

# JB OMNISONO SPATIAL IMAGE PROCESSOR

JB **Omnisono** is a free VST plugin, with control of the side signal level, means to enhance the ambiance (by making the side signal louder, and/or adding synthetic side signal), and to re-pan both input signals individually, even outside the loudspeaker base.

You can download it here : [http://www.jeroenbreebaart.com/audio\\_vst.htm](http://www.jeroenbreebaart.com/audio_vst.htm)



> **Side gain** : it is rather explicit : the volume of the side signal ;



> **Side mix** : The side mix inserts an *artificial side signal* that is derived from the actual side signal. This signal can create *additional widening* that is not coherent with the existing side signal. An important note: if the actual side signal is zero (so L,R is fully mono) this knob will not have any effect, because the artificial side signal is zero too.



> **character** = This knob determines the *delay of the artificial side signal*.



> **mode I / II**

**Mode I** is optimized processing for a *standard loudspeaker* setup (+/- 30 degrees azimuth).

**Mode II** is optimized for *closely-spaced loudspeakers* (for example on laptops)



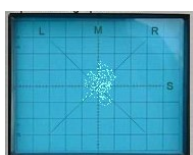
> the small icon above mode I/II is 'bypass'.



> **horizontal lines on the top right** = individual panning of left and right channel.

You can *re-pan both input signals individually* by moving the two small horizontal black lines with a blue cursor on the top left part of the GUI.

Any values *beyond 100%* try to *position the source outside the loudspeaker base* by means of cross-talk cancellation. This is where the *Mode I / II* comes in.



> **the spectrum display** : here you can see if your signal is out of phase, and richer in side or in mid signal.

An *horizontal line* will mean that you have only side signal, and a *vertical line* will mean you have only mid signal (like a mono signal where no stereo occurs). To avoid phase issues, it is best to stay away from horizontal display.