

Sample & Hold

A Sample & Hold virtual circuit that reads an input in real time (external or internal) and takes a "snapshot" of this input whenever it receives a trigger signal. This snapshot is a fixed value that will be output until a new "snapshot" is taken.

On any page of the S&H modulator, a visual display provides a rough outline of the source signal and the sampled value.

Main screen of the Sample & Hold modulator



On the real-time chart displayed on the screen, the input source is shown in a faded background, while the sampled output appears in black.

The trigger parameter has a small indicator that lights up whenever a trigger signal is received.

S&H Tab

This section allows you to configure the basic parameters for the Sample & Hold:

Source	Trigger	-	-
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The signal to be sampled can be internal noise, any CV input, modulators from any voice or global sources, Macros, or even any Voice output. Additionally, it includes a selection of MIDI parameters such as Velocity, Key Follow, Aftertouch, and ModWheel.	<p>The S&H can be triggered by any of the Gate inputs, the Voice trigger, or various divisions and multiplications of the MIDI clock.</p> <p>A small dot indicator will activate each time a trigger is received, signaling that a new sample has been taken.</p>	-	-
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Output Tab

This section allows you to shape the S&H signal before it is sent to modulation targets:

Polarity	Gain	-	-
Select the polarity of the S&H signal: <ul style="list-style-type: none">BipolarUnipolar PositiveUnipolar Negative	Adjust the level of the S&H signal. This parameter can be modulated.	-	-