ or V button to select the "Power Amp Assign" at the "Option Setup" menu, then press the ENTER button.**

Press the CURSOR △ or V button to select the power amplifier to be assigned, then press the CURSOR △ or V button to select which channel to assigned the amplifier to.

**2. Press the CURSOR △ or V button to select the power amplifier to be assigned, then press the CURSOR △ or V button to select which channel to assigned the amplifier to.**

**3. Press the CURSOR △ or V button to select the channel.**

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

The "Option Setup" menu reappears.
5. Back:
If no surround back speakers are used in the main room, their amplifier channels can be assigned for other uses, or one of the two channels can drive one surround back speaker in the main room, while the other channel can drive a monaural speaker in another zone.

- **Front:**
  This provides a bi-amp mode for the two main front speakers, replicating the front left and front right amplifier channels’ outputs.

- **Front B:**
  Both surround back power amplifier channels can be used to provide a second set of stereo outputs that match the front left and right speakers, providing a Speaker B option for stereo sound in another location (see page 47).

- **ZONE3:**
  This mode assigns the Surround Back amplifier channels to provide ZONE2 speaker-level outputs from the Surround Back speaker jacks, with the option of monaural or stereo operation depending on the “Channel Setup” setting.

- **ZONE3 Left:**
  This mode assigns the Surround Back amplifier channels to provide ZONE3 speaker-level outputs from the Surround Back speaker jacks, with the option of monaural or stereo operation depending on the “Channel Setup” setting.

- **ZONE3 Bi-Amp:**
  Both surround back power amplifier channels can be used to provide additional speaker outputs for ZONE3, with the option of monaural or stereo operation depending on the “Channel Setup” setting.

- **ZONE2:**
  When only one surround back speaker is used in the main room (connected to the SBR speaker terminals), the surround back right amplifier channel can be used to provide monaural output to a speaker located in ZONE2.

- **ZONE2 Bi-Amp:**
  When no surround back speakers are used in the main room, this mode provides monaural sound to a speaker in ZONE2 connected to the SBL speaker terminals, with monaural sound to a speaker in ZONE3 connected to the SBR speaker terminals.

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

- The “Option Setup” menu reappears.

### Front Bi-Amp connections

Certain loudspeakers are equipped with two sets of input terminals for bi-amp connections. Use the AVC-A11XV’s Bi-Amp Assign mode to provide bi-amp capable speakers with two amplifier channels. Be sure to consult the owner’s manual of your bi-amp capable speakers for further information before proceeding.

### Setting the Volume Control

- **Power Level:**
  - **OFF:**
    - Set the upper limit for the volume when the power is turned on for the different zones.
  - **–20 dB:**
    - Set the lower limit for the volume when the power is turned on for the different zones.
  - **–10 dB:**
    - The volume cannot be increased above the selected levels.
  - **0 dB:**
    - The volume is always muted when the power is turned on.
  - **–80 to +18 dB in steps of 1.0 dB:**
    - You can adjust the volume level within the range of –80 to +18 dB in steps of 1.0 dB.

- **Volume Level:**
  - **FULL:**
    - Set the volume that is set when the power is turned on.
  - **–40 dB:**
    - The volume is lowered 40 dB from the current level.
  - **–20 dB:**
    - The volume is lowered 20 dB from the current level.

- **Volume Limit:**
  - **OFF:**
    - Set the upper limit for the volume for the different zones.
  - **–20 dB, –10 dB, 0 dB:**
    - This volume cannot be increased above the selected levels.
  - **–80 to +18 dB in steps of 1.0 dB:**
    - The volume is lowered 40 dB from the current level.

### Power On Level:

Set whether to fix the output level for the different zones or make it variable.

- **Variable:**
  - **The level can be adjusted freely using buttons on the remote control unit.**
  - **40 dB, 0 dB:**
    - The output level is fixed at the set level and the volume can no longer be adjusted.

### Mute Level:

Set the volume attenuation level when the mute mode is set for the different zones.

- **FULL:**
  - The volume is fully muted.
  - **–40 dB:**
    - The volume is lowered 40 dB from the current level.
  - **–20 dB:**
    - The volume is lowered 20 dB from the current level.

### Volume Level:

Set whether to fix the output level for the different zones or make it variable.

- **Variable:**
  - **The level can be adjusted freely using buttons on the remote control unit.**
  - **40 dB, 0 dB:**
    - The output level is fixed at the set level and the volume can no longer be adjusted.

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**NOTE:**
- When making bi-amp connections, be sure to remove the short-circuiting bar included with the speaker.
Advanced Setup – Part 1

Setting the Trigger Out

• Three 12 V DC Trigger Outputs on the rear panel can be used to control other devices with compatible trigger inputs, such as motorized screens, motorized screen masking, motorized drapes, and other trigger-controlled devices.

• Set the DC output supplied from the trigger out terminals for the various input sources to “ON” or “OFF”.

1 Press the CURSOR △ or ▼ button to select the “Trigger Out” at the “Option Setup” menu, then press the ENTER button.

2 Press the CURSOR △ or ▼ button to select the trigger out terminal you want to set, then press the ENTER button.

3 Press the CURSOR < or > button to select the zone (MAIN ZONE, ZONE2 and ZONE3).

4 Press the CURSOR △ or ▼ button to select the input source, then press the CURSOR < or > button to select the “ON” or “OFF”.

5 If “MAIN” was selected at step 3:
   Press the CURSOR △ or ▼ button to select the surround mode, then press the CURSOR < or > button to select the “ON” or “OFF”.

6 Press the ENTER button.

7 Press the CURSOR △ or ▼ button to select the “Exit”, then press the ENTER button.

ZONE2 and ZONE3 tone control and channel level setting

1 Press the CURSOR △ or ▼ button to select the “Zone2/3 Tone/Ch Lev.” at the “Option Setup” menu, then press the ENTER button.

2 Press the CURSOR △ or ▼ button to select the zone whose sound you want to adjust (ZONE2, ZONE3), then press the ENTER button.

3 Press the CURSOR △ or ▼ button to select the item to be set, then press the CURSOR < or > button to adjust the parameter.

   Bass:
   Adjust the tone for the bass.

   Treble:
   Adjust the tone for the treble. (The treble sound can be adjusted between –12 dB and +12 dB in steps of 1.0 dB.)

   HPF:
   Set this to “ON” if your speakers do not have a very strong capacity for producing low bass. Using the high pass filter makes it possible to reduce distortion of the bass sound.

   Channel Level:
   Set so that the playback level is the same for the left and right channels. (The volume can adjusted between –12 dB and +12 dB in steps of 1.0 dB.)

4 Press the ENTER button.

5 Press the CURSOR △ or ▼ button to select the “Exit”, then press the ENTER button.

Example:
When “Zone2” is selected

   • The “Channel Level” setting is only possible when ZONE2 or ZONE3 is set to Stereo in the “Channel Setup” menu.

---

Example:
When “Zone2” is selected

   • The “Option Setup” menu reappears.

---

Example:
When “Zone2” is selected

   • The “Option Setup” menu reappears.

---

Example:
When “Zone2” is selected

   • The “Option Setup” menu reappears.
Advanced Setup – Part 1

Setting the Digital Out Assignment

The optical digital output connectors on the AVC-A11XV’s rear panel (OPTICAL2 to 4 OUT) normally function in association with the ZONE3/REC SELECT mode. With this setting, the OPTICAL 2 OUT connector can be used in association with the ZONE2 SELECT mode.

1. Press the CURSOR △ or ▽ button to select the “Digital Out Assign” at the “Option Setup” menu, then press the ENTER button.
   • Display the “Digital Out Assign” screen.

2. Press the CURSOR ◄ or ► button to select whether to associate the OPTICAL2 OUT connector to the “ZONE3/REC SELECT” or “ZONE2 SELECT” mode.

3. Press the ENTER button to enter the setting.
   • The “Option Setup” menu reappears.

User Memory

The currently set settings (system setup, surround parameters, etc.) can be stored in the memory. The stored settings can be called out when needed.

1. Press the CURSOR △ or ▽ button to select the “Setup Memory / Lock” at the “Option Setup” menu, then press the ENTER button.
   • Display the “Setup Memory / Lock” screen.

2. Press the CURSOR ◄ button to select the “User Memory”, then press the ENTER button.
   • Switch to the “User Memory” screen.

3. Press the CURSOR ◄ button to select the “Yes”.
   • About 30 seconds are required for the settings to be stored in the memory.

4. Press the CURSOR △ or ▽ button to select the “Exit”, then press the ENTER button.
   • Return to the “Setup Memory / Lock” screen.

5. Once the settings are stored in the memory, “Load” is displayed and the settings can be loaded.

Setup Lock

The system setup settings can be locked so that they cannot be changed easily.

1. Press the CURSOR △ or ▽ button to select the “Setup Lock” at the “Setup Memory / Lock” screen, then press the ENTER button.
   • Switch to the “Setup Lock” screen.

2. Press the CURSOR ◄ button to select “ON”, to lock the system setup settings, then press the ENTER button.
   • Return to the “Setup Memory / Lock” screen.

3. Press the CURSOR △ or ▽ button to select the “Exit”, then press the ENTER button.
   • The “Option Setup” menu reappears.

