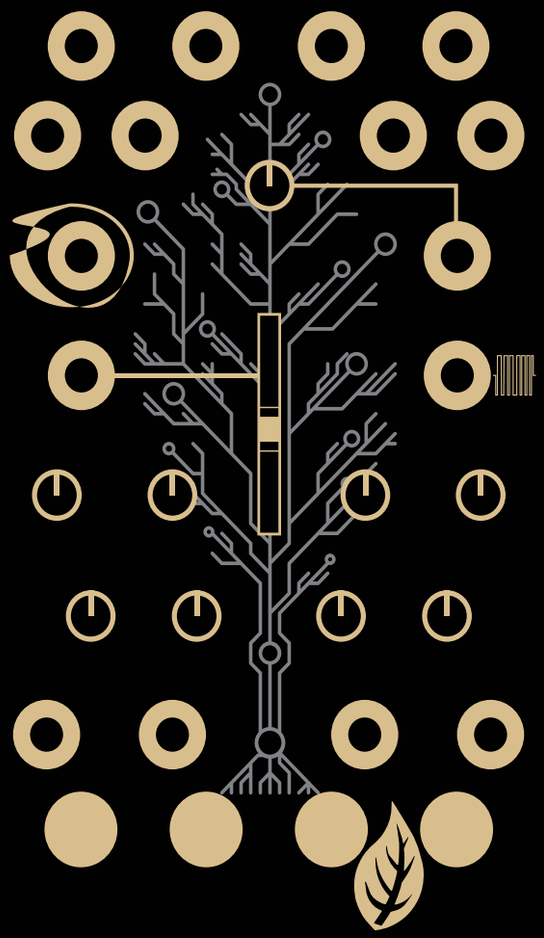
INSTRUŌ | SPECIALIST SYNTHESIZERS



SCÍON

Quad Random Voltage Generator / Biofeedback > CV

Overview

SENSITIVITY

CV OUTPUTS
(0 VOLTS - 5VOLTS)

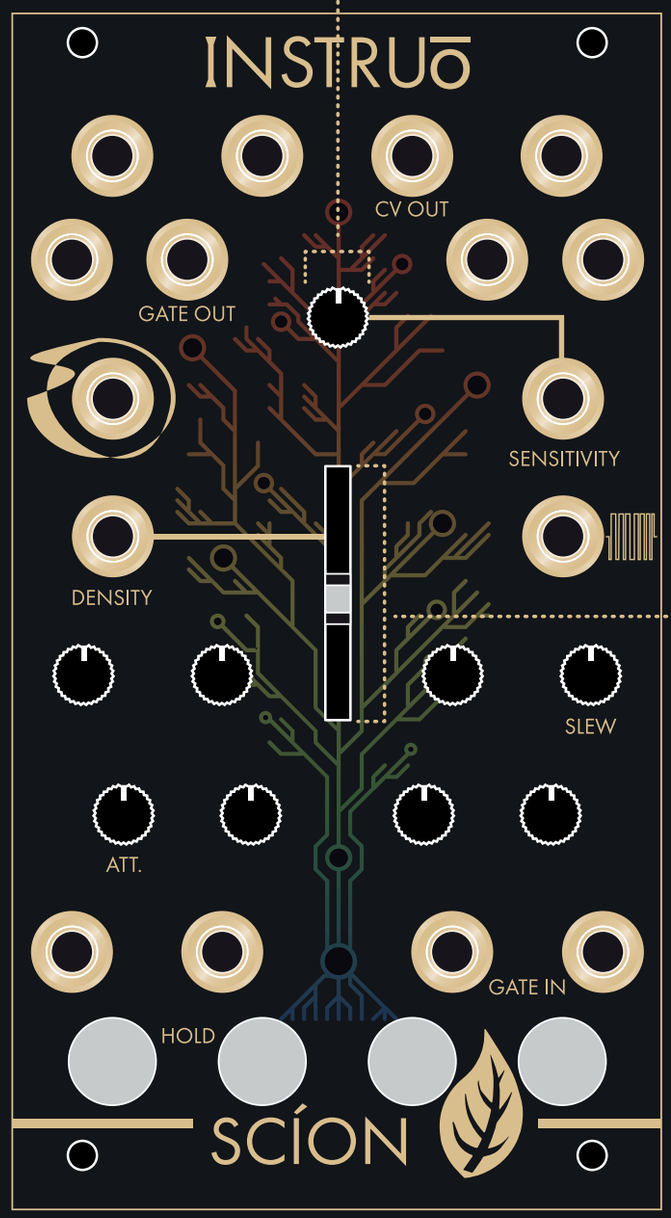
SENSOR INPUT
(SIGNALS PRESENT HERE WILL CONNECT TO THE INTERNAL BIOFEEDBACK SENSOR)

DENSITY CV INPUT

SLEW
(APPLIES SLEW TO THE CV OUTPUT)

