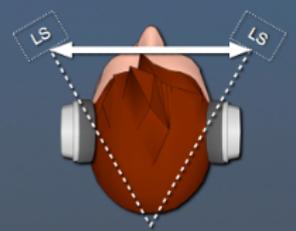


amoenus externus



Foreword

amoenus externus is a **stand-alone app** or an audio plugin (AU or VST3) for use on Apple Mac or Windows PC.

The unique algorithm generates a sound image on headphones that corresponds to that of the speakers in the stereo triangle.

This not only produces the original sound on the headphones, but also creates a pleasant and fatigue-free listening experience.

Enjoy a new quality of music playback on headphones.

System requirements

A **64-bit operating system** is required for both Mac and PC.

Installation

Read the installation instructions in full before continuing.

This applies in particular when using the stand-alone app, as the additional [VB Cable](#) software is required for operation.

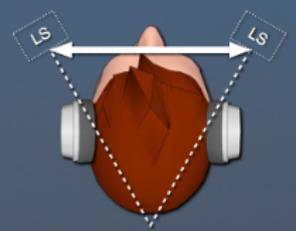
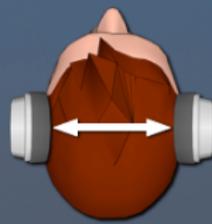
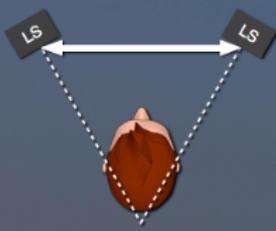
Stand-alone app

With the stand-alone app, the normal audio output of the PC is redirected via **amoenus externus**.

To do this, the additional **VB Cable** software must first be installed.

This is a **donation software** and can be paid directly to the creator if you like and use it:

<https://shop.vb-audio.com/en/>

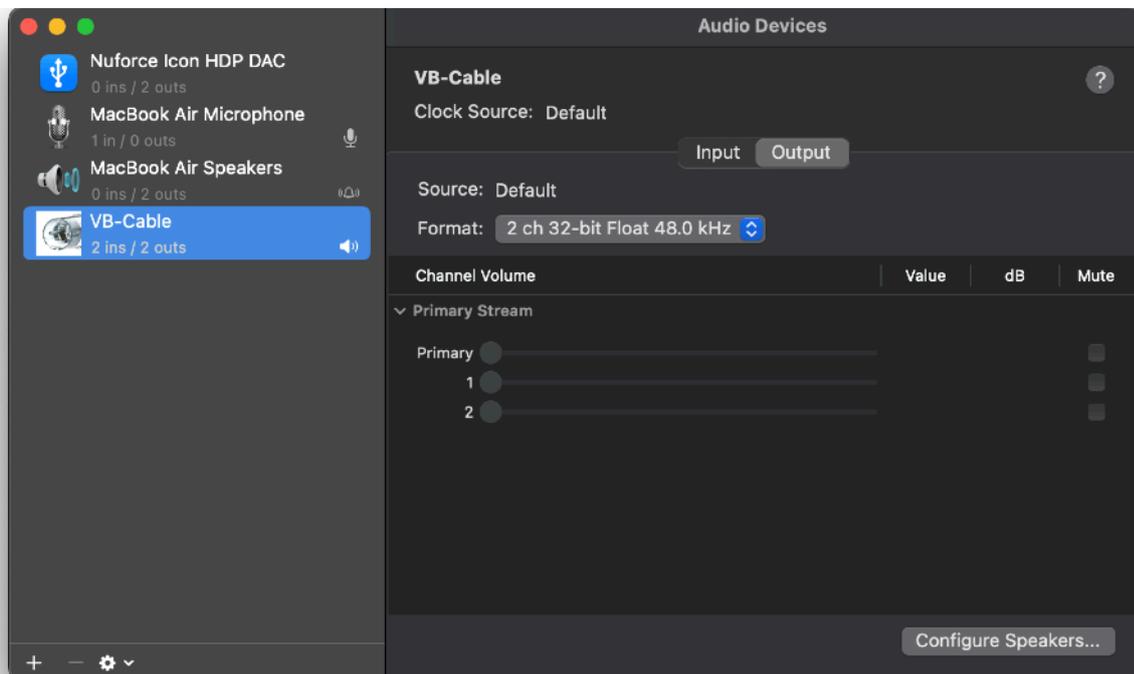


Installation Mac

Open the dmg file **VB-Cable_MACDriver_Pack** in the **VB Cable** folder and start the installation by double-clicking on **vb-cable-installer.pkg**.