4. Press the CURSOR △ or ▽ button to select the “Exit”, then press the ENTER button.
   • Finalize the setting and exit the “Option Setup” menu.
Advanced Setup – Part 2

Setting the type of speakers

The composition of the signals output to each channel and the frequency response are adjusted according to the combination of speakers actually being used.

1. Press the CURSOR D or H button to select the “System Setup Menu”, then press the ENTER button.
2. Press the CURSOR D or H button to select the “Speaker Setup”, then press the ENTER button.
3. Press the CURSOR D or H button to select the “Speaker Config.”, then press the ENTER button.
4. Press the ENTER button to enter the setting.

Speaker Setup

• If the “Auto Setup” procedure has already been performed, there is no need to make this setting.
• Perform this setting if you wish to make the settings for your speaker systems manually.

1. Press the CURSOR D or H button to select the “Speaker Setup” at the “System Setup Menu”, then press the ENTER button.
2. Press the CURSOR D or H button to select the “Speaker Config.” at the “Speaker Setup”, then press the ENTER button.
3. Press the CURSOR D or H button to select the speaker, then press the CURSOR F or G button to select the parameter.
4. Press the ENTER button to enter the setting.

Setting the low frequency distribution

• Set the subwoofer mode according to the speaker system being used.
• Select the play mode that provides bass reproduction with body.

1. Press the CURSOR Δ or ν button to select the “Subwoofer Setup” at the “Speaker Setup” menu, then press the ENTER button.
2. Press the CURSOR Δ or ν button to select the setting.
3. Press the ENTER button to enter the setting.

Parameters

Large:
Select this when using speakers that can fully reproduce deep bass well below 80 Hz.

Small:
Select this when using speakers that are not capable of handling deep bass well below 80 Hz. Most home theater main and surround speakers perform best when configured as SMALL. Deep bass content in any channel with a SMALL speaker is routed to the subwoofer(s).

None:
Select this when no speakers are installed.

2spkrs / 1spkr:
Select the number of speakers to be used for the surround back channel.

Advanced Setup – Part 2

2
Parameters

LFE–THX–:
For any channel(s) that are set to LARGE, low frequencies in that channel’s corresponding source are directed to that loudspeaker only. Low frequencies that are directed to the subwoofer(s) are from the program source LFE channel, and from other channels where the speakers are set to SMALL. THX is recommended in this play mode so that bass interference is less likely to occur in the room.

LFE+Main:
Low frequencies from speaker channels that have been set to LARGE are reproduced from those speakers as well as from the subwoofer(s). Depending upon the characteristics of the LARGE main speakers, this mode may provide a more even low frequency response throughout the listening room.

Set the subwoofer mode according to the speaker system being used. Select the play mode that provides bass reproduction with body.
Advanced Setup – Part 2

Setting the Delay Time

1. Press the CURSOR △ or ▽ button to select the “Delay Time” at the “Speaker Setup” menu, then press the ENTER button.
2. Press the CURSOR ◄ or ► button to select the desired unit, “Meters” or “Feet”.
3. Press the CURSOR △ or ▽ button to select the speaker to be set.
4. Press the CURSOR ◄ or ► button to set the distance between the center speaker and listening position.
5. Press the ENTER button to enter the setting.

Example:
- When the distance is set to 3.6 meters for the center speaker, the AVC-A11XV automatically sets the optimum surround delay time for the listening room.

Assignment of low frequency signal range
- The only signals produced from the subwoofer channel are LFE signals during playback of Dolby Digital or DTS signals and the low frequency signal range of channels set to “Small” in the setup menu. The low frequency signal range of channels set to “Large” are produced from those channels.

Subwoofer Setup
- The subwoofer mode setting is only valid when and “Yes” is set for the subwoofer in the “Speaker Configuration” settings (page 53).
- When the input signal is analog or a PCM signal not including LFE signals, if “LFE–THX–” is selected, the low frequency component is not output from the subwoofer. To output the subwoofer channel, select “LFE+Main”.

Setting the Channel Level

1. Press the CURSOR △ or ▽ button to select the “Channel Level” at the “Speaker Setup” menu, then press the ENTER button.
2. Press the CURSOR ◄ or ► button to select the desired unit, “Meters” or “Feet”.
3. The “Delay Time” screen appears automatically.
4. Press the CURSOR ◄ or ► button to select the “Auto” or “Manual”.
5. Press the ENTER button to enter the setting.

Example:
- When the distance is set to 0.6 meters for the center speaker, the AVC-A11XV automatically sets the optimum surround delay time for the listening room.
Advanced Setup – Part 2

3 Press the CURSOR △ or ▼ button to select the “Surr. Sp.”, then press the CURSOR ‹ or › button to select the surround speaker(s) from which you want to produce the test tone (A, B or A+B).

- The “Surr. Sp.” can only be selected when both surround speakers A and B have been selected at the System Setup Menu (when both A and B have been set to “Large” or “Small”).

- Adjusts the balance of the playback level between the channels when using surround speaker A.

- Adjusts the balance of the playback level between the channels when using surround speaker B.

- Adjusts the balance of the playback level between the channels when using surround speakers A and B at the same time.

4 Press the CURSOR △ or ▼ button to select the “Test Tone Start”, then press the CURSOR ‹ or › button to select the “Yes”.

- When a speaker is set to SMALL, low frequencies in that channel that are below the crossover frequency are directed to the system’s subwoofer(s), or to the subwoofer’s own volume control. Set the crossover frequency according to the low frequency response characteristics of the various (front, center, surround and surround back) speakers that are set to LARGE, for systems with no connected subwoofer(s).

- When adjusting the level of an active subwoofer system, you may also need to adjust the subwoofer’s own volume control.

- The “Auto” mode is selected: Press the CURSOR △ or ▼ button to select the speaker, then press the CURSOR ‹ or › button to adjust all the speakers to the same volume.

- Adjusting the test tone using the remote control unit
  - As described below, this adjustment can be accomplished via the with remote control unit.
  - Adjusting with the remote control unit using the test tones is only possible in the “Auto” mode and only effective in the STANDARD (DOLBY/DTS SURROUND) and HOME THX CINEMA modes. The adjusted levels for the different modes are automatically stored in the memory.

- To cancel the settings, press the CURSOR △ or ▼ button to select the “Level Clear” and “Yes” on the “Channel Level” screen, then make the settings again.

5 The “Manual” mode is selected: Press the CURSOR △ or ▼ button to select the speaker, then press the CURSOR ‹ or › button to adjust all the speakers to the same volume.

- When the surround back speaker setting is set to “SB”, the test tone is being produced from the Front Lch speaker.

- The volume can be adjusted between –12 dB and +12 dB in units of 0.5 dB.

- Adjusts the balance of the playback level between the channels when using surround speaker A.

- The volume can be adjusted between –12 dB and +12 dB in units of 0.5 dB.

- Adjusts the balance of the playback level between the channels when using surround speaker B.

- Adjusts the balance of the playback level between the channels when using surround speakers A and B at the same time.

- Example: When the volume is set to –11.5 dB while the test tone is being produced from the Front Lch speaker.

- The volume can be adjusted between –12 dB and +12 dB in units of 0.5 dB.

- Example: “Manual” mode is selected.

- The volume can be adjusted between –12 dB and +12 dB in units of 0.5 dB.

- The test tones are emitted from each channel around and on:

- When the surround back speaker setting is set to “1spkr” for “Speaker Configuration”, this is set to “SB”.

6 Press the ENTER button to enter the setting.

- The “Channel Level” screen reappears.

- Setting the Crossover Frequency
  - Set the crossover frequency according to the low frequency response characteristics of the various (front, center, surround and surround back) speaker systems.
  - If a connected main or surround loudspeaker has a specified –3 dB low frequency response rolloff, adjust the crossover frequency for that speaker to match the specified low frequency response limit – e.g. 80 Hz.
  - When a speaker is set to SMALL, low frequencies in that channel that are below the crossover frequency are directed to the system’s subwoofer(s), or to speakers that are set to LARGE, for systems with no connected subwoofer(s).

- When completing the adjustment, press the TEST TONE button again.

- The “Manual” mode is selected: Press the CURSOR △ or ▼ button to select the speaker, then press the CURSOR ‹ or › button to adjust all the speakers to the same volume.

- The “Auto” mode is selected: Press the CURSOR △ or ▼ button to select the speaker, then press the CURSOR ‹ or › button to adjust all the speakers to the same volume.

- The “Channel Level” screen reappears.

- The “Manual” mode is selected: Press the CURSOR △ or ▼ button to select the speaker, then press the CURSOR ‹ or › button to adjust all the speakers to the same volume.

- The “Auto” mode is selected: Press the CURSOR △ or ▼ button to select the speaker, then press the CURSOR ‹ or › button to adjust all the speakers to the same volume.

- The “Manual” mode is selected: Press the CURSOR △ or ▼ button to select the speaker, then press the CURSOR ‹ or › button to adjust all the speakers to the same volume.

- The “Auto” mode is selected: Press the CURSOR △ or ▼ button to select the speaker, then press the CURSOR ‹ or › button to adjust all the speakers to the same volume.

