

IMMERSE YOURSELF IN 3D-SOUND

Auro-3D[®] is the next generation three-dimensional audio standard. It provides a realistic sound experience unlike anything before. By fully immersing the listener in a cocoon of life-like sound, Auro-3D[®] creates the sensation of actually 'being there'. Thanks to a unique 'Height' channel configuration, recorded acoustic reflections are reproduced by these speakers and are naturally due to the fact that sounds originate from around as well as above the listener.

AURO-3D AND DENON FAQs

How does Auro-3D work?

By fully immersing the listener in a cocoon of life-like sound, Auro-3D[®] creates the sensation of actually 'being there'. Thanks to a unique configuration of 'Height channels', recorded acoustic reflections are reproduced by these speakers and are heard naturally due to the fact that sounds originate from around as well as above the listener. Either 1 or 2 additional layers (HEIGHT and TOP – a.k.a. "Voice of God" channel) with speakers are mounted above the existing Surround layer to produce Auro-3D[®]'s defining 'vertical Stereo field'.

How can I get Auro-3D content?

The height information, captured in recording or created during the mixing process, is mixed into a standard 5.1 PCM stream that comes with a regular Blu-ray. Major Hollywood studios and musicians are partnering with Auro to create native Auro-3D content on Blu-ray Discs. Moreover, the Auro-3D Engine combines different technologies to guarantee an optimum 3D sound experience generated both natively and from existing audio content.

What home setup do I need to experience Auro-3D?

To experience the immersive sound of Auro-3D, you need to have a home theatre setup with a Blu-ray player, at least an Auro 9.1ch speaker set, and an Auro-capable AV Receiver. Denon is the first to offer a unique feature upgrade for its top-class AV Receivers. Once upgraded with the Auro-Codec[®] Decoder, the Denon AVR-X7200W and AVR-X5200W are capable of decoding the original Auro-3D mix and playing back an Auro 10.1 channel configuration (including "Voice of God" channel). The AVR-X4100W can process an Auro 9.1 channel configuration for full height layer capability.

Does Auro-3D work with existing non-Auro audio content?

Yes. Whatever the resolution of audio input, the Auro-3D[®] Engine will create a full 3D experience thanks to Auro-Matic[®]. This groundbreaking up-mixing algorithm converts legacy content into the Auro-3D[®] format. It recognizes existing Mono, Stereo or 5.1/7.1 Surround signals and transforms them into 3D audio firing up all Auro height speakers. Regardless of original format, you can always experience the stunning effect of sound in 3D. Playing Dolby Atmos decoded content, the height information will be reproduced by the Auro Front height speakers.

Visit <http://upgrade.denon.eu> for upgrade information.

AURO-3D CAPABLE DENON PRODUCTS



AVR-X7200W

- 210W x 9ch (6 ohms, 1%, 1ch driven)
- Symmetrical monolithic amplifier design with Denon custom made transistors
- Built in WiFi with dual antenna, built in Bluetooth
- Latest HDMI standard with 4K Ultra HD
- Auro-3D upgrade-ready (Auro 10.1, Auro 9.1)
- Dolby Atmos
- Audyssey DSX; dts Neo:X 11.1ch processing
- Spotify Connect
- Advanced ECO mode with off/on/auto setting
- 11.2ch processing and 13.2ch pre-out

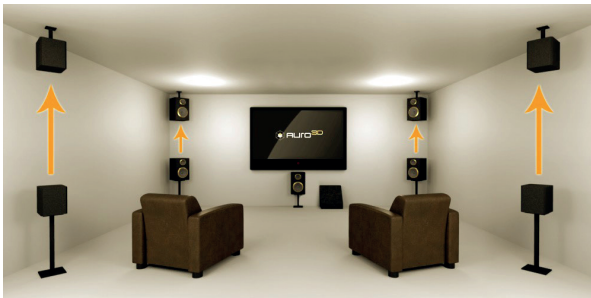
AVR-X5200W

- 205W x 9ch (6 ohms, 1%, 1ch driven)
- Monolithic amplifier design with Denon custom made transistors
- Built in WiFi with dual antenna, built in Bluetooth
- Latest HDMI standard with 4K Ultra HD
- Auro-3D upgrade-ready (Auro 10.1, Auro 9.1)
- Dolby Atmos
- Audyssey DSX; dts Neo:X 11.1ch processing
- Spotify Connect
- Advanced ECO mode with off/on/auto setting
- 11.2ch processing and 13.2ch pre-out

AVR-X4100W

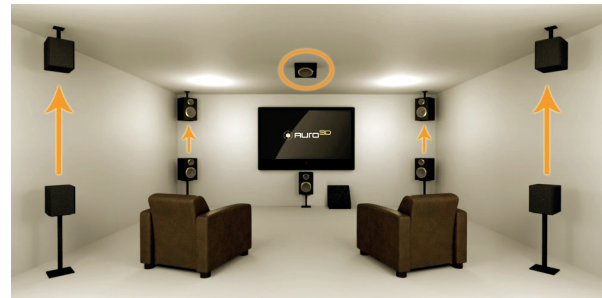
- 200W x 7ch (6 ohms, 1%, 1ch driven)
- High quality discrete power amplifier for powerful and detailed sound
- Built in WiFi with dual antenna, built in Bluetooth
- Latest HDMI standard with 4K Ultra HD
- Auro-3D upgrade-ready (Auro 9.1)
- Dolby Atmos
- Audyssey DSX; dts Neo:X 9.1ch processing
- Spotify Connect
- Advanced ECO mode with off/on/auto setting
- 9.2ch processing and 13.2ch pre-out

POSSIBLE AURO-3D SPEAKER SETUPS



Auro 9.1 configuration

Auro-3D uses the standard horizontal speaker array as its base, then we add a Height layer directly above those corner speakers at 30 degrees, just as we do in the cinema. As long as you have space directly above the speakers in your Surround sound setup you can easily install an Auro-3D Height layer.



Auro 10.1 configuration

There is no need to make holes in your ceiling for extra speakers, although for larger home cinemas, you can install a 3rd layer by adding the top layer (Voice of God channel) straight above the listening position. The Voice of God channel is not crucial for music reproduction but adds great effects in films and gaming i.e. the fly-over effect of a helicopter.

DENON AURO-3D SPEAKER SETUPS

AV RECEIVER		SPECIFICATIONS		AURO-3D SPEAKER CONFIGURATION OPTION	
Model	Auro-3D Upgradable	Internal Power Amplifier	AV Receiver Channels	9.1	10.1 (including "Voice of God")
AVR-X4100W	√	7ch	9.2	√*	–
AVR-X5200W	√	9ch	11.2	√	√*
AVR-X7200W	√	9ch	11.2	√	√*

* with additional power amplifier