CV ATTENUATORS

HOLD BUTTONS



1 2 3 4
CHANNELS

GATE OUTPUTS

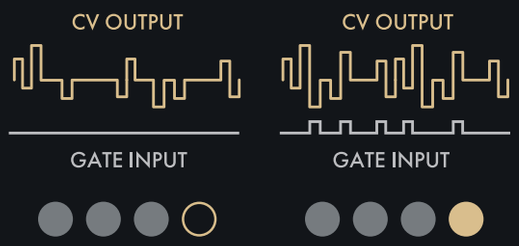
NOTE DURATIONS
(100MS - 3.5S)

SENSITIVITY CV INPUT

RAW SIGNAL OUTPUT

DENSITY FADER
(GLOBALLY DEFINES THE DISTRIBUTION OF AVAILABLE VOLTAGES)

GATE INPUTS

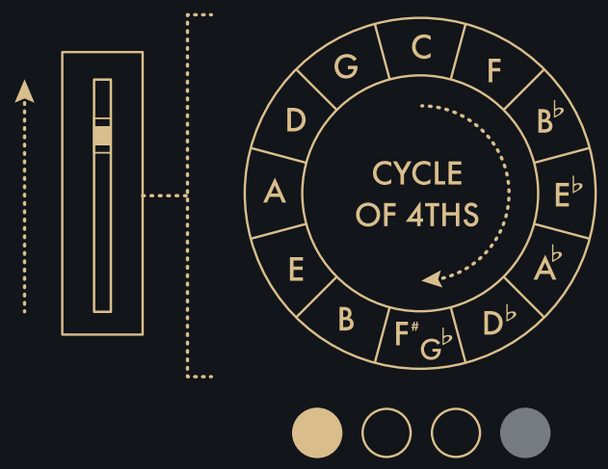


LEAF
(CONDUCTIVE ELECTRODE CONNECTED TO THE INTERNAL BIOFEEDBACK SENSOR)

Modes

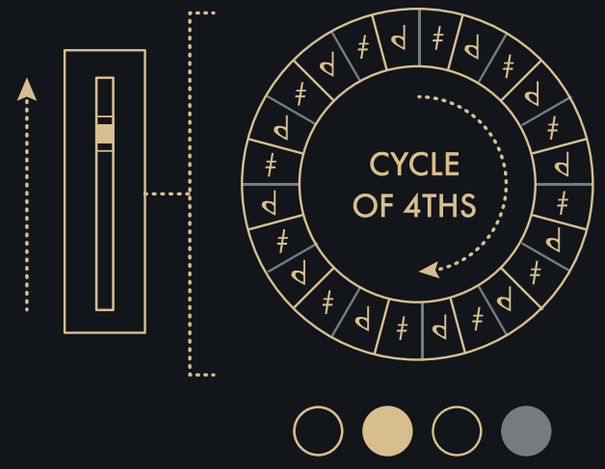
MODE 1 - QUANTISED MODE

CV OUTPUTS WILL BE QUANTISED IN SEMITONES.



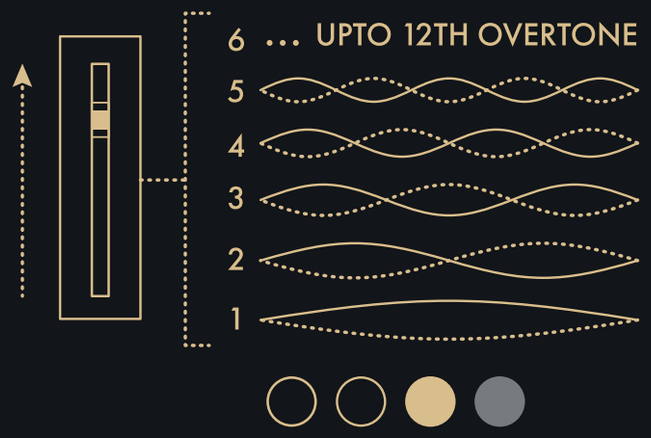
MODE 2 - RANDOM MODE

CV OUTPUTS WILL BE QUANTISED IN SEMITONES WITH ADDITIONAL RANDOM VOLTAGE OFFSETS APPLIED.



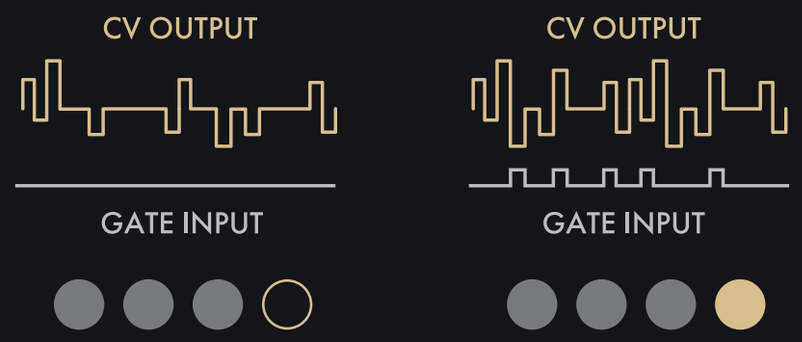
MODE 3 - HARMONIC OVERTONE MODE

CV OUTPUTS WILL BE QUANTISED TO INTERVALS THAT OUTLINE THE HARMONIC OVERTONE SERIES. THE FUNDAMENTAL HARMONIC CAN BE DEFINED BY THE DENSITY CV INPUT.

