

— CORSYNTH —

C-105E

VC NOISE / LO-FI MACHINE



USER MANUAL

C105E VC NOISE / LO-FI MACHINE

The C105E VC Noise / Lo-Fi Machine is a voltage controlled analog sample rate reducer with an internal white noise generator and a voltage controlled high pass filter (12db/octave) with an independent output.

This module is based on a Sample and Hold designed to work at audio rates. The internal clock can be CV controlled and it has two ranges of operation:

- High : from 250Hz up to 40KHz
- Low : from 150HZ to 0,1Hz

This wide frequency range and two FM inputs (one with a reversible attenuator) allows to create subtle digital effects , really harsh Lo-Fi sounds and Random signals .

The noise generator and the internal S&H makes a perfect combination to create pitched noise, very useful to synthesize drums sounds , drones, sound effects etc.

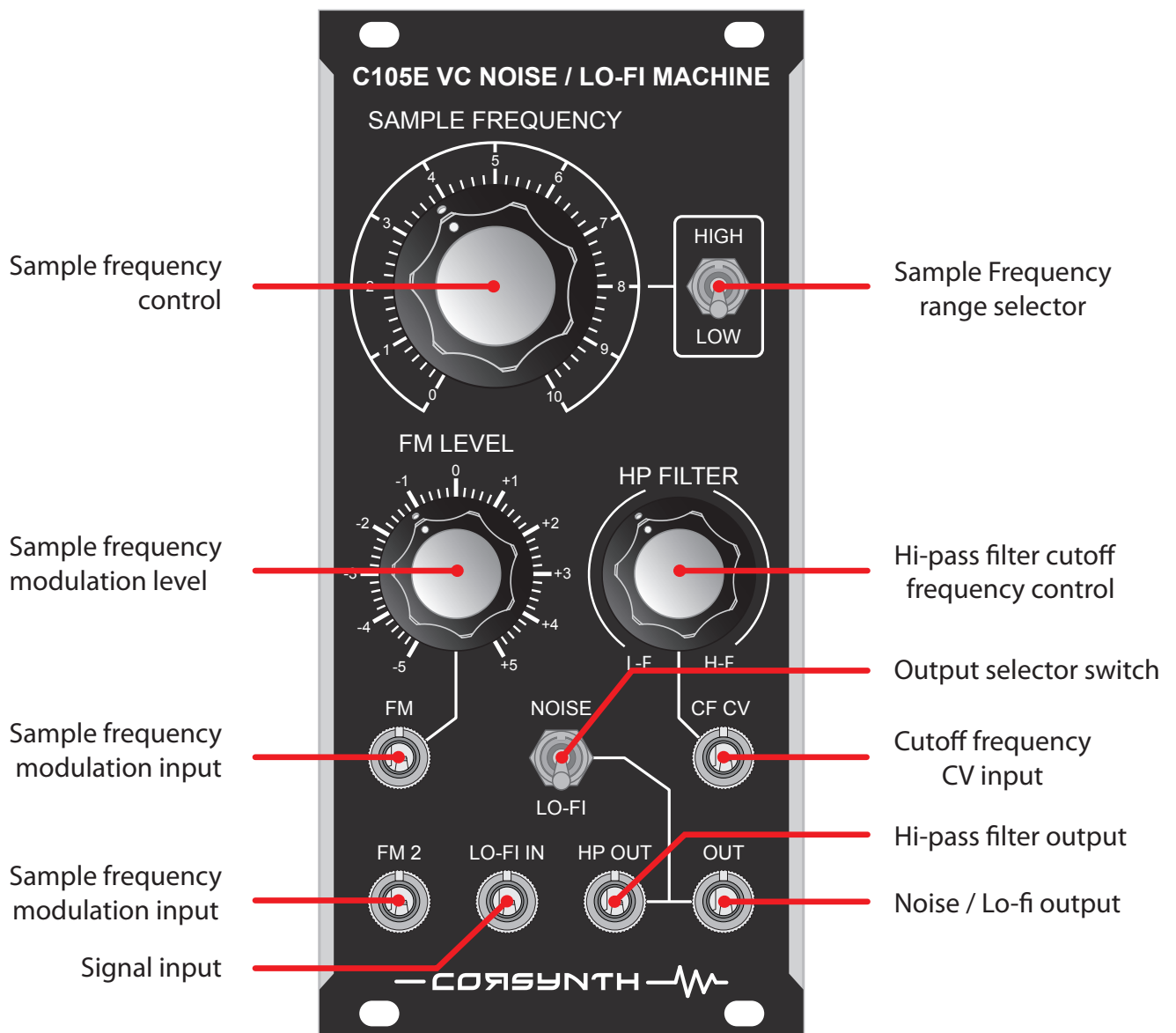
C105E main characteristics

- Internal white noise generator.
- CV controlled sampling frequency.
- Frequency range : 0.1Hz to 40KHz
- Voltage controlled High Pass filter.

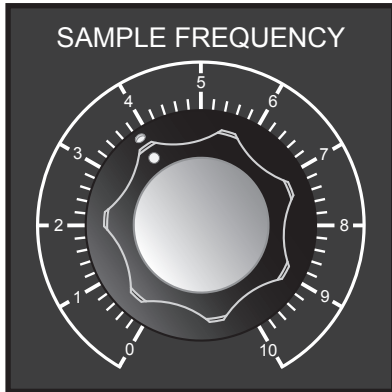
The Lo-Fi input is normalized to the internal noise generator.



