



## **Ambisonics in Nuendo (8.2 and above)**

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This document shows how to setup 3rd-order Ambisonics (TOA) in Nuendo (8.2 and above). It uses Noise Makers Ambi Bundle HD (Pan, Head, Limiter, Verb) to produce and monitor Ambisonics.

Please open Nuendo, load the Noise Makers demo project (or create a new project from scratch) and follow these 5 steps to check your setup.

### 1) Create a TOA output bus

Go to *Studio/Audio Connections/Outputs/Add Bus*.

Name it *TOA Bus*.

Right-click the new *TOA Bus* and Set it as *Main Mix*.

You should now have a small speaker next to *TOA Bus* (see Fig 1).

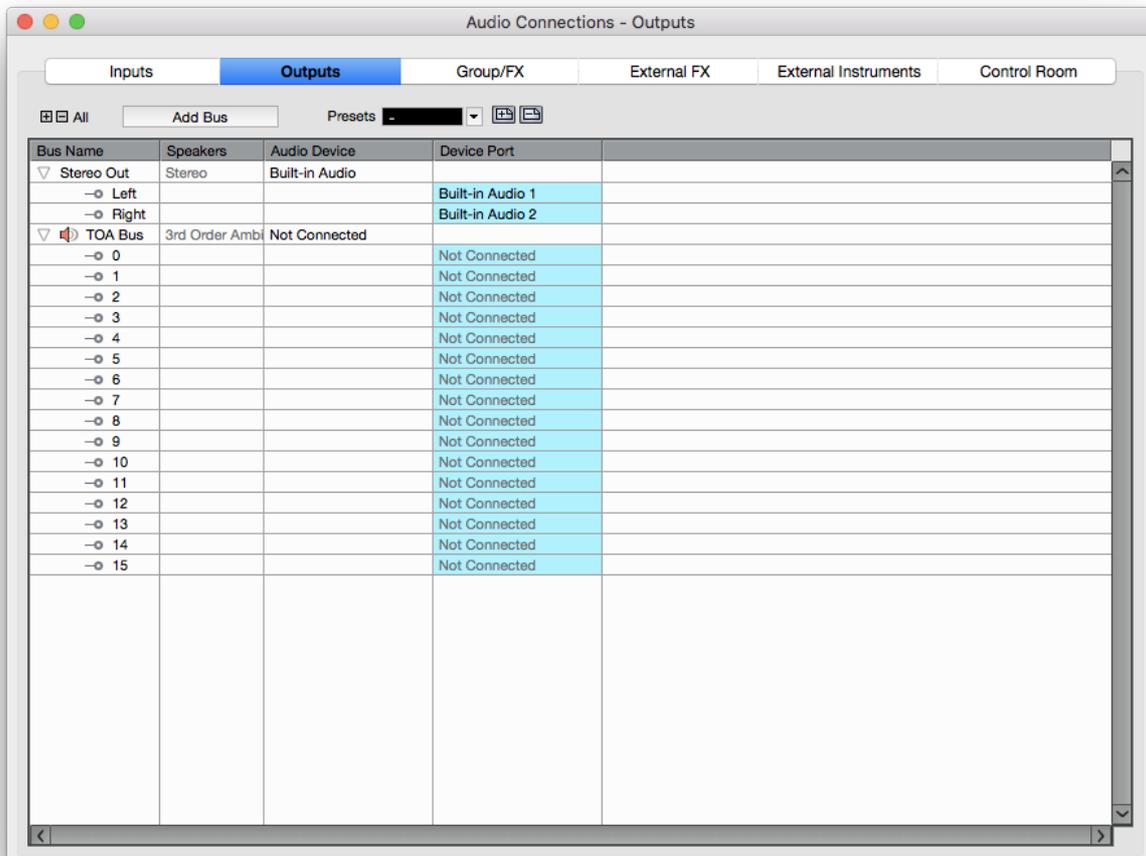


Fig 1 : Create a TOA bus

## 2) Create a new mono track

Route its output to *TOA Bus* (should be by default).

Open *Studio/MixConsole*.

Select the track, right-click the panner section, and select *AmbiPanHD* (see Fig 2).

