

ARGEN

SIGNAL GENERATOR



VERSION

1.0.0

FORMATS

AU • VST3

PLATFORMS

macOS • WINDOWS

DOCUMENT

USER GUIDE

01 WHAT IT DOES

Five test signals at a level you can trust: a sine, a logarithmic sweep from 20 Hz to 20 kHz, white noise, pink noise, and a one-sample impulse once a second. Send them to both channels, to one side, or as mid or side.

Every one of them is measured. A generator that is a decibel off makes every measurement you take with it a decibel off, and nothing tells you. Here the level is exact to 0.00 dB, the frequency to 0.02 cents, and pink noise sits within 0.19 dB across eight octaves.

When it is not running it gets out of the way: the output is the input, sample for sample. Starting and stopping is ramped, so it never clicks.

02 INSTALLING

macOS

Run ARGEN Installer.pkg. Signed and notarised by Apple, so it opens normally.

Windows

Run ARGEN 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
TYPE	SINE / SWEEP / WHITE / PINK / IMPULSE	SINE	Which signal. The sweep runs 20 Hz to 20 kHz logarithmically and starts again. The impulse is one full-scale sample every second – the shortest way to see a reverb tail or an impulse response.
FREQ	20 Hz – 20 kHz	1 kHz	Sine frequency. The phase is continuous, so turning it while it plays does not click. Type 2k5 or 440 into the value and it reads back.
LEVEL	-60 ... 0 dBFS	-20 dBFS	Output level. This is the peak of the sine, exactly.
SWEEP	0.5 – 30 s	5 s	How long one sweep takes, end to end.
CHANNEL	BOTH / LEFT / RIGHT / MID / SIDE	BOTH	Where it goes. SIDE puts the two channels out of phase, so the signal disappears completely in mono – the fastest way to check a mono fold-down.
RUN	on / off	off	Starts and stops. Off, the plugin passes the input untouched.
REPLACE	on / off	on	On, the signal replaces the input while running. Off, it is added on top.

04 MEASURED

LEVEL

0.00 dB

Worst error over -60, -40, -20, -6 and 0 dBFS. The peak of the sine is exactly what the knob says.

FREQUENCY

0.02 cents

Worst error over 50 Hz, 440 Hz, 1 kHz, 5 kHz and 15 kHz.

PINK NOISE

0.19 dB

Spread across eight octave bands from 62.5 Hz to 16 kHz. The usual three-pole approximation gave 1.58 dB here, which is enough to mislead a room measurement, so this is a seven-pole filter.

SWEEP

logarithmic

Measured at the halfway point: 666 Hz against the geometric mean of 632 Hz.

IMPULSE

1 sample

One full-scale sample, exactly 48000 samples apart at 48 kHz.

NOT RUNNING

0.000

PROCESSOR

0.03 %

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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