



RX-A8A, RX-A6A
Additional Information:
AURO-3D®

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About AURO-3D®

Overview of AURO-3D

This unit supports AURO-3D, an immersive 3D surround audio format that enables natural sound reproduction using conventional audio channels. AURO-3D provides an immersive and natural “vertical sound field” through its unique speaker-placement structure that surrounds listeners. To get the most from your AURO-3D speakers, please follow the instructions in this manual for speaker installation and setup.

How to use AURO-3D

The following installation and configuration are required.

- Installing Front and Rear Presence Speakers (recommended) (p.3)
- Selecting a Surround Decoder (p.4)
- Settings of the AURO-3D decoder (p.4)

NOTE

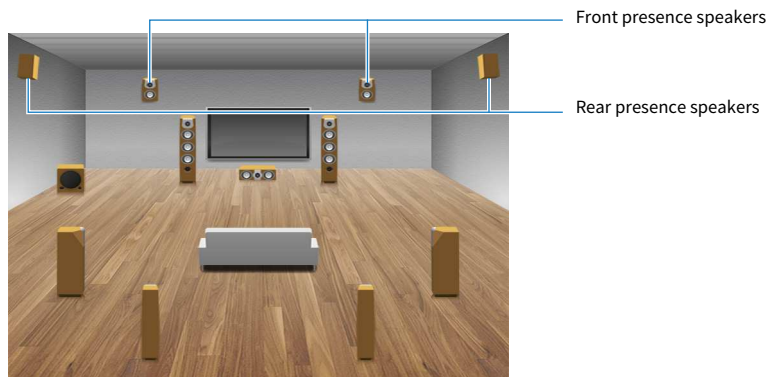
If you do not use presence speakers, you can enjoy “Auro Surround” surround sound with Auro-Matic® upmix.

Installing and Setting Up Speakers

Installing the speakers

■ When installing presence speakers

In addition to a standard 5.1-channel or 7.1-channel speaker system, install front and rear presence speakers. To get the maximum effect from AURO-3D, it is recommended to install the presence speakers on the walls in both the front and rear (according to the Auro Technologies company's recommended setup). However, AURO-3D can also be played if the speakers are installed on the ceiling or if Dolby Enabled Speakers are used. The illustration shows a 7.1-channel system with the presence speakers installed.



NOTE

- AURO-3D can also be played even if only front presence speakers are installed.
- Be sure to run YPAO whenever you have changed the speaker placement. For more information about YPAO, see the User Guide.

■ When presence speakers are not installed

In the case of a 2-channel to 7.1-channel speaker system, playback will be by Auro Surround with Auro-Matic upmix.

Follow the instructions of “Selecting a Surround Decoder” (p.4) and “AURO-3D Decoder Settings” (p.4) below.

Decoder Settings

Selecting a Surround Decoder

To play AURO-3D, you need to manually select a Surround Decoder. To select the Surround Decoder type, do the following.

1 Use the input selection keys on the remote control to select the desired input.

For example, HDMI 1 with a BD player connected.

2 Press the SUR. DECODE key on the remote control to select “AURO-3D”.

NOTE

If “Auto” is selected in the Surround Decoder settings, AURO-3D playback will not be performed. Be sure to select “AURO-3D”.

AURO-3D Decoder Settings

Use the “Setup” menu to configure each setting for the AURO-3D decoder.

■ AURO-3D Listening Mode

This is the operation mode of the AURO-3D decoder. Set the mode to suit your purpose.

“Setup” menu

“Sound” > “Surround Decoder” > “AURO-3D” > “AURO-3D Listening Mode”

Setting value

AURO-3D	This mode is optimal for playback of discs recorded in AURO-3D. On these discs, all channels, including the height channel, are recorded independently, giving you a richly realistic 3D surround sound experience. Other mono, stereo, and surround content can be upmixed to natural 3D surround with Auro-Matic.
Surround	This mode is optimal for playback of discs recorded in AURO-3D if you are not using presence speakers. Other mono, stereo, and surround content can be upmixed to natural 3D surround with Auro-Matic.
Native	The input AURO-3D signal is played back with the channels the same as they are recorded. Channel expansion by upmixing is not performed.

NOTE

If front presence speakers and rear presence speakers are not installed, playback will be performed by Auro Surround even if “AURO-3D” is selected.

■ Auro-Matic Preset

Presets for the Auro-Matic upmix function are tuned for effective AURO-3D playback according to your content. Choose the one that best suits the content you want to play.

“Setup” menu

“Sound” > “Surround Decoder” > “AURO-3D” > “Auro-Matic Preset”

Setting value

Small	This preset is ideal for pop music and chamber music.
Medium	This preset is ideal for jazz music, general movies, and TV programs. (Default)
Large	This preset is ideal for content recorded in a large space, such as an orchestra.
Movie	This preset is ideal for movie content such as action movies with scenes of loud explosions.
Speech	This preset is ideal for news broadcasts, talk shows, and other content that is mostly dialogue and has no spatial information.

■ Auro-Matic Strength

This sets the level of upmixing for the original input signal.

“Setup” menu

“Sound” > “Surround Decoder” > “AURO-3D” > “Auro-Matic Strength”

Setting value

0 (no upmix) to 15 (maximum effect) (default: 12)

Using AURO-3D

Playback of content

Play AURO-3D compatible Blu-ray discs on an HDMI-connected BD player.

“AURO-3D” is recommended as the “AURO-3D Listening Mode” setting.

Supplemental Information

- CINEMA DSP cannot be used at the same time when playing AURO-3D.
- Please also refer to the user guide for each model for information on speaker installation and menu operation.
 - RX-A8A <https://manual.yamaha.com/av/20/rxa8a/>
 - RX-A6A <https://manual.yamaha.com/av/20/rxa6a/>

Appendix

When a problem occurs

- I can't feel the effect of AURO-3D.
 - Please check if "AURO-3D" is selected in Surround Decoder. If "Auto" is selected, AURO-3D playback will not be performed.
- I want to check if the AURO-3D signal is being correctly input to this unit.
 - You can check the information of the input audio in "Sound" > "Information" in the "Setup" menu.



- The AURO-3D signal is not being input to this unit.
 - The AURO-3D signal is output from the BD player via HDMI. Be sure to connect the BD player with an HDMI cable.
 - Please check if your Blu-ray disc is AURO-3D compatible.
 - Please make sure that you have selected AURO-3D compatible audio in the audio settings of the Blu-ray disc.

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AUDIO

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