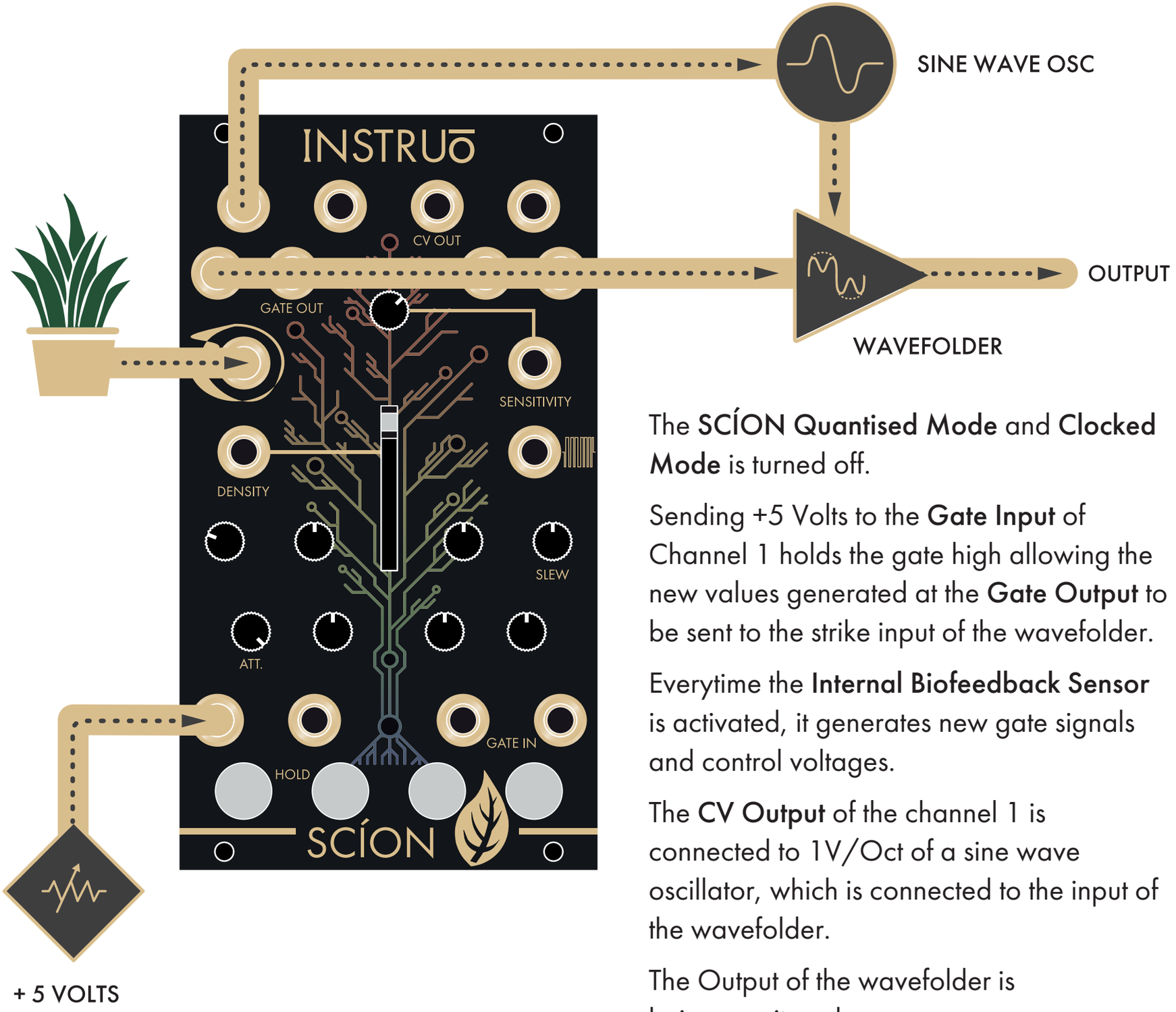


MODE 4 - CLOCKED MODE

CHANGES THE GATE INPUTS TO FUNCTION SIMILAR TO A SAMPLE AND HOLD. EVERY GATE/TRIGGER PRESENT FORCES A NEW VOLTAGE AT THAT CHANNELS CV OUTPUT.
NEW VOLTAGES WILL ONLY OCCUR IF THERE IS ENOUGH ACTIVITY AT THE INTERNAL FEEDBACK SENSOR.



Patch Example - Random Burst Generator



The **SCÍON Quantised Mode** and **Clocked Mode** is turned off.

Sending +5 Volts to the **Gate Input** of Channel 1 holds the gate high allowing the new values generated at the **Gate Output** to be sent to the strike input of the wavefolder.

Everytime the **Internal Biofeedback Sensor** is activated, it generates new gate signals and control voltages.

The **CV Output** of the channel 1 is connected to 1V/Oct of a sine wave oscillator, which is connected to the input of the wavefolder.

The Output of the wavefolder is being monitored.