

Auro-3D® Authoring Tools™: Product Overview

The Auro-3D® Authoring Tools are your number one choice for the creation of native 3D audio content. Each plug-in is designed to be easily integrated into any existing content-creation workflow, while solving many technical limitations present in DAW stations. All tools allow the creative to work within the uncompressed audio domain, and multiple masters can be mixed at the same time. This makes Auro-3D® Authoring Tools™ the most flexible and most efficient solution on the market.

Main Features

- ✓ **Auro-Panner™ plug-in:**
The Auro-Panner™ enables 3D panning, replacing the DAW's panner when working in Auro-3D®. The panned information is sent to the Auro-Bus plug-in.
- ✓ **Auro-Bus plug-in:**
The Auro-Bus collects panned information from a number of Auro-Panners to form a subgroup or stem. All connected Auro-Panners can be summed, leveled, and their downfold settings can be adjusted in case a planar target configuration is required.
- ✓ **Auro-Mixing Engine plug-in:**
The Auro-Mixing Engine sets the target Auro-3D® configuration and controls how all connected Auro-Buses are mixed. It displays the level of all channels in the Auro-3D® field, and outputs a downmix to the DAW track on which it is inserted, and a mix and downmix to the connected Auro-Return plug-ins.
- ✓ **Auro-DMix Control plug-in:**
The Auro-DMix Control lets the mixing engineer dynamically downmix all channels in an Auro-3D® configuration to the (Auro-Encoded) Surround format.
- ✓ **Auro-Return plug-in:**
The Auro-Return delivers the channels from the Auro-Mixing Engine to the DAW. The Height and Lower layers are typically delivered to two separate multichannel tracks, each with its own Auro-Return instance. The Auro-Return plug-in also allows monitoring/printing of downmix and stems.
- ✓ **Auro-Encoder:**
The Auro-Encoder controls are embedded in the Encoder tab of the Auro-Mixing Engine plug-in. The Auro-Codec® encodes multiple PCM channels to create a PCM-downmix that can be decoded by the Auro-Codec® Decoder. There is no signal, degradation nor loss of audio quality. Digital Cinema encoded formats comply with DCI specifications.
- ✓ **A3DHost:**
A3DHost runs as a background process and forms the core of the Auro-3D® Ecosystem to which all plug-ins are connected. The A3DHost architecture has made it possible to surmount the industry's eight-channel track limitation, allowing to create the more sophisticated Auro-3D® formats.
- ✓ **Auro-Settings:**
The Auro-Settings application (accessible through the Mac menu bar and the Windows system tray) enables the user to specify the Solo behavior for Auro plug-ins and the software architecture of the DAW used for the Auro-3D® Authoring Tools™.

Main supported configurations:

- ✓ Auro 13.1b (7+5+1)
- ✓ Auro 11.1 (7+4)
- ✓ Auro 11.1
- ✓ Auro 10.1
- ✓ Auro 9.1
- ✓ Auro 8.0
- ✓ Auro 2-2-2
- ✓ 7.1 Surround
- ✓ 7.0 Surround
- ✓ 6.1 Surround
- ✓ 6.0 Surround
- ✓ 5.1 Surround
- ✓ 5.0 Surround
- ✓ Quad
- ✓ LCRS
- ✓ LCR

Main supported encoding profiles:

- ✓ BD Movie – Master Quality - 25 fps
- ✓ BD Movie – Master Quality 30 (29.97) fps
- ✓ BD Music – Master Quality
- ✓ Digital Cinema – Master Quality – 24 / 48 / 72 fps
- ✓ Digital Cinema – Master Quality – 60 fps

Technical characteristics

Supported operating systems:

- ✓ Mac OS X 10.7, 10.8, 10.9

Supported Digital Audio Workstations:

- ✓ Avid Pro Tools 10
- ✓ Avid Pro Tools 11

Supported formats:

- ✓ AAX Native

Licensing:

- ✓ **Auro-Panner™** – Includes all DAW channel-based panning and mixing functionality.
- ✓ **Auro-Codec®** – Extends the Auro-Panner™ license with the following additional functionality: The channel-based output is encoded with the Auro-Codec® using Home Entertainment encoding profiles.
- ✓ **AuroMAX®** – Extends the Auro-Codec® license with the following additional functionality: The channel-based output is encoded with the Auro-Codec® using Digital Cinema encoding profiles.