

AUSTRIAN AUDIO

AmbiCreator3

Introduction

About AmbiCreator3

AmbiCreator3 lets you generate a full first-order Ambisonics B-format signal from two Austrian Audio OC818 microphones. As the OC818 has a dual output, AmbiCreator3 derives the omni component (W) and all three spatial axes (X, Y, Z) from the four diaphragm signals, ready to decode in your DAW.

AmbiCreator3 is not only used by engineers producing content for VR, 360° audio and immersive room recordings, but also by artists exploring first-order Ambisonics as a creative instrument. The full creative potential unfolds through the complete automation capability of all plug-in parameters.

Rotate the entire sound field horizontally to place your listener anywhere in the scene, and output in AmbiX or FuMa to suit your workflow. One compact two-microphone setup opens the door to 3D.

A first-order Ambisonics B-format signal describes the full sound field through four components: W (the omnidirectional pressure signal), X (front/back), Y (left/right) and Z (up/down). Together they encode sound arriving from any direction, ready to be rotated, decoded and rendered to any playback format.

System Requirements

macOS 10.14 or later

Windows 11, 64 bit or later

Supported plugin formats: AAX, AU, VST3

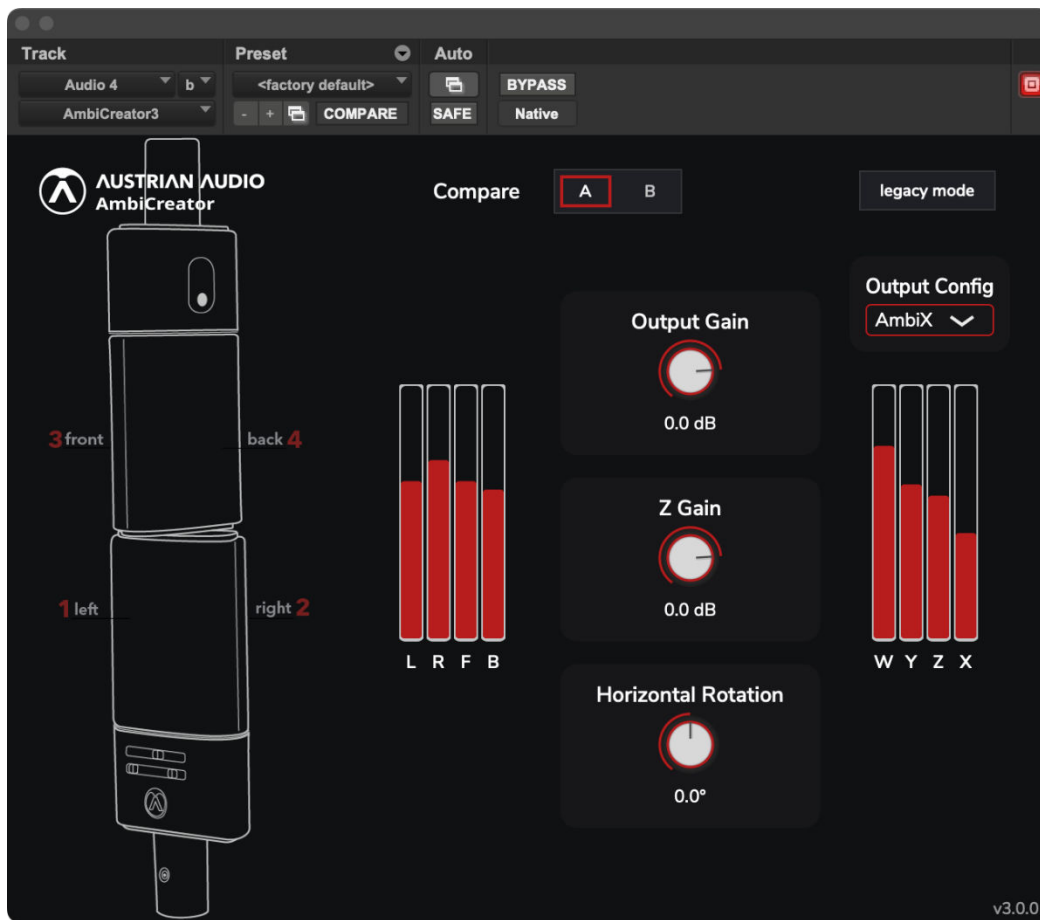
Tested on ProTools, Cubase, Logic, Reaper