After installation, the audio output of the operating system must be switched to **VB-Cable**.

Start the **Audio-MIDI-Setup** app in the **Utilities** folder and select the VB-Cable entry with the right mouse button in the pop-down menu **Use This Device For Sound Output**. The small loudspeaker appears in the **VB-Cable** field.

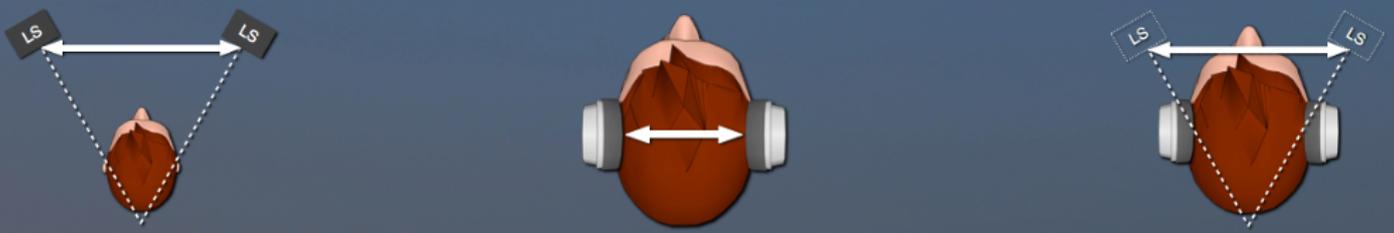


Now you can also reduce the **format** in the right-hand column to 2 channels (stereo).

If the audio signal has to be reconnected to another output (e.g. internal speakers), this must be done in this window.

If you can **directly** determine the audio output in the settings of a program (e.g. streaming app), you must select **VB-Cable**.

The **amoenus externus** app is installed by double-clicking on the **amoenus externus.pkg** icon in the Application folder using the normal installation procedure.



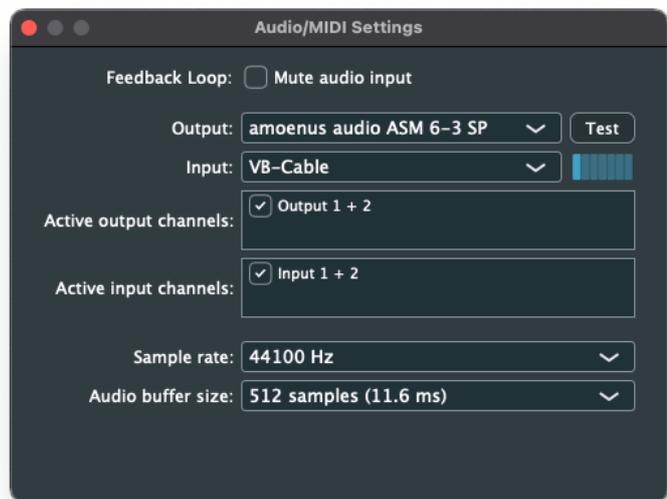
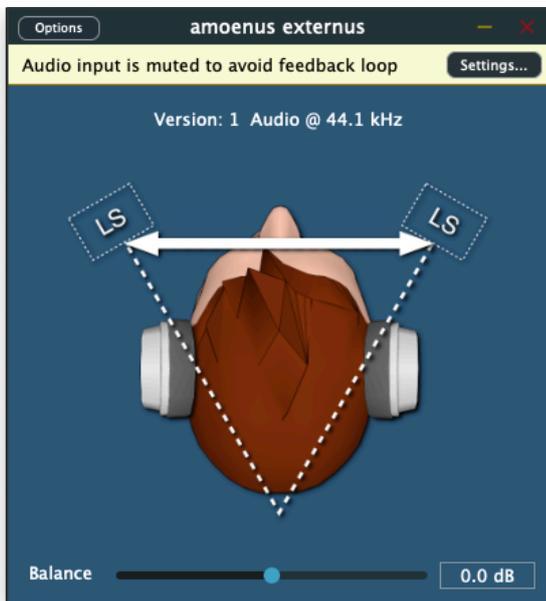
Operation amoenus externus on Mac