- The “Manual” mode is selected: Press the CURSOR △ or ▼ button to select the speaker, then press the CURSOR ‹ or › button to adjust all the speakers to the same volume.
**Advanced Setup – Part 2**

### Setting the crossover frequency individually for the different channels

1. Press the CURSOR < or > button to select the “Advanced” at the “Crossover Frequency” screen.

### Selecting the surround speakers for the different surround modes

1. Press the CURSOR Δ or β button to select the surround mode, then press the CURSOR < or > button to select the surround speaker.

#### A:
- When surround speakers A is used.

#### B:
- When surround speakers B is used.

#### A + B:
- When both surround speakers A and B are used.

2. Press the ENTER button to enter the setting.

### Settings for using a THX Ultra2 compatible subwoofer

1. Press the CURSOR Δ or β button to select the “THX Audio Setup” at the “Speaker Setup” menu, then press the ENTER button.

### Advanced:

- The crossover frequency can be set individually for the different speakers (page 56).

- The crossover frequency mode is valid only when subwoofer is set to ON, and when one or more speakers are set to SMALL, as described in section “Speaker Configuration” settings (page 53).

- If “LFE+Main” is set at “Subwoofer Setup”, the surround speakers can be set separately.

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

### About Speaker type setting when using both surround speakers A and B

- Make these settings when “Yes” is selected for the subwoofer in the “Speaker Configuration” settings. There is not displayed when “No” is selected (page 53).

- For the “WIDE SCREEN” and “7CH STEREO” DSP simulation modes, the surround speaker can be set separately.
When "Yes" is selected:
"Boundary Gain Compensation" can be selected and the compensation set to "OFF".

If the bass sound seems too strong:
Set "Boundary Gain Compensation" to "ON". This activates a filter that gently reduces very deep bass below 55 Hz to provide the flattest overall deep bass response. Select "ON" or "OFF" according to how strong you prefer the deep bass response to be.

Press the ENTER button.
• Return to the "THX Audio Setup" screen.

Press the CURSOR △ or □ button to select the "Exit", then press the ENTER button.
• Return to the "Speaker Setup" menu screen.

Press the CURSOR △ or □ button to select the “Exit”, then press the ENTER button.
• Return to the "THX Audio Setup" screen.

Setting the Room EQ Setup
Select the setting of an Equalizer that has been set with Auto Setup or Manual EQ.

Press the CURSOR △ or □ button to select the "Room EQ Setup" at the "Auto Setup / Room EQ" menu, then press the ENTER button.
• Display the "Room EQ Setup" screen.

1. When "Assign" is selected:
After completing system setup, select the desired equalizer setting using the ROOM EQ button.
• Equalizer settings for the individual surround modes can be stored in the memory.

Whenever the ROOM EQ button is pressed, the display switches as shown below.

2. Press the CURSOR △ or □ button to select the "All" or "Assign".

3. When "All" is selected:
- Press the ENTER button.
  • Display the "Select the EQ Curve" screen.

4. Press the ENTER button to enter the setting.
• The "Auto Setup / Room EQ" menu reappears.

Front:
Adjusts the frequency response of the surround speakers to match the characteristics of the front channel speakers.

Flat:
Adjusts the frequency response of all speakers to the flattest response. This mode is suitable for multi-channel music surround sound sources.

Manual:
Selects the setting value that was set in the Manual EQ Setup.
For details of the "Setting the Manual EQ Setup" (page 48).

When headphones are connected, the Room EQ cannot be used.

Audyssey:
Adjusts the frequency response of all speakers to correct the effects of room acoustics.

Others Setup

OFF Audyssey FlatManual
Front

Front:
Adjusts the frequency response of the surround speakers to match the characteristics of the front channel speakers.

Flat:
Adjusts the frequency response of all speakers to the flattest response. This mode is suitable for multi-channel music surround sound sources.

Manual:
Selects the setting value that was set in the Manual EQ Setup.
For details of the "Setting the Manual EQ Setup" (page 48).

When "Assign" is selected:
After completing system setup, select the desired equalizer setting using the ROOM EQ button.
• Equalizer settings for the individual surround modes can be stored in the memory.

Whenever the ROOM EQ button is pressed, the display switches as shown below.

3. Press the CURSOR △ or □ button to select the “All” or “Assign”.

4. Press the ENTER button to enter the setting.
• The "Auto Setup / Room EQ" menu reappears.

When "All" is selected:
- Press the ENTER button.
  • Display the "Select the EQ Curve" screen.

4. Press the CURSOR △ or □ button to select the "Exit", then press the ENTER button.
• Return to the "THX Audio Setup" screen.

Press the CURSOR △ or □ button to select the “Exit”, then press the ENTER button.
• Return to the "THX Audio Setup" screen.
Setting the Direct Mode Setup

Perform the ON/OFF setting of Room EQ when the surround mode is "DIRECT" or "PURE DIRECT".

1. Press the CURSOR Δ or ▼ button to select the "Direct Mode Setup" at the "Auto Setup / Room EQ" menu, then press the ENTER button.
   - Display the "Direct Mode Setup" screen.

2. Press the CURSOR ◄ or ► button to select the "ON" or "OFF".

3. Press the ENTER button to enter the setting.
   - The "Auto Setup / Room EQ" menu reappears.

Check the parameter

- The results of the measured items can be checked.
- The EQ parameters that were set in Auto Setup can be checked.
- This item is displayed, after the measurement result of the "Auto Setup / Room EQ" is decided.

Setting the MIC Input Select

Sets whether the setup microphone is connected to the PIN JACK (V.AUX L channel) connector or the MINI JACK (SETUP MIC) connector.

1. Press the CURSOR Δ or ▼ button to select the "Mic Input Select" at the "Auto Setup / Room EQ" menu, then press the ENTER button.
   - Display the "Mic Input Select" screen.

2. Press the CURSOR ◄ or ► button to select the "Mic" or "V.AUX L".

3. Press the ENTER button to enter the setting.
   - The "Autosetup / Room EQ" menu reappears.

Check the parameter

Sets whether the setup microphone is connected to the PIN JACK (V.AUX L channel) connector or the MINI JACK (SETUP MIC) connector.

1. Press the CURSOR Δ or ▼ button to select the "Parameter Check" at the "Auto Setup / Room EQ" menu, then press the ENTER button.
   - Display the "Parameter Check" screen.

2. Press the CURSOR ◄ or ► button to select the "EQ Parameter Check", then press the ENTER button.
   - Display the "EQ Parameter Check" screen.

3. Press the CURSOR ◄ or ► button to select the "Exit", then press the ENTER button.
   - The "EQ Parameter Check" screen reappears.

4. Press the CURSOR Δ or ▼ button to select the Equalizer curve, then press the ENTER button.
   - Display the "EQ Check" screen.

5. If the check ends, pressing the CURSOR ◄ or ► button to select the "Exit", then press the ENTER button.
   - The "EQ Parameter Check" screen reappears.

6. Press the CURSOR ◄ or ► button to select the speaker channel.

7. Press the CURSOR ◄ or ► button to select the "Exit", then press the ENTER button.
   - The "Parameter Check" screen reappears.

8. The results of the "Auto Setup" procedure can be reset even if the settings have been changed after performing the "Auto Setup" procedure:
   - Press the CURSOR Δ or ▼ button to select the "Restore Yes ◄", then press the CURSOR ◄ button.

9. Press the CURSOR ◄ or ► button to select the "Exit", then press the ENTER button.
   - The "Auto Setup / Room EQ" menu reappears.

10. Press the CURSOR ◄ or ► button to select the "Exit", then press the ENTER button.
    - The "System Setup Menu" reappears.

The results of the "Auto Setup" procedure can be reset even if the settings have been changed after performing the "Auto Setup" procedure:
- Press the CURSOR Δ or ▼ button to select the "Restore Yes ◄", then press the CURSOR ◄ button.
- Press the CURSOR ◄ or ► button to select the "Exit", then press the ENTER button.
- The "Auto Setup / Room EQ" menu reappears.
- The "System Setup Menu" reappears.
## Advanced Setup – Part 2

### System setup items and default values (set upon shipment from the factory)

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<td>Set the Room EQ setting with &quot;Off&quot; or &quot;Assign&quot; for each surround mode.</td>
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#### 2. Speaker Setup

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<td>6. Surround Speaker Setup</td>
<td>Use this function when using multiple surround speaker combinations for more ideal surround sound. Once the combinations of surround speakers is to be used for the different surround modes are preset, the surround speakers are selected automatically according to the surround mode.</td>
<td></td>
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<tr>
<td>7. THX Audio Compensation</td>
<td>When using a THX Ultra2 compatible subwoofer, set the subwoofer’s frequency response.</td>
<td>THX Ultra2 Subwoofer = NO</td>
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<tr>
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<td>When using two surround back speakers, set the distance of the two speakers.</td>
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### 3. Audio Input Setup

