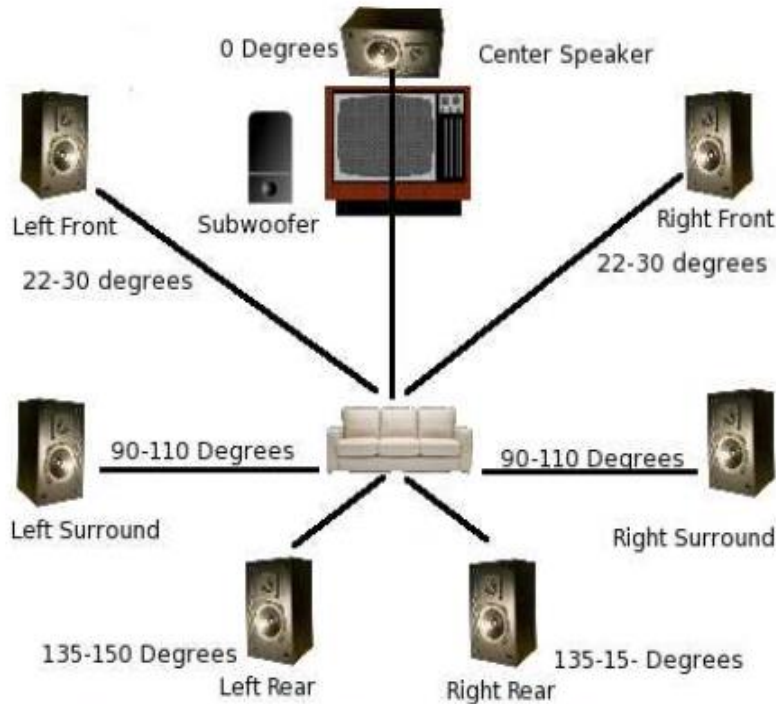


## 7.1 SDDS Surround mixing



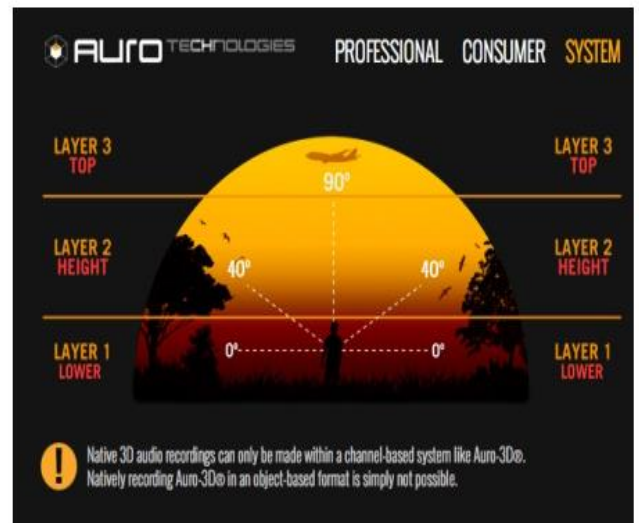
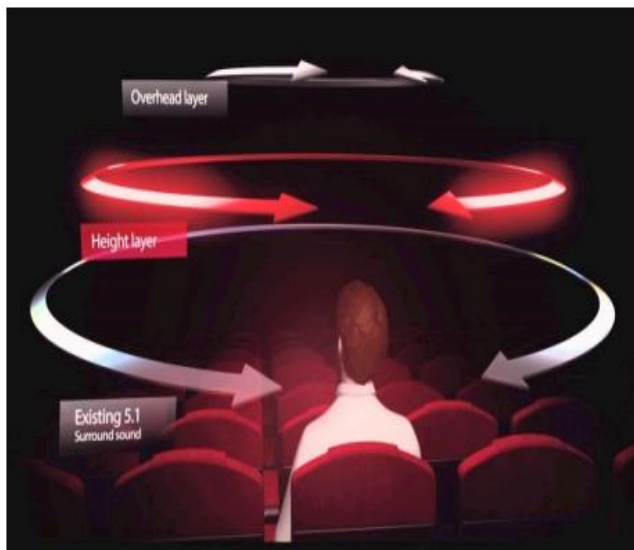
### 7.1 Channel Surround System

Multiple sound tracks has been mixed as 8 Single tracks (SDDS 7.1)

- ▶ 1.Left
- ▶ 2.Right
- ▶ 3.Centre
- ▶ 4.Left surround
- ▶ 5.Right surround
- ▶ 6.left rear surround
- ▶ 7.Right rear surround
- ▶ .1Sub woofer (low frequency)

## Introduction to Auro-3D Immersive sound system

**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, acoustic reflections are generated and heard naturally due to the fact that sounds originate from around as well as above the listener.