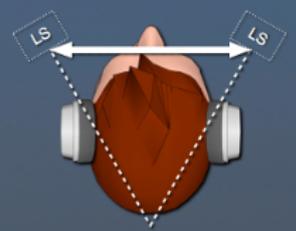
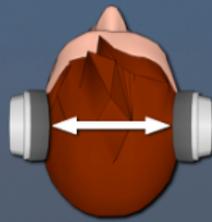
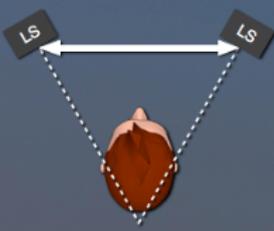
Access to the microphone must be allowed at the first start.



Also the audio path is interrupted for safety reasons.

Press the **Settings** button to open the **Audio Settings...** window.





Make the following adjustments:

Feedback Loop: switch off

Output: select output to headphones, amplifier or DAC

Input: VB-Cable

Active output / input channels must be switched on

Sample rate: does not need to be set (adjusts automatically)

Audio buffer size: an increased value can be set in the event of interference during playback

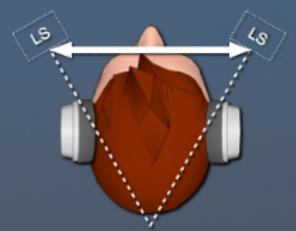
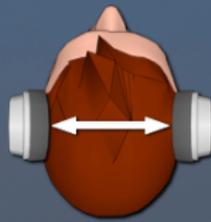
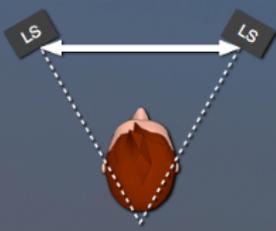
Test: a click trigger a short control tone at the output

Indicator bar: indicates when there is an audio signal at the input

Now you can start any program with an audio output and enjoy the pleasant sound of **amoenus externus** on your headphones.

Switching between **unprocessed** and **amoenus externus** is done with a click in the program window.

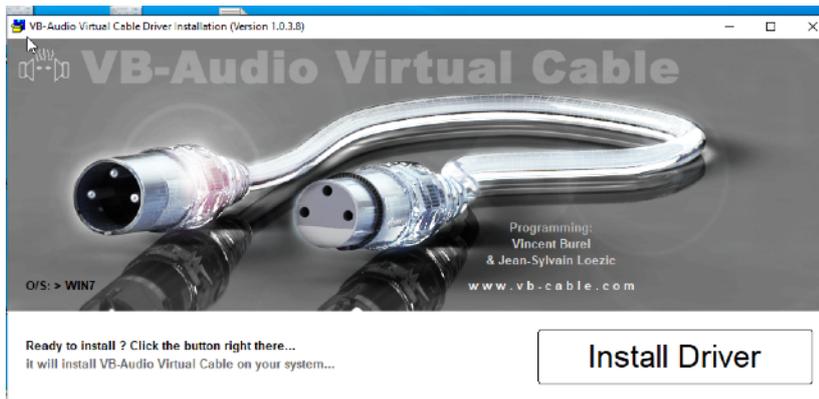
The **Balance control** is used to equalize the audio level if the sensitivity of the ears differs (the setting is not saved).



Installation PC

Open the folder **VBCABLE_Driver_Pack**.