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<td>DVD</td>
<td>VOF</td>
</tr>
<tr>
<td>2</td>
<td>Component In Assign</td>
<td>This assigns the component video input terminals for the different input sources.</td>
</tr>
<tr>
<td>Component</td>
<td>DVD</td>
<td>VOF</td>
</tr>
<tr>
<td>1</td>
<td>DVD</td>
<td>VOF</td>
</tr>
<tr>
<td>3</td>
<td>Video Convert Mode</td>
<td>Set the input signal to be output from the monitor output terminal.</td>
</tr>
<tr>
<td>Video Convert Mode</td>
<td>DVD</td>
<td>VOF</td>
</tr>
<tr>
<td>1</td>
<td>DVD</td>
<td>VOF</td>
</tr>
<tr>
<td>4</td>
<td>HDMI Out Assign</td>
<td>This sets whether or not to use the function for converting analog video (composite video, S-Video or component video) signals into HDMI signals. When using this conversion function, set the color format and video range of the signals output from the HDMI terminal.</td>
</tr>
<tr>
<td>HDMI Out Assign</td>
<td>DVD</td>
<td>VOF</td>
</tr>
<tr>
<td>1</td>
<td>DVD</td>
<td>VOF</td>
</tr>
<tr>
<td>5</td>
<td>Audio Delay</td>
<td>Set the audio delay timing to synchronize the sound and video.</td>
</tr>
<tr>
<td>Audio Delay</td>
<td>DVD</td>
<td>VOF</td>
</tr>
<tr>
<td>1</td>
<td>DVD</td>
<td>VOF</td>
</tr>
<tr>
<td>6</td>
<td>On Screen Display</td>
<td>This sets whether or not to display the on-screen display that appears on the monitor screen when the controls on the remote control unit or main unit are operated.</td>
</tr>
<tr>
<td>On Screen Display</td>
<td>DVD</td>
<td>VOF</td>
</tr>
<tr>
<td>1</td>
<td>DVD</td>
<td>VOF</td>
</tr>
</tbody>
</table>

### 5. Advanced Playback

<table>
<thead>
<tr>
<th>Advanced Playback</th>
<th>Default settings</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1ch Direct/Stereo</strong></td>
<td>The speaker settings can be changed specifically for playing in the 2-channel direct or stereo mode.</td>
<td></td>
</tr>
<tr>
<td>1ch Direct/Stereo</td>
<td>DVD</td>
<td>VOF</td>
</tr>
<tr>
<td>1</td>
<td>DVD</td>
<td>VOF</td>
</tr>
<tr>
<td><strong>Dolby Digital Setup</strong></td>
<td>Turn the audio compression on or off when down-mixing Dolby Digital signals.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>DVD</td>
<td>VOF</td>
</tr>
<tr>
<td>1</td>
<td>DVD</td>
<td>VOF</td>
</tr>
<tr>
<td><strong>Auto Surround Mode</strong></td>
<td>Set the Auto surround mode function.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>DVD</td>
<td>VOF</td>
</tr>
<tr>
<td>1</td>
<td>DVD</td>
<td>VOF</td>
</tr>
<tr>
<td><strong>Manual EQ Setup</strong></td>
<td>This parameter is for optimizing the Room EQ with which the audio signals are produced from the speakers.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>DVD</td>
<td>VOF</td>
</tr>
<tr>
<td>1</td>
<td>DVD</td>
<td>VOF</td>
</tr>
</tbody>
</table>
### Advanced Setup – Part 2

#### 6. Option Setup

<table>
<thead>
<tr>
<th>Option Setup</th>
<th>Default settings</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Channel Setup</td>
<td>The number of channels that you wish to play back in each zone are assigned to each zone accordingly.</td>
<td>Main Input Zone</td>
</tr>
<tr>
<td>2 Power Amp Assign</td>
<td>To suit your preference, a power amp other than the front can be assigned to a playback channel, and the front channel bi-amp playback, or the ZONE2 or ZONE3 playback channel can be output from the AV C11XV speakers.</td>
<td>Main</td>
</tr>
<tr>
<td>3 Volume Control</td>
<td>This sets the volume level of each zone output. <strong>Volume Limit:</strong> This sets the upper limit for the master volume. <strong>Power On Level:</strong> This sets the volume level upon switching on the power of each zone. <strong>Mute Level:</strong> This sets the amount of attenuation of the audio output when each zone is muted. <strong>Volume Level:</strong> This sets whether the output level of ZONE2 to 3 is fixed or variable.</td>
<td>Main</td>
</tr>
<tr>
<td>4 Trigger Out Setup</td>
<td>This sets the Trigger Out output for the different input sources. If “ZONE = MAIN” is selected, settings can be made for the individual surround modes.</td>
<td></td>
</tr>
<tr>
<td>5 ZONE2/3 Tone/Ch Lev.</td>
<td>Adjust the tone and channel level of the sound output from ZONE2 and ZONE3.</td>
<td>Zone2</td>
</tr>
<tr>
<td>6 Digital Out Assign</td>
<td>This sets the OPTICAL2 output for digital audio recording “ZONE3/REC SELECT” or “ZONE2 SELECT”.</td>
<td>ZONE3/REC SELECT</td>
</tr>
<tr>
<td>7 Setup, Memory/Lock</td>
<td>This stores the current user settings in the memory.</td>
<td>Setup Lock = OFF</td>
</tr>
</tbody>
</table>
## Troubleshooting

### If a problem should arise, first check the following.
1. Are the connections correct?
2. Have you operated the receiver according to the Operating Instructions?
3. Are the speakers, and other connected components operating properly?

**If this unit is not operating properly, check the items listed in the table below. Should the problem persist, there may be a malfunction. Disconnect the power immediately and contact your store of purchase.**

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause</th>
<th>Measures</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display not lit and sound not produced when power switch set to on.</td>
<td>- Power supply cord not plugged in securely.</td>
<td>- Check the insertion of the power supply cord plug.</td>
<td>19</td>
</tr>
<tr>
<td>Display lit but sound not produced.</td>
<td>- Speaker cables not securely connected.</td>
<td>- Check that the connections are correct.</td>
<td>6</td>
</tr>
<tr>
<td>Nothing is displayed on monitor.</td>
<td>- ARC-A11XV's video output terminals and monitor's input terminals are not properly connected.</td>
<td>- Set the TV's input selector to the supported input format of the connected monitor equipment.</td>
<td>16, 17</td>
</tr>
<tr>
<td>No DTS sound is produced.</td>
<td>- DVD player's audio output setting is not set to bitstream.</td>
<td>- Set the DVD player's audio output setting to &quot;DTS.&quot;</td>
<td>44, 45</td>
</tr>
<tr>
<td>Ultra2 Cinema / THX Music Mode / THX Games Mode cannot be set.</td>
<td>- Surround back speaker set to 1.</td>
<td>- Connect two surround back speakers.</td>
<td>6, 53, 57</td>
</tr>
<tr>
<td>Copying from DVD to VCR is not possible.</td>
<td>- Copying between a source such as DVD and a VCR is not usually possible, as DVDs are often encoded with copy-protection signals that prevent VCR recording.</td>
<td>- Copying is not possible.</td>
<td>—</td>
</tr>
<tr>
<td>No sound is produced from subwoofer.</td>
<td>- Subwoofer's power is not on.</td>
<td>- Turn on the power.</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>- Subwoofer's initial setting is set to &quot;NO&quot;.</td>
<td>- Set the setting to &quot;YES&quot;.</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>- Subwoofer's output is not connected.</td>
<td>- Connect properly.</td>
<td>6, 19</td>
</tr>
<tr>
<td></td>
<td>- The subwoofer's channel volume level is set to &quot;OFF&quot;.</td>
<td>- Turn the subwoofer's channel volume level up.</td>
<td>31</td>
</tr>
<tr>
<td>No test tones are produced.</td>
<td>- Surround mode is set to a mode other than Dolby Surround.</td>
<td>- Set to Dolby Surround.</td>
<td>—</td>
</tr>
<tr>
<td>No sound is produced from surround speakers.</td>
<td>- Batteries dead.</td>
<td>- Replace with new batteries.</td>
<td>3</td>
</tr>
<tr>
<td>This unit does not operate properly when remote control unit is used.</td>
<td>- Remote control unit too far from this unit.</td>
<td>- Move closer.</td>
<td>3</td>
</tr>
<tr>
<td>An image is not projected with an HDMI/DVI-D connection.</td>
<td>- The output format of the connected player (HDMI/DVI-D FORMAT) does not match the supported input format of connected monitor equipments.</td>
<td>- Check whether the output format of the connected player (HDMI/DVI-D FORMAT) matches the supported input format of connected monitor equipments.</td>
<td>16, 17</td>
</tr>
<tr>
<td>The HDMI audio is not output.</td>
<td>- The ARC-A11XV does not play HDMI audio signals.</td>
<td>- Check the HDMI connection.</td>
<td>16, 17</td>
</tr>
<tr>
<td>Power has turned off and the power indicator is flashing red.</td>
<td>- The ARC-A11XV's HDMI output terminals and monitor's input terminals are not properly connected.</td>
<td>- Set the HDMI audio playback setting at the &quot;HDMI In Assign&quot; settings to &quot;AMP&quot;.</td>
<td>44, 45</td>
</tr>
<tr>
<td>Sound is only produced from the center speaker.</td>
<td>- The set's internal temperature has risen and the protection circuit has been activated.</td>
<td>- Turn off the power, then wait for the set to fully cool off before turning the power back on.</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>- The core wires of the speaker cords are touching each other or the speaker cords are touching the set.</td>
<td>- Check the connections of all the speaker cords.</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>- Put the ARC-A11XV's rear panel, cables are touching each other or the speaker cords.</td>
<td>- Set the ARC-A11XV's rear panel to a well-ventilated place.</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>- Turn off the power, then wait for the set to fully cool off before turning the power back on.</td>
<td>- Disconnect the power and contact a DENON customer service center.</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>- The ARC-A11XV's HDMI output terminals and monitor's input terminals are not properly connected.</td>
<td>- The ARC-A11XV is malfunctioning.</td>
<td>—</td>
</tr>
</tbody>
</table>
Types of surround speakers

There are currently various types of multi-channel signals (signals or formats with more than two channels).

