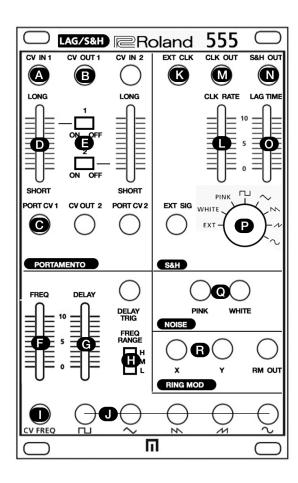
ROLAND SYSTEM-500 MODULE 555

DUAL VOLTAGE CONTROL FILTER

The SYS-555 contains both traditional and non-traditional modulation sources. Offering ring modulation, sample and hold with seven waveforms and internal LPF, pink and white noise modes, LFO with internal ENV and VCA, and two CV controlled portamento circuits.





A PORTAMENTO CV IN 1/2 Input point for the signals to which to apply portamento.

B PORTAMENTO CV OUT 1/2
Output the waveform with portamento applied.

PORTAMENTO CV 1/2
These jacks input a voltage
used to control LONG / SHORT

from an external source.

D LONG / SHORT

These sliders adjust the amount of portamento.

As the slider approaches SHORT, the signal approaches the original waveform

ON / OFF

These switches turn portamento on/off.

F LFO FREQUENCY
Specifies the frequency of the LFO.

G LFO DELAY

When a signal is input to DELAY TRIG, the output amplitude from the LFO temporarily becomes 0, and gradually returns to its original amplitude according to the setting of the DELAY slider.

LFO FREQUENCY RANGE This switch specifies the LFO's frequency range.

LFO CV FREQUENCY
This jack inputs a voltage used to control the LFO's frequency from an external source.

J LFO WAVEFORM

These jacks output a pulse wave, triangle wave, sawtooth wave, reverse sawtooth wave, and sine wave.

K S&H EXTERNAL CLOCK

Input a clock signal to this jack if you want to use a clock from an external source to hold the signal, instead of using the internal LFO.

S&H CLOCK RATE

This slider specifies the frequency of the internal LFO that is used for HOLD. The frequency is indicated by the blinking of the LED.

M S&H CLOCK OUT

The CLK OUT jack output the clock signal of the internal LFO. If EXT CLK is being input, a clock signal is output at its frequency.

N S&H OUT

This jack outputs a voltage that is held from the input signal. By adjusting the LAG TIME you can smooth the changes in the CV waveform that is output.

LAG TIME

S&H contains an internal LPF. The output signal goes through the LPF before it is output. This slider specifies the cutoff frequency of the LPF.

P SAMPLE SELECTOR

This switch selects the input signal (SAMPLE). You can choose from internally- generated pink noise, white noise, LFO output waveforms, or EXT SIG from an external source.

Q NOISE

The PINK jack outputs pink noise, and the WHITE jack outputs white noise.

R RING MOD

The waveforms of X and Y are multiplied and output from the RM OUT jack.

SPECIFICATIONS

INDICATORS

CONNECTORS

CONTROLLERS

PORTAMENTO 1 SLIDER
PORTAMENTO 1 SWITCH
PORTAMENTO 2 SLIDER
PORTAMENTO 2 SWITCH
CLOCK RATE SLIDER
LAG TIME SLIDER
SAMPLE & HOLD KNOB

DELAY SLIDER

FREQUENCY SLIDER

FREQUENCY RANGE SWITCH PORTAMENTO 1 INDICATOR PORTAMENTO 2 INDICATOR

CLOCK RATE INDICATOR CV IN 1 & 2 JACK

CV OUT 1 & 2 JACK PORTAMENTO CV IN1 & 2 EXTERNAL CLOCK IN JACK

CLOCK OUT JACK

POWER SUPPLY CURRENT DRAW

ACCESSORIES

SAMPLE & HOLD OUT JACK EXTERNAL SIGNAL IN JACK DELAY TRIGGER JACK

CV IN JACK SQUARE JACK

TRIANGLE JACK SAW JACK

INVERTED SAW JACK SINE WAVE JACK

PINK & WHITE NOISE JACKS (2) RING MOD X, Y, OUT IN JACKS (3)

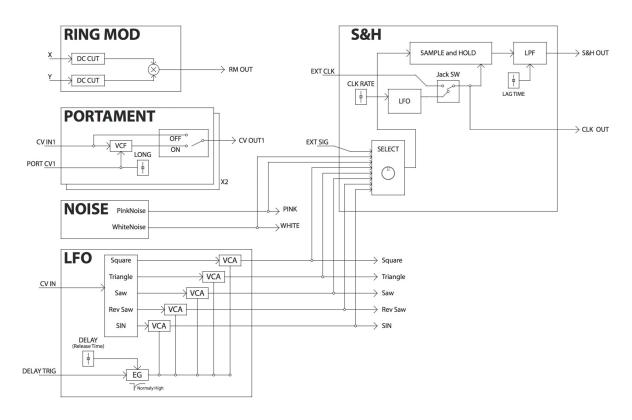
EURORACK POWER 110 MA (+12 V) 85 MA (-12 V) OWNER'S MANUAL

LEAFLET "USING THE UNIT SAFELY" EURORACK INSTALLATION SCREWS

EURORACK POWER CABLE

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BLOCK DIAGRAM



ABOUT SAMPLE AND HOLD

S&H is a function that remembers (samples) an input signal and maintains (holds) its level as specified by a clock signal. As the input signal, the S&H of the SYS-555 can use its own LFO output waveform, pink noise, white noise, or the EXT SIG input signal. It holds this input signal as specified by the internal clock signal of the S&H or an EXT CLK.

By combining various input signals and clock signals, you can create a CV that is unpredictable yet has regularity.

By adjusting the LAG TIME you can smooth the changes in the CV that is output.

ABOUT LFO

The LFO of the 555 can output five types of waveform, and also contains a delay function.

When a signal enters the DELAY TRIG jack, the output amplitude from the LFO temporarily becomes 0, and gradually returns to the original amplitude according to the setting of the DELAY slider.

By using this in conjunction with the VCO, you can create delayed vibrato in which vibrato is applied a little while after the sound begins.