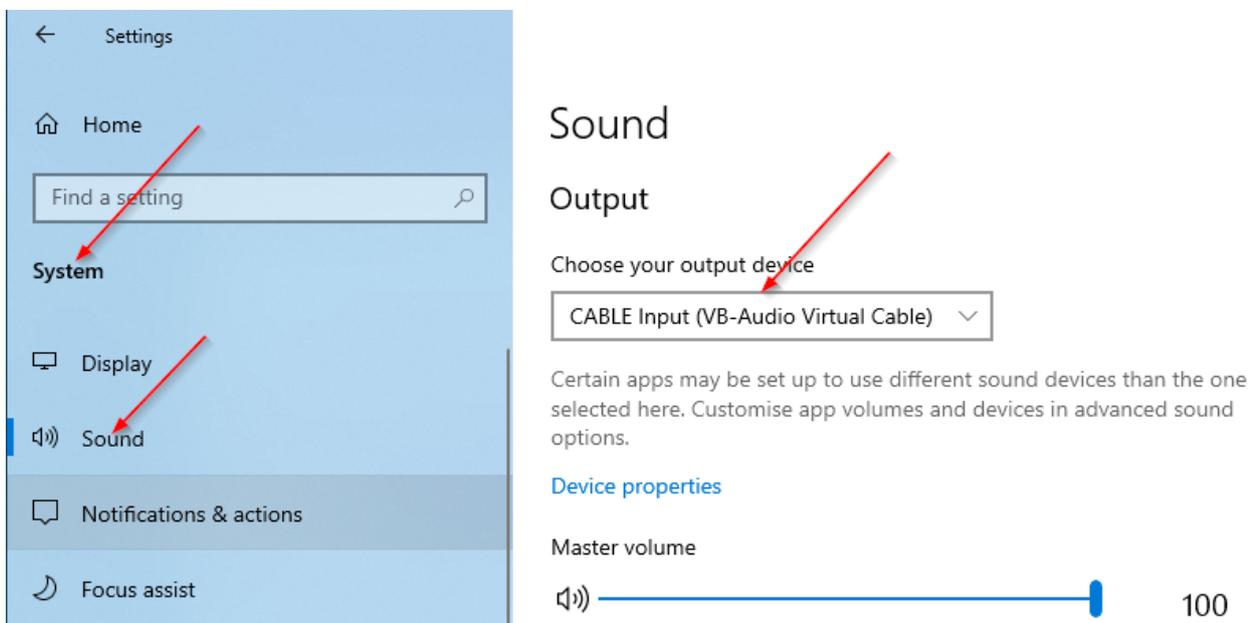
Now start the installation program **VBCABLE_Setup_x64.exe** in administration mode (right mouse button **Start As Administrator**) and follow the instructions.



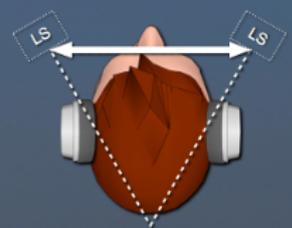
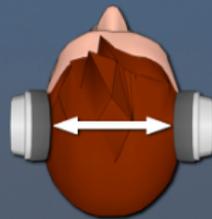
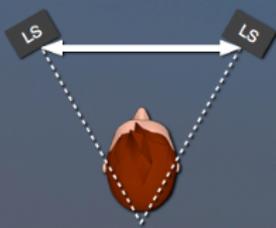
A restart is required after installation.

Now a new output appears in **Settings / System / Sound** : **CABLE Input (VB-Audio Virtual Cable)**.

This entry must be selected for **amoenus externus** to work.



By starting the installer **amoenus audio.msi**, you will be guided through the installation of **amoenus externus**.