- Movie audio:

  - Dolby Digital (including Surround EX), DTS (including Surround ES), DVD-Audio, and Super Audio CD.

  - These signals are designed to recreate a 360° sound field using three to five speakers.

  - In this case the speakers should surround the listener from all sides to create a uniform sound field from 360°. Ideally the surround speakers should function as “point” sound sources in the same way as the front speakers.

- Other types of audio:

  - These signals are designed to recreate a 360° sound field using three to five speakers.

  - In this case the speakers should surround the listener from all sides to create a uniform sound field from 360°. Ideally the surround speakers should function as “point” sound sources in the same way as the front speakers.

  - These two types of sources thus have different properties, and different speaker settings, particularly for the surround speakers, are required in order to achieve the ideal sound.

- Types of sources

  - Movie audio:

    - Signals created to be played in movie theaters.

  - Other types of audio:

    - Signals created to be played in movie theaters.

  - To do so, in some cases the number of surround speakers is increased (to four or eight) or speakers with bipolar or dipolar properties are used.

  - MOVIE mode is used to achieve the ideal sound.

  - The AVC-A11XV’s surround speaker selection function makes it possible to change the settings according to the combination of surround speakers being used and the surrounding environment in order to achieve the ideal surround sound for all sources. This means that you can connect a pair of bipolar or dipolar surround speakers (mounted on either side of the prime listening position), as well as a separate pair of direct radiating (monopolar) speakers placed at the rear corners of the listening room.

  - To achieve these effects, we recommend placing the speakers for the surround left and right channels slightly more towards the front than with conventional surround systems. Doing so sometimes increases the surround effect when playing conventional 5.1-channel sources in the THX Surround EX mode.

  - Additional Information

  - Speaker(s) for one or two channels are required in order to achieve a THX Surround EX system with the AVC-A11XV. Adding these, however, allows you to achieve stronger surround effects not only with sources recorded in THX Surround EX, but also with conventional 2- to 5.1-channel sources.

  - The WIDE SCREEN mode is a mode for achieving surround sound with up to 7.1 channels using surround back speakers, for sources recorded in conventional Dolby Surround as well as Dolby Digital 5.1-channel and DTS 5.1-channel sources.

  - Furthermore, all the Denon original surround modes (page 29) are compatible with 7.1-channel playback, so you can enjoy 7.1-channel sound with any signal source.

- Number of surround back speakers

  - With THX Surround EX, the surround back channel consists of one channel of playback signals, but we recommend using two speakers. When using dipolar speakers in particular, it is essential to use two speakers.

  - Using two speakers results in a smoother blend with the sound of the surround channels and better sound positioning of the surround back channel when listening from a position other than the center.

- Placement of the surround left and right channels when using surround back speakers

  - Using surround back speakers greatly improves the positioning of the sound at the rear. Because of this, the surround left and right channels play an important role in achieving a smooth transition of the acoustic image from the front to the back. As shown on the diagram above, in a movie theater the surround signals are also produced from diagonally in front of the listeners, creating an acoustic image as if the sound were floating in space.

  - To achieve these effects, we recommend placing the speakers for the surround left and right channels slightly more towards the front than with conventional surround systems. Doing so sometimes increases the surround effect when playing conventional 5.1-channel sources in the THX Surround EX mode.

  - Additional Information

  - Check the surround effects of the various modes before selecting the surround mode.
### Additional Information

**Speaker setting examples**

Here we describe a number of speaker settings for different purposes. Use these examples as guides to set up your system according to the type of speakers used and the main usage purpose.

1. **Basic setting for primarily watching movies**
   - This is recommended when mainly playing movies and using regular single way or 2-way speakers for the surround speakers.

2. **Setting for primarily watching movies using diffusion type speakers for the surround speakers**
   - For the greatest sense of surround sound envelopment, diffuse radiation speakers such as bipolar types, or dipolar (THX) types, provide a wider dispersion than is possible to obtain from a direct radiating speaker (monopolar). Place these speakers at either side of the prime listening position, mounted above ear level.

3. **When using different surround speakers for movies and music**
   - To achieve more effective surround sound for both movies and music, use different sets of surround speakers and different surround modes for the two types of sources.

---

**Additional Information**

- Set the front speakers with their front surfaces as flush with the TV or monitor screen as possible. Set the center speaker between the front left and right speakers and no further from the listening position than the front speakers.
- Consult the owner's manual for your subwoofer for advice on placing the subwoofer within the listening room.
- If the surround speakers are direct-radiating (monopolar) then place them slightly behind and at an angle to the listening position and parallel to the walls at a position 60 to 90 centimeters (2 to 3 feet) above ear level at the prime listening position.

---

**Example:**

- Movie sources (Dolby, DTS surround, etc.)

**THX** or **THX 5.1** mode.

- Speakers A
  - Music sources (DVD video, DTS CD, etc.)
  - “Dolby/DTS surround”

**Example:**

- The speakers can be switched at the touch of a button by turning HOME THX CINEMA on when playing movies and off when playing multichannel music.
Additional Information

[2] When not using surround back speakers

- Set the front speakers with their front surfaces flush with the TV or monitor screen as possible. Set the center speaker between the front left and right speakers and no further from the listening position than the front speakers.
- Consult the owner’s manual for your subwoofer for advice on placing the subwoofer within the listening room.
- If the surround speakers are direct-radiating (monopolar) then place them slightly behind and at an angle to the listening position and parallel to the walls at a position 60 to 90 centimeters (2 to 3 feet) above ear level at the prime listening position.
- Connect the surround speakers to the surround speaker A terminals on the AVC-A11XV and set settings on the setup menu to “A”. (This is the factory default setting.)
- The surround speakers can be switched freely during playback with the surround parameter adjustment.

Additional Information

Dolby Digital compatible media and playback methods

Marks indicating Dolby Digital compatibility:

- DVD
- Others (satellite broadcasts, CATV, etc.)

<table>
<thead>
<tr>
<th>Media</th>
<th>Dolby Digital compatible media and playback methods</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Dolby Digital is a new multi-channel playback format developed by Dolby Laboratories. Dolby Digital consists of up to “5.1” channels - front left, front right, center, surround left, surround right, and an additional channel exclusively reserved for additional deep bass sound effects (the Low Frequency Effects – LFE – channel), also called the “.1” channel, containing bass frequencies of up to 120 Hz. Unlike the analog Dolby Pro Logic format, Dolby Digital’s main channels can all contain full range sound information, from the lowest bass, up to the highest frequencies – 22 kHz. The signals within each channel are distinct from the others, allowing pinpoint sound imaging, and Dolby Digital offers tremendous dynamic range from the quietest, softest sounds, free from noise and distortion.</td>
</tr>
</tbody>
</table>

Dolby Digital and Dolby Pro Logic

Comparison of home surround systems

<table>
<thead>
<tr>
<th>Dolby Digital</th>
<th>Dolby Pro Logic</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. recorded in surround elements</td>
<td>S.1 ch</td>
</tr>
<tr>
<td>No. playback channels</td>
<td>S.1 ch</td>
</tr>
<tr>
<td>Playback channels (max.)</td>
<td>L, R, C, L, S, SW, SSW, recommended</td>
</tr>
<tr>
<td>Audio processing</td>
<td>Digital discrete audio processing Dolby Digital, Dolby Pro Logic</td>
</tr>
<tr>
<td>High frequency playback limit of surround channel</td>
<td>20 kHz</td>
</tr>
</tbody>
</table>

Dolby Pro Logic II

- Dolby Pro Logic II is a new multi-channel playback format developed by Dolby Laboratories using feedback logic steering technology and offering improvements over conventional Dolby Pro Logic circuits.
- Dolby Pro Logic II can be used to decode not only sources recorded in Dolby Surround (•) but also regular stereo sources into five channels (front left, front right, center, surround left and surround right to achieve surround sound). Whereas with conventional Dolby Pro Logic the surround channel playback frequency band was limited, Dolby Pro Logic II offers a wider band range (20 Hz to 20 kHz or greater). In addition, the surround channels were monaural (the surround left and right channels were the same) with previous Dolby Pro Logic, but Dolby Pro Logic II they are played as stereo signals.
- Various parameters can be set according to the type of source and the contents, so it is possible to achieve optimum decoding.
Dolby Headphone • This is a three-dimensional sound technology developed jointly by Dolby Laboratories and Lake Technology Ltd. of Australia for achieving surround sound using regular headphonest. • Previously, when using headphones all the sounds resonated inside the head and it was uncomfortable to listen with headphones for long periods of time. Dolby Headphone simulates speaker playback in a room and places the sound at the front or the sides, outside the head, to achieve a powerful sound like the sound of movie or home theaters. This technology is mainly for multichannel audio/video equipment with Dolby Digital or Dolby Pro Logic Surround decoding functions and works with a high performance digital signal processing (DSP) chip. • Dolby Headphone is effective not only for multichannel sources but also for stereo programs. • On the AV-A11XV, it is possible to output signals encoded in the Dolby Headphone mode from the recording output terminal and record them on a separate recorder.

