

## NS-4, four output voltage controlled noise generator

The NS-4 is a true analogue noise generator with four noise/random signal outputs; Sample and Hold (S/H), White, Pink and Red.

### S/H

The S/H generates a random signal controlled by two voltage controlled parameters; RATE and LAG (slew rate). The RATE controls the period for every sample point from 10 seconds (0.1 Hz) to 2 millisecond (500Hz).

The LAG controls the slew rate of the incoming S/H signal from 0.1 Hz to 1000 Hz.

The outgoing signal is, in other words, filtered by a voltage controlled low pass filter with 12 dB/octave slope. The S/H RATE and the S/H LAG can be controlled manually by knobs and by external signals (RATE CV and LAG CV). Rate generator can be sync-ed by an external signal and with any shape (S/H TRIG input).

The S/H can be also used for an external signal (EXT S/H) and the level of incoming signal is controlled manually (EXT S/H LEVEL).

### WHITE noise

white noise is a full audio bandwidth noise generator.

### PINK noise

pink noise is a filtered white noise generator by 3dB/octave across the whole audio frequency range.

### RED noise

red noise is hard filtered and contains essentially only frequencies up to 200 Hz.

### Performances

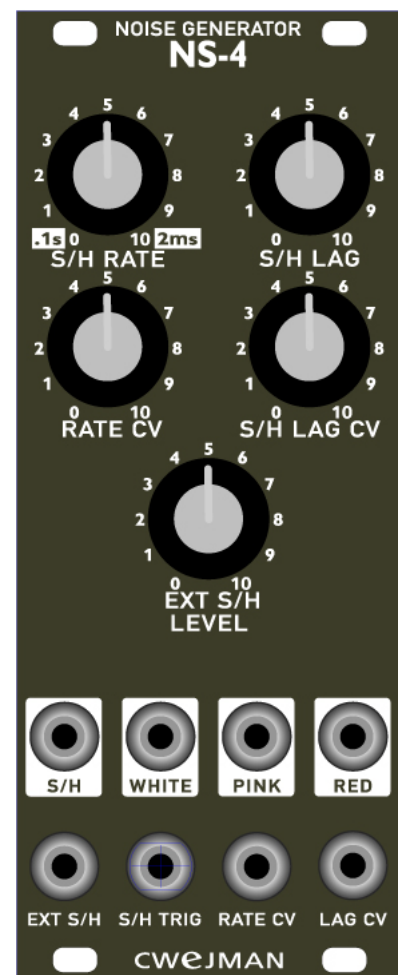
S/H RATE	0.1 second to 2milliseconds
RATE CV	from 0 to 1Volt/octave
S/H LAG	from 0.1 Hz to 1 kHz
S/H LAG CV	0 to 1 Volt/octave
S/H TRIG	accept any waveform, 2-12 Volts
EXT S/H (LEVEL)	0 to 12 Volts p-p
OUTPUTS	nominal 5 Volts p-p, 1kohms

Current consumption

20mA

Dimensions

128.4mm (H), 30.5mm (B)  
3 HE, 6TE



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