

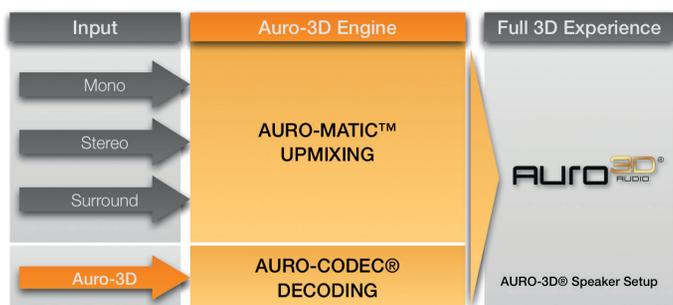
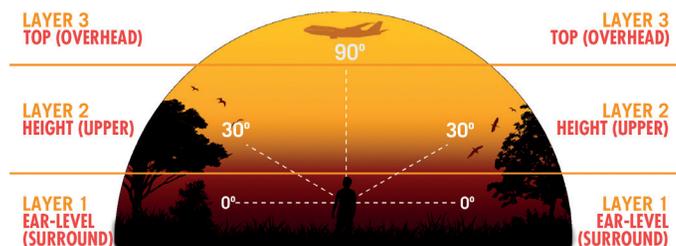


# marantz®

## AURO 3D AUDIO

### 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 heard naturally due to the fact that sounds originate from around as well as above the listener.



### AURO-3D® AND MARANTZ 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 theater setup with a Blu-ray player, at least an Auro 9.1ch speaker set, and an Auro-capable A/V Receiver. Marantz is the first to offer a unique feature upgrade for its top-class A/V Receivers. Once upgraded with the Auro®-Codec Decoder, the Marantz SR7009 and AV7702 are capable of decoding the original Auro-3D® mix and playing back an Auro 10.1 channel configuration (including "Voice of God" channel).

#### 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.Marantz.com> for upgrade information.

# because music matters



# marantz®

## AURO-3D® Capable Marantz Products



**SR7009**

- 9ch Network A/V Receiver with 125W per channel (8 ohm, 20 Hz - 20 kHz, 0.05% THD)



**AV7702**

- Network A/V Preamplifier with 13.2ch pre-out (11.2ch XLR, 13.2ch RCA)

### Common Features:

Wi-Fi® and Bluetooth® built in · Dolby Atmos · Dolby TrueHD and DTS HD Master Audio · 11.2ch signal processing and 13.2 Pre-out (with 2 independent subwoofers) · Current Feedback circuitry with Marantz New HDAM · Audyssey MultEQ XT32 (Pro ready), LFC, Sub EQ HT, Audyssey DSX · dts-Neo:X (11.1ch) · Latest HDMI version with 4k 60Hz 4:4:4 resolution · 7+1 HDMI in / 3 out (4k 60Hz, 4:4:4, 3D, ARC, Deep Color) · HDMI scaling 1080p, 4k 50/60Hz · HD Audio streaming: FLAC 192/24, DSD, ALAC · Spotify Connect®, Pandora®, SiriusXM™ (where available) · Flickr, Internet Radio support · Big trapdoor design; Aluminum front panel · Marantz Remote App for iOS and Android™ devices · ECO mode

## 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 theater. 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 theaters, 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.

## Marantz AURO-3D® Speaker Setups

A/V RECEIVER		SPECIFICATIONS		AURO-3D® SPEAKER CONFIGURATION OPTION	
Model	Auro-3D® upgradeable	Internal Power Amplifier	A/V Receiver Channels	9.1	10.1 (including "Voice of God")
SR7009	√	9ch	11.2	√	√*
AV7702	√	-	11.2	√*	√*

\*with external power amplifier