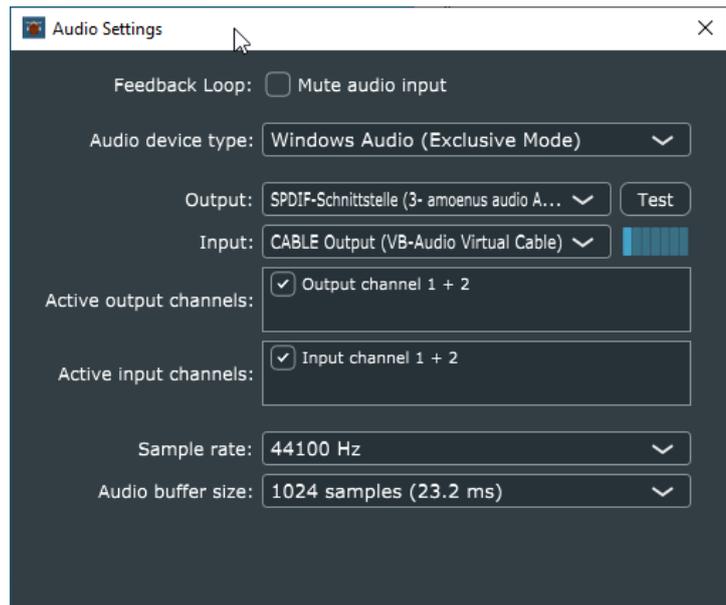
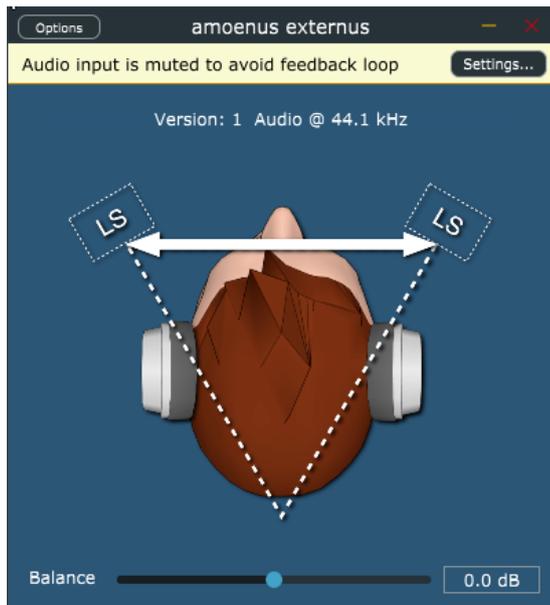


Operating amoenus externus on PC

After installation, the program icon appears on the desktop. Double click to start.



The audio path is interrupted at the first start for safety reasons.



In **Settings...** make the following adjustments:

Feedback Loop: switch off

Audio device type: the audio engine used is selected here

Try different settings if interference occurs during playback (see also Audio buffer size).

Output: select the output to headphones, amplifier or DAC

Input: CABLE Input (VB-Audio Virtual Cable) ⚠

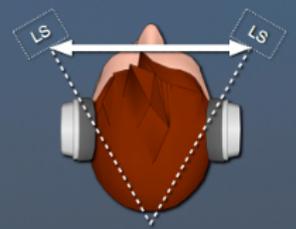
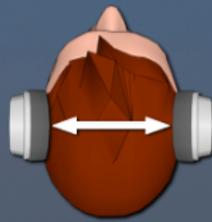
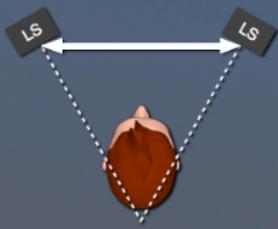
Active output / input channels must be switched on.

Sample rate: set to the same sample rate as the audio source (otherwise VB Cable will adapt the sample rate)

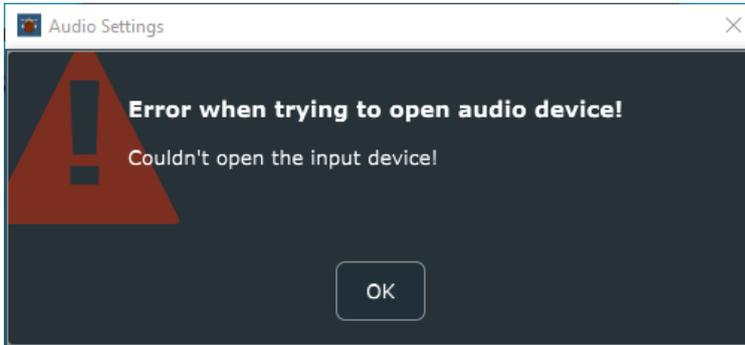
Audio buffer size: an increased value can be set in the event of interference

Test: a click trigger a short control tone at the output

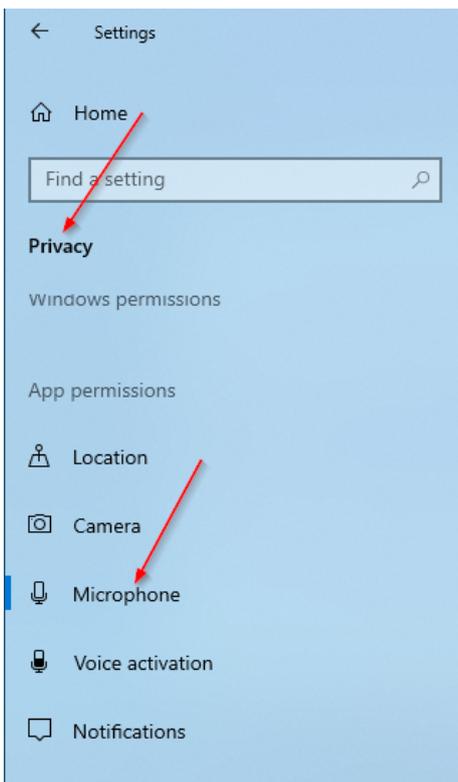
Indicator bar: indicates when there is an audio signal at the input