DTS Digital Surround DTS Digital Surround (also called simply DTS) is a multi-channel digital signal format developed by Digital Theater Systems. DTS offers the same “5.1” playback channels as Dolby Digital (front left, front right and center, surround left and surround right) as well as the stereo 2-channel mode. The signals for the different channels are fully independent, eliminating the risk of deterioration of sound quality due to interference between signals, crosstalk, etc. DTS features a relatively higher bit rate as compared to Dolby Digital (1128 kbps for CDs and LDs, 1536 kbps for DVDs) so it operates with a relatively low compression rate. Because of this the amount of data is great, and when DTS playback is used in movie theaters, a separate CD-ROM synchronized with the film is played. With LDs and DVDs, there is of course no need for an extra disc; the pictures and sound can be recorded simultaneously on the same disc, so the discs can be handled in the same way as discs with other formats. There are also music CDs recorded in DTS. These CDs include 5.1-channel surround signals (compared to two channels on current CDs). They do not include picture data, but they offer surround playback on CD players that are equipped with digital outputs (PCM type digital output required). DTS surround track playback offers the same intimate, grand sound as in a movie theater, right in your own listening room.

DTS compatible media and playback methods

<table>
<thead>
<tr>
<th>Media</th>
<th>Dolby Digital output terminals</th>
<th>Playback method (reference page)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD</td>
<td>Optical or coaxial digital output (same as for PCM)</td>
<td>×2 Set the input mode to “ AUTO” or “DTS” (page 21). Never set the mode to “ANALOG” or “PCM”.</td>
</tr>
<tr>
<td>DVD</td>
<td>Optical or coaxial digital output (same as for PCM)</td>
<td>×3 Set the input mode to “ AUTO” or “DTS” (page 21).</td>
</tr>
</tbody>
</table>

DTS signals are recorded in the same way on CDs and LDs as PCM signals. Because of this, the un-decoded DTS signals are output as random “fuzzy” noise from the CD or LD player’s analog outputs. If this noise is played with the amplifier set at a very high volume, it may possibly cause damage to the speakers. To avoid this, be sure to switch the input mode to “AUTO” or “DTS” before playing CDs or LDs recorded in DTS. Also, never switch the input mode to “ANALOG” or “PCM” during playback. The same holds true when playing CDs or LDs on a DVD player or LD/DVD compatible player. For DVDs, the DTS signals are recorded in a special way so this problem does not occur.

For DVDs, the DTS signals are recorded in a special way so this problem does not occur. The signals provided at the digital outputs of a CD or LD player may undergo some sort of internal signal processing (bit depth level adjustment, sampling frequency conversion, etc.). In this case the DTS-encoded signals may be processed erroneously, in which case they cannot be decoded by the AV-A11XV, or may only produce noise. Before playing DTS signals for the first time, turn down the master volume to a low level, start playing the DTS disc, then check whether the DTS indicator on the AV-A11XV lights before turning up the master volume.

DTS-ES Extended Surround

DTS-ES Extended Surround is a new multi-channel digital signal format developed by Digital Theater Systems Inc. While offering high compatibility with the conventional DTS Digital Surround format, DTS-ES Extended Surround greatly improves the 360-degree surround impression and space expression thanks to further expanded surround signals. This format has been used professionally in movie theaters since 1999. In addition to the 5.1 surround channels (FL, FR, C, SL, SR and LFE), DTS-ES Extended Surround also offers the SB (Surround Back, sometimes also referred to as “surround center”) channel for surround playback with a total of 6.1 channels. DTS-ES Extended Surround includes two signal formats with different surround signal re-channel methods, as described below.

DTS-ES™ Discrete 6.1

DTS-ES Discrete 6.1 is the newest recording format. With it, all 6.1 channels (including the SB channel) are recorded independently using a digital discrete system. The main feature of this format is that because the SL, SR and SB channels are fully independent, the sound can be designed with total freedom and it is possible to achieve a sense that the acoustic images are moving about freely among the background sounds surrounding the listener from 360 degrees. Though maximum performance is achieved when sound tracks recorded with this system are played using a DTS-ES decoder, when played with a conventional DTS decoder the SB channel signals are automatically down-mixed to the SL and SR channels, so none of the signal component are lost.

DTS-ES™ Matrix 6.1

With this format, the additional SB channel signals undergo matrix encoding and are input to the SL and SR channels beforehand. Upon playback they are decoded to the SL, SR and SB channels. The performance of the encoder used at the time of re-coding can be fully matched using a high precision digital matrix decoder developed by DTS, thereby achieving surround sound more faithful to the producer’s sound design aims with conventional 5.1- or 6.1-channel systems. In addition, the bitstream format is 100% compatible with conventional DTS signals, so the effect of the Matrix 6.1 format can be achieved even with 5.1-channel signal sources. Of course it is also possible to play DTS-ES Matrix 6.1 encoded source with a DTS 5.1-channel decoder.
Additional Information

When DTS-ES Discrete 6.1 or Matrix 6.1 encoded sources are decoded with a DTS-ES decoder, the format is automatically detected upon decoding and the optimum playing mode is selected. However, some Matrix 6.1 sou ces may be detected as having a 5.1-channel format, so the DTS-ES Matrix 6.1 mode must be set manually to play these sou ces. (For instructions on selecting the surround mode, see page 25.)

- **DTS Neo:6 surround**
  This mode applies conventional 2-channel signals to the high precision digital matrix decoder used for DTS-ES Matrix 6.1 to achieve 6.1-channel surround playback. High precision input signal detection and matrix processing enable full band reproduction (frequency response of 20 Hz to 20 kHz or greater) for all 6.1 channels, and separation between the different channels is improved to the same level as that of a digital discrete system.

- **DTS Neo:6 surround**
  This mode is optimum for playing movies. Decoding is performed with emphasis on separation performance to achieve the same atmosphere with 2-channel sources as with 6.1-channel sources. This mode is effective for playing sources recorded in conventional surround formats as well, because the in-phase component is assigned mainly to the center channel (C) and the reversed phase component to the surround (SL, SR and SB channels).

- **DTS Neo:6 Cinema**
  This mode applies conventional 2-channel signals to the high precision digital matrix decoder used for DTS-ES Matrix 6.1 to achieve 6.1-channel surround playback. High precision input signal detection and matrix processing enable full band reproduction (frequency response of 20 Hz to 20 kHz or greater) for all 6.1 channels, and separation between the different channels is improved to the same level as that of a digital discrete system.

- **DTS Neo:6 surround**
  This mode is optimum for playing movies. Decoding is performed with emphasis on separation performance to achieve the same atmosphere with 2-channel sources as with 6.1-channel sources. This mode is effective for playing sources recorded in conventional surround formats as well, because the in-phase component is assigned mainly to the center channel (C) and the reversed phase component to the surround (SL, SR and SB channels).

- **DTS Neo:6 Music**
  This mode is suited mainly for playing music. The front channel (FL and FR) signals bypass the decoder and are played directly so there is no loss of sound quality, and the effect of the surround signals output from the center (C) and surround (SL, SR and SB) channels add a natural sense of expansion to the sound field.

**[4] DTS 96/24**
The sampling frequency, number of bits and number of channels used for recording of music, etc., in studios has been increasing in recent years, and there are a growing number of high quality signal sources, including 96 kHz/24 bit 5.1-channel sources. For example, there are high picture/sound quality DVD video sources with 96 kHz/24 bit stereo PCM audio tracks.

However, because the data rate for these audio tracks is extremely high, there are limits to recording them on two channels only, and since the quality of the pictures must be restricted it is common to only include still pictures.

In addition, 96 kHz/24 bit 5.1-channel surround is possible with DVD video sources, but DVD audio players are required to play them with this high quality.

DTS 96/24 is a multi-channel digital signal format developed by Digital Theater Systems Inc. in order to deal with this situation. Conventional surround formats used sampling frequencies of 48 or 44.1 kHz, so 20 kHz was about the maximum playback signal frequency. With DTS 96/24, the sampling frequency is increased to 96 or 88 2 kHz to achieve a wide frequency range of over 40 kHz.

In addition, DTS 96/24 has a resolution of 24 bits, resulting in the same frequency band and dynamic range as 96 kHz/24 bit PCM.

As with conventional DTS Surround, DTS 96/24 is compatible with a maximum of 5.1 channels, so sou ces reco ded using DTS 96/24 can be played in high sampling frequency, multiple channel audio with such normal media as DVD videos and CD's.

Thus, with DTS 96/24, the same 96 kHz/24 bit multi-channel surround sound as with DVD-Audio can be achieved while viewing DVD-Video images on a conventional DVD-Video player. With DTS 96/24 compatible CD's, 96 kHz/24 bit multi-channel surround can be achieved using normal CD/DVD players.

Even with the high quality multi-channel sources, the recording time is the same as with conventional DTS surround sou ces.

What's more, DTS 96/24 is fully compatible with the conventional DTS surround format, so DTS 96/24 signal sources can be played with a sampling frequency of 48 kHz or 44.1 kHz on conventional DTS or DTS-ES surround decoders.