Microphone Setup and Routing

Position two OC818 at 90° to each other, stacked on top of one another. The lower microphone faces to the left with its Austrian Audio logo, the upper microphone faces forward towards your desired main direction with its Austrian Audio logo. Connect the front-diaphragm signal of the lower microphone (XLR out) to input 1 of your audio interface, its rear-diaphragm (accessible via the OCC8 mini XLR cable) to input 2. Then connect the front-diaphragm signal of the upper microphone (XLR out) to input 3, its rear-diaphragm (accessible via the OCC8 mini XLR cable) to input 4.

Route the four inputs to a quad or four-channel track in your DAW and insert AmbiCreator3. It will automatically open in its quad version.

Overview



Compare

Set and compare two settings of AmbiCreator. Please note: if you use the AB function of your DAW please do not use the Compare function of AmbiCreator (and vice versa). Either use the AB of your DAW or AmbiCreator.

Compare

A B

Legacy Mode

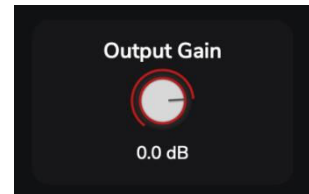
Activate **legacy mode** to use the input configuration from the original AmbiCreator plug-in. Here the lower microphone faces forward with its logo, main XLR out connected to input 1, second output to input 2. The upper microphone faces to the right with its logo, second output to input 3, main XLR out to input 4. When Legacy mode is not active, you can use the same input configuration as StereoCreator and do not need to apply any different routing if you originally set up your recording for StereoCreator, or vice versa.

Please note: We recommend using **legacy mode** only when working with older recording projects. For new recordings, leave **legacy mode** inactive and use the setup described at the beginning to stay compatible with StereoCreator.

legacy mode

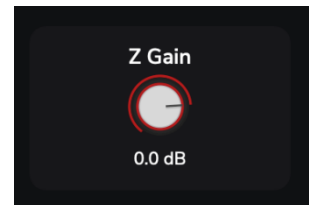
Output Gain

The **Output Gain** slider lets you adjust the overall level of the output channels.



Z Gain

The **Z Gain** slider adjusts the level of the vertical axis (Z) of the B-format signal, controlling the amount of height information in the sound field. At 0 dB the vertical axis is correctly weighted and the sound field stays undistorted. Lowering the **Z Gain** flattens the field towards a more horizontal (2D) image, raising it overemphasizes the vertical component. Since the height information results from the vertical arrangement of the two stacked capsules, we recommend leaving the **Z Gain** at 0 dB in most cases.



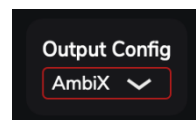
Horizontal Rotation

The **Horizontal Rotation** slider lets you rotate the entire sound field horizontally by +/- 180°. This is useful to reorient your recording or to position the listener within the scene when no head-tracking is available in your DAW. Beyond that, being able to rotate the sound field holds great creative potential, especially when automated over the course of a take.



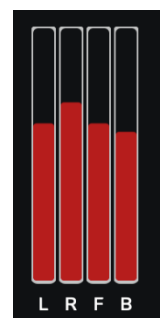
Output Config

The **Output Config** dropdown lets you choose the output format of the B-format signal. **AmbiX** and **FuMa** are available. **FuMa** is the older, legacy convention, while **AmbiX** is the more common standard today. Select the format that matches your decoder or DAW workflow.



Input Levels

Input meters are available to monitor your levels from the four OC818 diaphragms L (left), R (right) F (front) and B (back).



Output Levels

Output meters are available to monitor your W (omni), Y, (left/right), Z (up/down) X (front/back) levels.

For further questions please contact support@austrianaudio.com

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Austrian Audio GmbH
Eitnergasse 15
1230 Vienna
support@austrianaudio.com

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