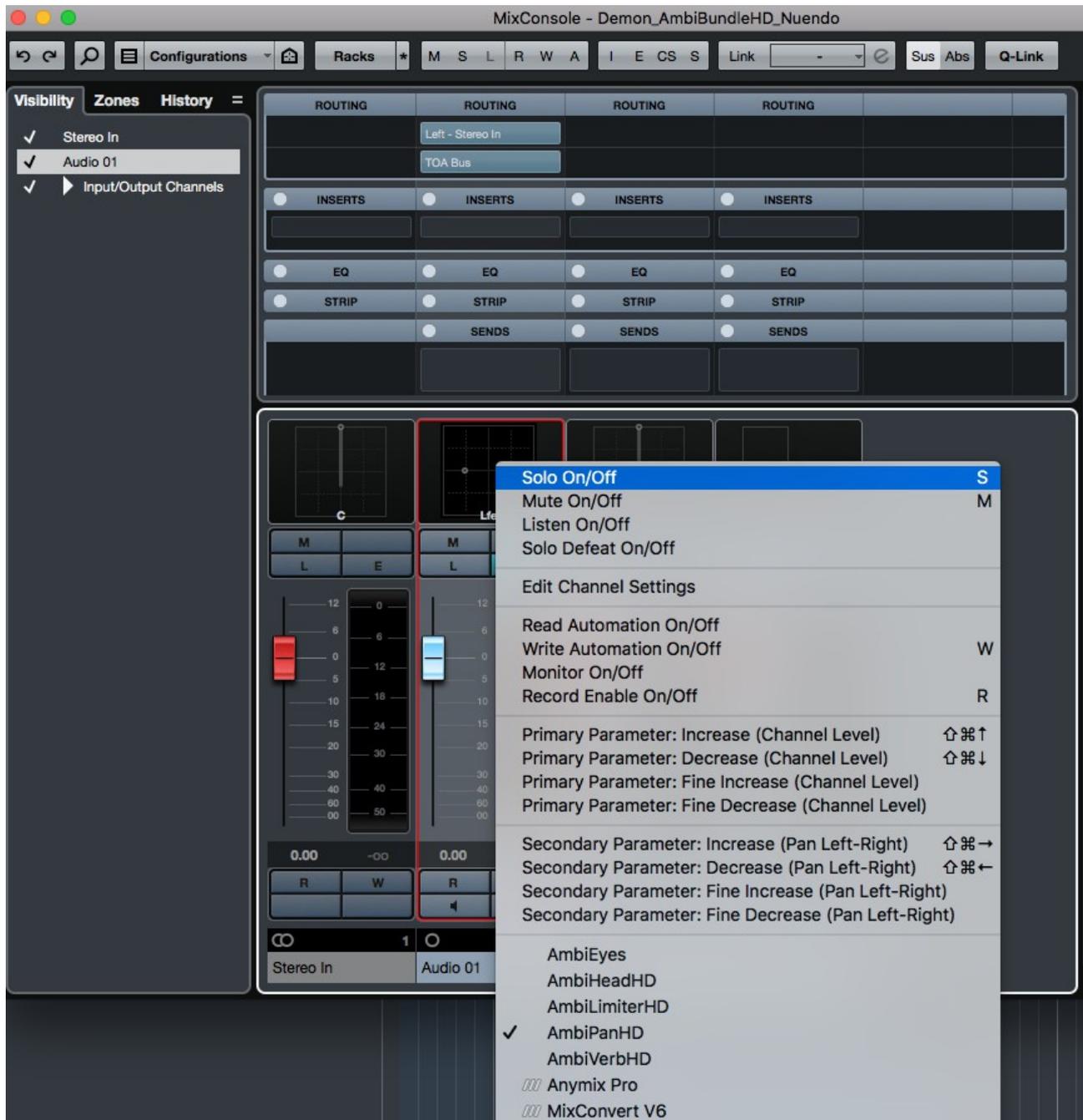


Fig 2 : Choose track panner in MixConsole

### 3) Create a TOA monitor

Go to *Studio/Audio Connections/Control Room/Add Channel*.

Name it *Monitor TOA*.

Connect the first two channels of *Monitor TOA* to your sound card (see Fig 3).