- **[1] A DVD player with DTS digital output capabilities (for CD/DVD players, a player with digital outputs for conventional DTS CD/LSUs) and a disc reco ded in DTS 96/24 are required.
- **[2] The resolution is 24 or 20 bits, depending on the decoder.

**[5] Home THX Cinema Surround**
THX is an exclusive set of standards and technologies established by the world-renowned film production company, Lucasfilm Ltd. THX grew from George Lucas' personal desire to make your experience of the film intended. Movie soundtracks are mixed in special movie theaters called dubbing stages and are designed to be played back in movie theaters with similar equipment and conditions. The soundtrack created for movie theaters is then transferred directly onto Laserdisc, VHS tape, DVD, etc., and is not changed for playback in a small home theater environment.

THX engineers developed patented technologies to accurately translate the sound from the movie theater environment into the home, correcting the tonal and spatial errors that occur. On the AV-C Salvation (1901), when the Home THX Cinema mode is on, THX post-processing is automatically added after the Dolby Pro Logic, Dolby Digital or DTS decoder.

- **Re-Equalization™**
  The tonal balance of a film soundtrack will be excessively bright and harsh when played back over audio equipment in the home because film soundtracks are designed to be played back in large movie theaters using very different professional equipment. Re-Equalization restores the correct tonal balance for listening to a movie soundtrack in a normal home environment.

- **Timbre Matching™**
  The human ear changes our perception of a sound depending on the direction from which the sound is coming. In a movie theater, there is an array of surround speakers so that the surround information is all around you. In a home theater, only two speakers (located to the side of your head) are used. The Timbre Matching feature filters the information going to the surround speakers so that they more closely match the tonal characteristics of the sound coming from the front speakers. This ensures seamless paneling between the front and surround speakers.

**[6] Adaptive Decorrelation™**
In a movie theater, a large number of surround speakers help create an enveloping surround sound experience, while in a home theater there are usually only two speakers. This can make the surround speakers sound like headphones that lack spaciousness and envelopment. The surround sounds will also collapse into the closest speaker as you move away from the middle seating position. Adaptive Decorrelation slightly changes one surround channel’s time and phase relationship with respect to the other surround channel. This expands the listening position and creates—with only two speakers—the same spacious surround experience as in a movie theater.

**THX Ultra2™**
Before any home theater component can be THX Ultra2 certified, it must incorporate all the features above and also pass a rigorous series of quality and performance tests. Only then can a product feature the THX Ultra2 logo, which is your guarantee that the Home Theater products you purchase will give you superb performance for many years to come. THX Ultra2 requirements cover every aspect of the product including power amplifier performance, pre-amplifier performance and operation, as well as hundreds of other parameters in both the digital and analog domain.

In addition to improvements to the power amplifier with respect to previous THX Ultra standards, three surround modes have been added: the THX Ultra2 Cinema mode, THX Music Mode and THX Games Mode.

**THX Ultra2 Cinema**
THX Ultra2 Cinema mode plays 5.1 movies using all 8 speakers giving you the best possible movie watching experience. In this mode, THX processing blends the side surround speakers and back surround speakers providing the optimal mix of ambient and directional surround sounds.

DTS-ES (Matrix and 6.1 Discrete) and Dolby Digital Surround EX encoded soundtracks will be automatically detected in Ultra2 Cinema mode if the appropriate flag has been encoded. Some Dolby Digital Surround EX soundtracks are missing the digital flag that allows automatic switching. If you know that the movie that you are watching is encoded in Surround EX, you can manually select the THX Surround EX playback mode, otherwise THX Ultra2 Cinema mode will apply processing to provide optimum replay.
THX Music Mode
For the replay of 5.1 multichannel music the THX Music Mode should be selected. In this mode new THX processing is applied to the surround channels of all 5.1 encoded music sources such as analog, PCM, DTS and Dolby Digital. This accurately places all game audio surround information, providing a full 360 degree playback environment. THX Games Mode is unique as it gives you a smooth transition of audio in all points of the surround field.

THX Games Mode
For the replay of stereo and multi-channel game audio the THX Games Mode should be selected. In this mode THX ASA processing is applied to the surround channels of all 5.1 and 2.0 encoded game sources such as analog, PCM, DTS and Dolby Digital. This accurately places all game audio surround information, providing a full 360 degree playback environment.

Advanced Speaker Array™ (ASA)
ASA is a revolutionary THX technology which processes the sound field 2 to 2 side and 2 back surround speakers to provide the optimal surround sound experience. When you setup your home theater system using all eight speaker outputs, Left, Center, Right, Surround Right, Surround Back Right, Surround Back Left, Surround Left and Subwoofer placing the two Surround Back speakers close together facing the front of the room as shown in the diagram will provide the largest sweet spot. If for practical reasons you have to place the Surround Back speakers apart, you will need to go THX Audio Set up screen and choose the setting that most closely corresponds to the speaker spacing, which will re-optimize the surround sound field.

Boundary Gain Compensation
If your chosen listening room layout (for practical or aesthetic reasons) results in the most of the listeners being close to the rear wall, the resulting bass level can be sufficiently reinforced by the boundary that the overall sound quality becomes “boomy”. THX Ultra2 receivers and controllers contain the BGC (Boundary Gain Compensation) feature to provide an improved bass balance. BGC can be selected by choosing “THX Ultra2 Subwoofer–Yes” from the “Boundary Gain Compensation” section of the THX Audio setup menu.

THX Surround EX
In 1999, a new surround system was launched simultaneously with the release of the movie “Star Wars Episode I”, “Digital Surround EX”. THX Digital Surround EX is a new movie sound track that greatly enhances the sense of spatial expression and the positioning of the surround channel sound. The result is 360 degrees of movement and movement sound effects that seem to pass right over the listener’s head.

THX Ultra2 Subwoofer–Yes” from the “Boundary Gain Compensation” feature to provide an improved overall sound quality becomes “boomy”. THX Ultra2 being close to the rear wall, the resulting bass level.

If your chosen listening room layout (for practical or aesthetic reasons) results in the most of the listeners being close to the rear wall, the resulting bass level can be sufficiently reinforced by the boundary that the overall sound quality becomes “boomy”. THX Ultra2 receivers and controllers contain the BGC (Boundary Gain Compensation) feature to provide an improved bass balance. BGC can be selected by choosing “THX Ultra2 Subwoofer–Yes” from the “Boundary Gain Compensation” section of the THX Audio setup menu.

Audyssey MultEQ XT

There are several factors that can degrade the sound from even the best loudspeakers in a listening room. One of the most important is the interaction of sound from the loudspeakers with large surfaces such as walls, the floor, and the ceiling in the room. Even with careful loudspeaker placement and acoustical treatments, there are significant problems that are caused by room acoustics. These include reflections from nearby surfaces and standing waves that are created between large parallel surfaces in the room.

In a home theater the situation is further complicated because there are several listening locations. The effects of room acoustics on the sound arriving at each person’s ears are very different and the result is a listening experience that is degraded in a different way for every person in the room. It is not uncommon to have variations in two adjacent seats that are as large as 10 dB, particularly in the frequency range below 250 Hz. The solution to this problem is to apply room correction after precisely measuring how each loudspeaker interacts with the room. Because the room causes variations in the frequency response of the loudspeakers that are so large from seat to seat, it is important to measure each loudspeaker at several locations in the listening room. This should be done even if there is only one listener. Measurement at a single location is not representative of the acoustical problems in the room and will, in most cases, degrade overall performance.

Audyssey MultEQ XT is the only technology that can achieve room correction for multiple listeners in a large listening area. It does so by combining the data collected at several points in the room on each loudspeaker and then applying correction that minimizes the acoustical effects of the room and is matched to the frequency resolution of human perception (known as psychacoustics). Furthermore, MultEQ XT correction is applied both in frequency and in time and so there are no artifacts (such as smearing of sound or modal ringing) that are sometimes associated with traditional methods of room equalization.

In addition to correcting frequency response problems over a wide listening area, Audyssey MultEQ XT provides a completely automated sound system set-up process. It identifies how many loudspeakers are connected to the amplifiers and whether they are full-range, satellites, or subwoofers. If there is a least one subwoofer connected, Audyssey MultEQ XT determines the optimum crossover frequency between satellite and the subwoofer(s). It automatically checks the polarity of each loudspeaker and the speaker user if any that may be wired out-of-phase relative to the others. It measures the distance to each loudspeaker from the main listening position and adjusts the delays so that sound from each loudspeaker arrives at the same time. Finally, Audyssey MultEQ XT determines the playback level of each loudspeaker and adjusts the volume trim so that all levels are equal.

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HDCD® (High Definition Compatible Digital®)
HDCD is an encoding/decoding technology that greatly reduces the distortion that occurs upon digital recording while maintaining compatibility with the conventional CD format, thus expanding the dynamic range and achieving a high resolution. Conventional CDs and HDCD compatible CDs are identified automatically to select the optimum digital processing.

HDCD® and Microsoft® are either registered trademarks or trademarks of Microsoft Corporation, Inc. in the United States and/or other countries. HDCD system manufactured under license from Microsoft Corporation, Inc. This product is covered by one or more of the following: In the USA: 5,479,168, 5,638,074, 5,640,161, 5,808,574, 5,838,274, 5,854,600, 5,864,311, 5,872,531, and in Australia: 669114. Other patents pending.