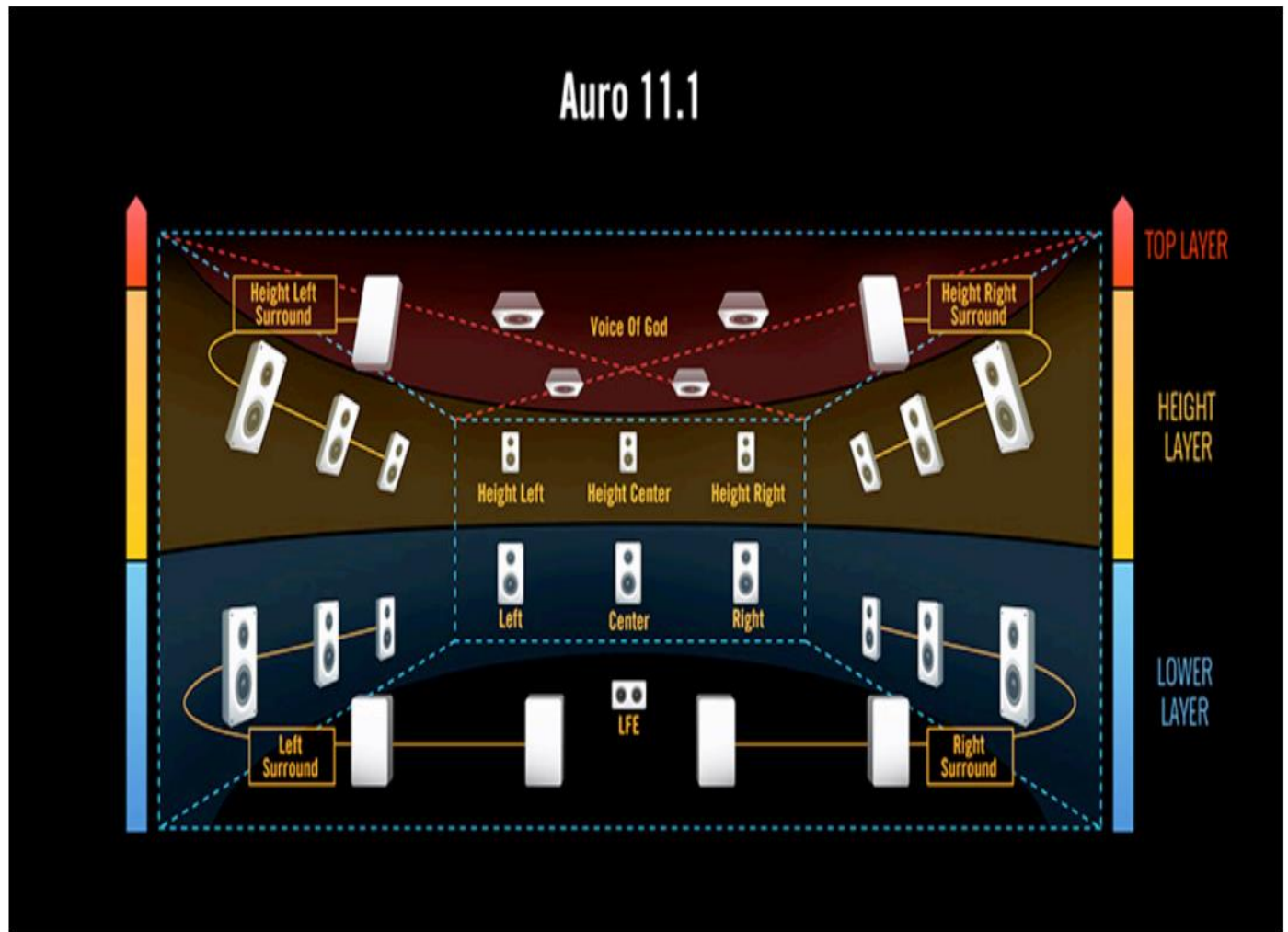


To achieve ‘true sound in 3D’, Auro-3D adds the crucial third and final dimension in the evolution of sound reproduction. While 5.1/7.1 Surround configurations fail to include height channels (z- axis), Auro-3D’s creates its outstanding effect with a HEIGHT-based sound hemisphere capable of thoroughly immersing the listener. Depending on the size of the room, either 1 or 2 additional layers (HEIGHT and TOP) are mounted above the existing Surround layer at ear-level to produce Auro-3D’s defining ‘vertical stereo field’ (see image). This field is the key to creating the most natural and immersive sound experience possible. The optional (third) TOP Layer placed overhead is a supplementary effect channel that is not critical for natural audio reproduction. As people are less sensitive to sounds originating from above, the TOP Layer is primarily used for ‘fly-overs’ and other special effects – most sound sources and their chief initial reflections are located between the Surround Layer and Auro-3D’s unique Height Layer.

### 11.1: Four height channels + Height Center + Top Channel

The Auro-3D 13.1 format is based on, and compatible with the 6.1 Standard. It includes 6.1's standard channels plus the following additional channels.

#### Channel-based vs. Object-based sound mixing:



Auro-3D can reproduce immersive 3D audio for both films and music because Auro-3D is as well a native true 3D recording format. Auro Technologies is working closely with the industry to release music titles in Auro-3D. For this purpose it has developed a range of professional audio tools which are made available for Auro-3D production. Several labels will announce the release of Auro-3D content very soon, including classical, jazz, pop rock, as well as popular music genres.