

ARUTIL

GAIN AND ROUTING



VERSION

1.0.0

FORMATS

AU • VST3

PLATFORMS

macOS • WINDOWS

DOCUMENT

USER GUIDE

01 WHAT IT DOES

Six things, all of them exact. Change the level by a known number of decibels. Pan without losing level in the centre. Invert either channel. Swap the two. Sum to mono. Take out DC.

With every control at its default the output is the input, sample for sample – the difference is exactly 0.000, measured on every build. That is not a small thing to get right: the pan law was chosen so the centre is exactly 1.0, and unity gain is forced to exactly 1.0, because a utility that quietly multiplies by 0.99999994 is worse than useless.

It has no width control. Shaping stereo width is what ARWIDTH is for; the two do not do the same job.

02 INSTALLING

macOS

Run ARUTIL Installer.pkg and follow the steps. The package is signed and notarised by Apple, so it opens normally.

Windows

Run ARUTIL Installer.exe. The plugin goes to the shared VST3 folder. SmartScreen may warn you once: More info, then Run anyway.

After installing

Rescan the plugin list in your DAW. Requirements – macOS 10.13 or newer, Intel or Apple Silicon. Windows 10 or newer, 64-bit.

03 PARAMETERS

CONTROL	RANGE	DEFAULT	WHAT IT DOES
GAIN	-24 ... +24 dB	0.00 dB	Level, in hundredths of a decibel. At 0.00 the multiplier is exactly one, so the audio is untouched. Moving it is smoothed over ten milliseconds, so automation does not click.
PAN	L 100 ... R 100	CENTRE	Constant power, with unity in the centre – panning never drops the level of a centred source. Type L 40 or R 100 into the value and it reads back.
SWAP	on / off	off	Exchanges the two channels.
MONO	on / off	off	Sums to mono – both channels become the average. The fastest check of what survives a club system.
FLIP L / FLIP R	on / off	off	Inverts that channel exactly. Use one of them to find phase problems between two mics or two tracks.
DC	on / off	off	A one-pole high pass at 20 Hz that removes DC offset. Off by default, because it is a filter and a utility should not filter unless you ask.

04 MEASURED

UNITY

0.000

Largest sample difference between input and output with every control at its default, over 300 blocks of noise. Exactly zero.

GAIN

0.012 dB

Worst error over seven settings from -24 to +24 dB.

PAN

0.000 dB

Change in total power across the sweep. Centre gives exactly 1.0 on both channels.

FLIP / SWAP / MONO

0.000

Each compared against the exact expected result, sample by sample.

LATENCY

0 samples

PROCESSOR

0.01 %

05 SUPPORT

Questions and bug reports: Instagram @ajanssrecords. Please include your operating system, your DAW and its version, the plugin format, and the version shown in the top right.

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