If the following window appears when selecting the input



access to the microphone must be enabled in **Settings / Privacy / Microphone**.



Microphone

Allow access to the microphone on this device

If you allow access, people using this device will be able to choose if their apps have microphone access by using the settings on this page. Denying access blocks Windows features, Microsoft Store apps and most desktop apps from accessing the microphone.

Microphone access for this device is on

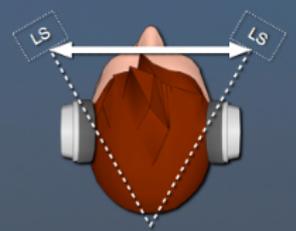
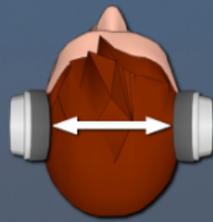
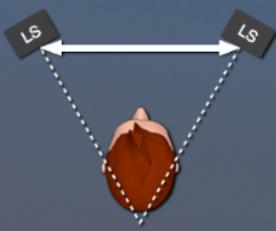
[Change](#)

Allow apps to access your microphone

If you allow access, you can choose which apps can access your microphone by using the settings on this page. Denying access blocks apps from accessing your microphone.

On

Some desktop apps may still be able to access your microphone when settings on this page are off. [Find out why](#)

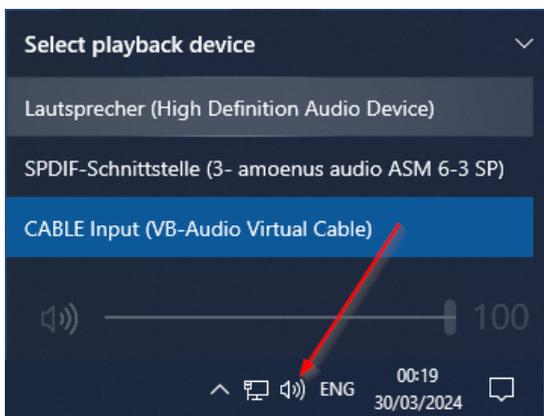


Now you can start any program with an audio output and enjoy the pleasant sound of **amoenus externus** on your headphones.

Switching between **unprocessed** and **amoenus externus** is done with a click in the program window.

The **Balance control** is used to equalize the audio level if the sensitivity of the ears differs (the setting is not saved).

If you want to switch the audio output back to another output (e.g. internal speaker), you can do this in **Settings / System / Sound**, or more simply in the taskbar by the speaker symbol.



If you can **directly** determine the audio output in the settings of a program (e.g. streaming app), you must select **CABLE Input (VB-Audio Virtual Cable)**.

Technical data

Supported sample rate: 44.1 / 48 / 88.2 / 96 / 176.4 / 192 kHz

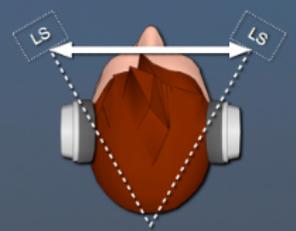
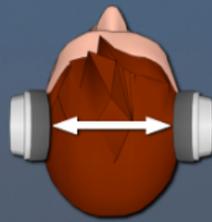
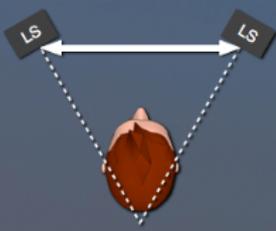
internal resolution: 32-bit float

Balance control range: -10dB

To prevent clipping, the volume is reduced by 3 dB.

amoenus externus was developed on the JUCE audio platform.





Functional diagram of *amoenus externus*