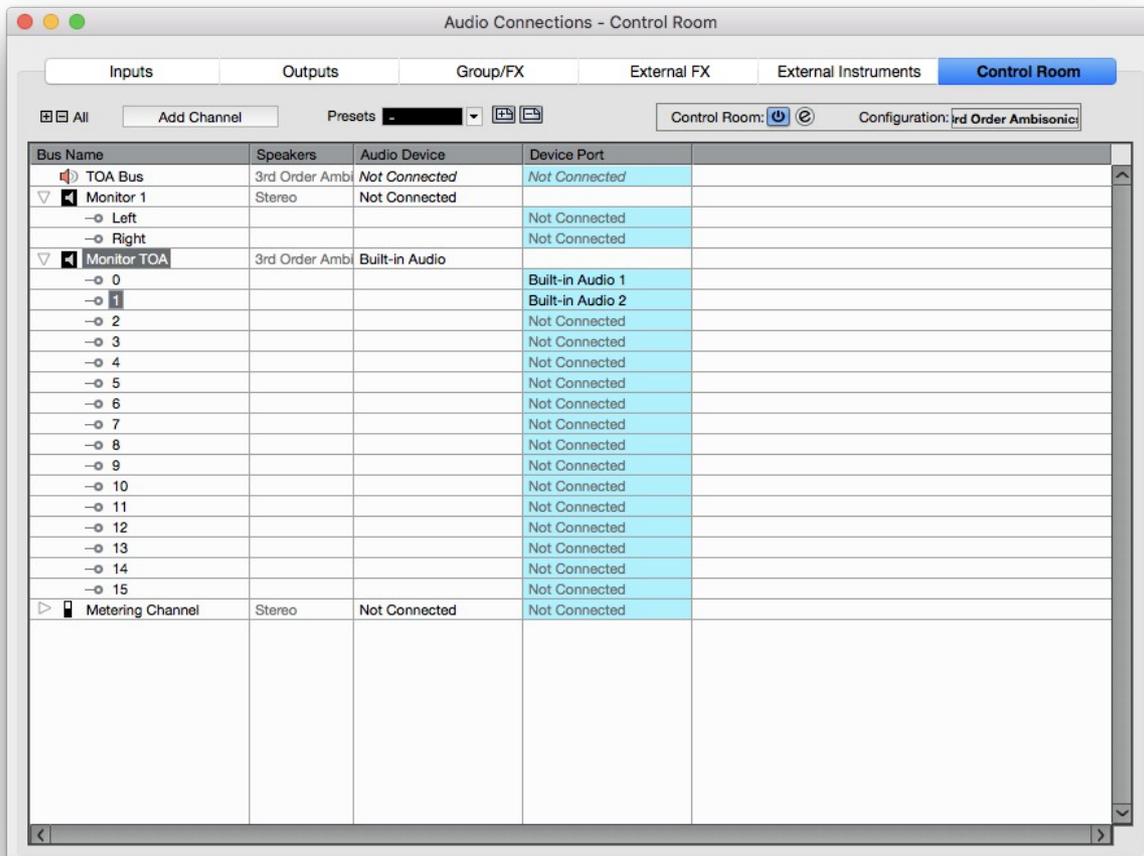


Fig 3 : Create a TOA monitor

#### 4) Setup the Control Room

Open *Studio/Control Room*.

Go to the *Main* tab and select *3rd Order Ambisonics (Downmix Presets)* and *Monitor TOA (Monitors)* (see Fig 4).

Go to the *Inserts* tab (bottom right) and select *AmbiHeadHD* (see Fig 4 bis).



Fig 4 : setup Control Room (Main tab)



Fig 4 bis : setup Control Room (Inserts tab)

## 5) Check how it sounds

Put a sound in your mono track.

Open *MixConsole*, select your track and double-click the panner section (it should open *AmbiPanHD*).

Plug your headphones and move the sound source.

If the panning is all wrong, go back to step 1.

Otherwise, insert *AmbiVerbHD* and *AmbiLimiterHD* in the *TOA Bus* and you are good to go (see Fig 5).



Fig 5 : full TOA setup

That's how to setup TOA in Nuendo 8.2 and above.

For more information, please email us at [contact@noisemakers.fr](mailto:contact@noisemakers.fr)

Noise Makers