DENON LINK (DENON Digital Link)
High-grade LPCM 24-bit, 96-kHz, 6-channel or 24-bit, 192-kHz, 2-channel digital input is possible when the AVC-A11XV is connected via a shielded twisted pair (STP) cable to a Denon DVD player that supports Denon Digital Link, since Denon Digital Link uses low-voltage differential signaling (LVDS), transfer capabilities of greater than 1.2 Gbps at a differential voltage of approximately 0.3Vpp are possible.

AL24 Plus (AL24 Processing Plus)
DENON has further developed its proprietary AL24 Processing, an analog waveform reproduction technology, to support the 192-kHz sampling frequency of DVD-Audio. AL24 Processing Plus, thoroughly suppresses quantization noise associated with D/A conversion of LPCM signals to reproduce the low-level signals with optimum clarity that will bring out all the delicate nuances of the music. Equipped for not only front left and right channels but also for the surround left and right, center and subwoofer channels.

About IEEE1394
IEEE1394 is an international standard established by the Institute of Electrical and Electronics Engineers (IEEE) of the United States. The AVC-A11XV can be connected to an IEEE1394 compatible device using an IEEE1394 cable to enable digital transfer of multi-channel audio sources (DVD Audio discs, Super Audio CDs, etc.) with a single cable. The AVC-A11XV’s transfer format is compatible with A&M protocol. In addition to A&M protocol, IEEE1394 transfer formats also include MPEG-TS, DV, etc. The AVC-A11XV is compatible with a data transfer speed of up to 540 Mbps. The IEEE1394 maximum data transfer speeds are defined as approximately 100, 200 or 400 Mbps, expressed respectively as S100, S200 and S400. When S100 or S200 devices are connected, the actual transfer rate may be slower than 400 Mbps, depending on the device’s specifications. As far as possible, interconnect devices with the same maximum data transfer rate.

The AVC-A11XV’s IEEE1394 device interface is designed based on the standards below.
1) IEEE Std. 1394a-2000, Standard for High-Performance Serial Bus
2) Audio and Music Data Transmission Protocol 2.0
3) It is compatible with IEC69958 bitstream, DVD-Audio and Super Audio CD within AM824 sequence adaptation layers within these standards.

About HDMI
“HDMI” is the abbreviation of “High Definition Multimedia Interface”. This is a digital interface standard for next generation TVs developed based on the DVI (Digital Visual Interface) used for computer displays, etc., and optimized for use in non-professional equipment. With it, non-compressed digital video and multi-channel audio signals can be transferred with a single connector, eliminating the need to use separate cables for the picture and sound and making it possible to make connectors smaller. HDMI is also compatible with HDCP (High-bandwidth Digital Contents Protection), a technology for protecting copyrights that encrypts digital video signals in the same way as with DVI.

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

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## Relationship between the video input signal and monitor output according to the VIDEO CONVERT MODE settings

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<th>VIDEO CONVERT Mode</th>
<th>Input signals</th>
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480p ~ 720p - 480p/576p/1080i/1080p

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### Additional Information

#### VIDEO CONVERT Mode

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**COMPONENT**

- **S-VIDEO**: Video signals are output when the analog to HDMI convert function is set to “OFF”.
- **VIDEO**: Video signals are output when the analog to HDMI convert function is set to “OFF”.

### Video Signals

- **S-VIDEO**: Video signals are output when the analog to HDMI convert function is set to “OFF”.
- **VIDEO**: Video signals are output when the analog to HDMI convert function is set to “OFF”.

### Notes

- The MAIN ZONE video conversion function is compatible with the following formats: NTSC, PAL, SECAM, NTSC4.43, PAL-A, PAL-M and PAL-60.
- When SECAM signals of video input are up-converted, the signals are output in PAL format from the S-video connector.
- Signals up-converted to HDMI are output to the HDMI monitor with the resolution at which they are input. Note that resolutions of 1080p are not handled.

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<th>SURROUND L/R</th>
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<th>ROOM SIZE</th>
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### Signals and adjustability in the different modes
- **Signal / Adjustable**: Value is adjustable.
- **No signal / Not adjustable**: Value is fixed.
- **On or off by speaker configuration setting**: Value is switched on or off.
- **Able**: Value is currently adjustable.
- **Unable**: Value is fixed.

### Parameter settings
- **NOTE1**: BASS +6 dB, TREBLE 0 dB
- **NOTE2**: BASS +6 dB, TREBLE +4 dB
- **NOTE3**: The parameter is available when the "MODE" is set to "CINEMA".
- **NOTE4**: The parameter is available when the "MODE" is set to "CINEMA" or "PL".
### Surround Mode

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<th>DELAY TIME</th>
<th>SUBWOOFER ON/OFF</th>
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<th>NEO 6 MUSIC MODE only</th>
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- **Signal / Adjustable**: o
- **No signal / Not adjustable**: x
- **Turned on or off by speaker configuration setting**: •

The table shows the signals and adjustability in different modes.
### Differences in surround mode names depending on the input signals

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**Note:**
- *1* Additional Information
- *2* Additional Information
### Additional Information

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<th>ANALOG</th>
<th>LINEAR</th>
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<th>DTS ES ××× (W × Flag)</th>
<th>DTS ××× (5.1ch)</th>
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<th>DOLBY DIGITAL</th>
<th>DTS-HD</th>
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<th>DVD-AUDIO (Dual)</th>
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#### Additional Information

- **Note:**
  - 1: Mode selectable in initial status
  - 2: Mode fixed when AFDM is ON
  - 3: Selectable mode
  - 4: Non-selectable mode

### Additional Information

**Note:**

1. This mode is not available when the Surround Back speaker setup is set to “None”.
2. This mode is not available when the Surround Back speaker setup is set to “1spkr” or “None”.
3. If the Surround Back speaker setup is set to “None”, then “SCH STEREO” is displayed.
4. For input signals other than 2-channel signals, this mode cannot be selected when surround back speaker is set to “1spkr” or “None”.

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**75 ENGLISH**
## Specifications

### Audio section

- **Power amplifier**
  - **Rated output:**
    - Front: 140 W + 140 W (8 Ω, 20 Hz – 20 kHz with 0.05% T.H.D.)
    - 195 W + 195 W (6 Ω, 1 kHz with 0.7% T.H.D.)
    - Center: 140 W (8 Ω, 20 Hz – 20 kHz with 0.05% T.H.D.)
    - 195 W (6 Ω, 1 kHz with 0.7% T.H.D.)
    - Surround (A, B): 140 W + 140 W (8 Ω, 20 Hz – 20 kHz with 0.05% T.H.D.)
    - 195 W + 195 W (6 Ω, 1 kHz with 0.7% T.H.D.)
    - Surround Back: 140 W + 140 W (8 Ω, 20 Hz – 20 kHz with 0.05% T.H.D.)
    - 195 W + 195 W (6 Ω, 1 kHz with 0.7% T.H.D.)
- **Dynamic power:**
  - 180 W x 2 ch (8 Ω)
  - 280 W x 2 ch (4 Ω)
- **Output terminals:**
  - Front, Center, Surr. Back: 6 ~ 16 Ω
  - Surround: A or B: 6 ~ 16 Ω
  - A + B: 8 ~ 16 Ω
- **Analog**
  - **Input sensitivity / input impedance:** 200 mV / 47 kΩ
  - **Frequency response:** 10 Hz – 100 kHz: +0, –3 dB (DIRECT mode)
  - **Distortion:** 0.005% (20 Hz – 20 kHz) (DIRECT mode)
  - **Rated output:** 1.2 V
- **Digital**
  - **D/A output:**
    - Rated output: — 2 V (at 0 dB playback)
    - Total harmonic distortion: — 0.005% (1 kHz, at 0 dB)
    - Dynamic range: — 108 dB
- **Phono equalizer (PHONO input — REC OUT)**
  - **Input sensitivity:** 2.5 mV
  - **R0A deviation:** ±1 dB (20 Hz to 20 kHz)
  - **S/N:** 74 dB (A weighting, with 5 mV input)
  - **Rated output / Maximum output:** 150 mV / 8 V
  - **Distortion factor:** 0.003% (1 kHz, 3 V)

### Video section

- **Standard video terminals**
  - Input / output level and impedance: 1 Vp-p, 75 Ω
  - Frequency response: 5 Hz – 10 kHz — +0, –3 dB
- **S-video terminals**
  - Input / output level and impedance: Y (brightness) signal — 1 Vp-p, 75 Ω
  - C (color) signal — 0.286 Vp-p, 75 Ω
  - Frequency response: 5 Hz – 10 MHz — +0, –3 dB

### General

- **Power supply:** AC 230 V, 50 Hz
- **Power consumption:** 610 W
- **Maximum external dimensions:** 434 (W) x 178 (H) x 500 (D) mm (17-3/32" x 7-0" x 19-11/16")
- **Mass:** 23.6 kg (52 lbs)

### Remote control unit (RC-995)

- **Batteries:** R03/AAA Type (four batteries)
- **External dimensions:** 72 (W) x 238 (H) x 25.5 (D) mm (2-53/64" x 9-3/8" x 1-0")
- **Mass:** 225 g (Approx. 8 oz) (including batteries)

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