C105E VC Noise / Lo-Fi Machine Front Panel Description



CONTROL DESCRIPTION



SAMPLE FREQUENCY

This control sets the sampling frequency of the internal Sample and Hold.



SAMPLE FREQUENCY RANGE SELECTOR SWITCH

- High : from 250Hz up to 40KHz
- Low : from 150HZ to 0,1Hz



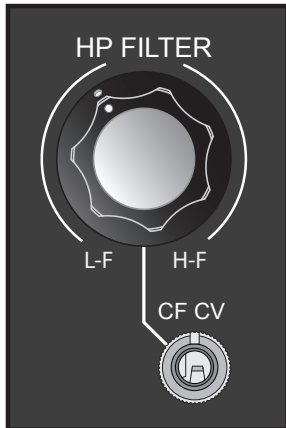
FM

Sample frequency modulation input. The **FM LEVEL** control is a reversible attenuator that sets the amount of modulation. The input allow positive and negative signals (+/- 5 Volts).



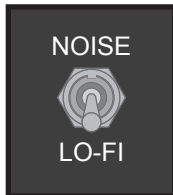
FM 2

Sample frequency modulation input. The input allow positive and negative signals (+/- 5 Volts)



CF CV

High Pass filter cut-off frequency CV input. The HP FILTER control sets de cut-off frequency of the filter.



INPUT SELECTOR SWITCH

This switch selects the signal to be sampled by the internal Sample and Hold. The two options available are :

- NOISE : internal noise generator
- LO-FI : LO-FI signal input



HP OUT

High Pass filter output



LO-FI IN

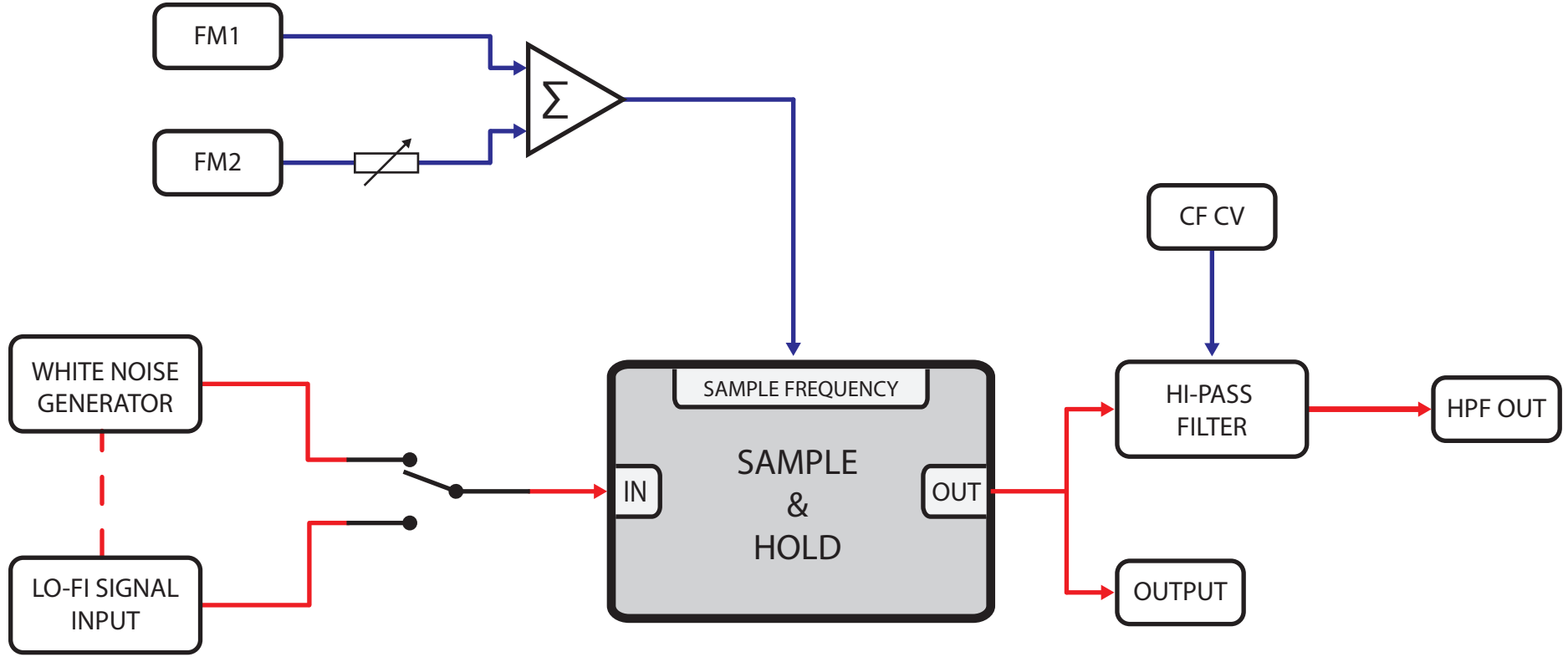
Input signal to be sampled. If nothing is patched to this input, the internal noise generator is connected to it.



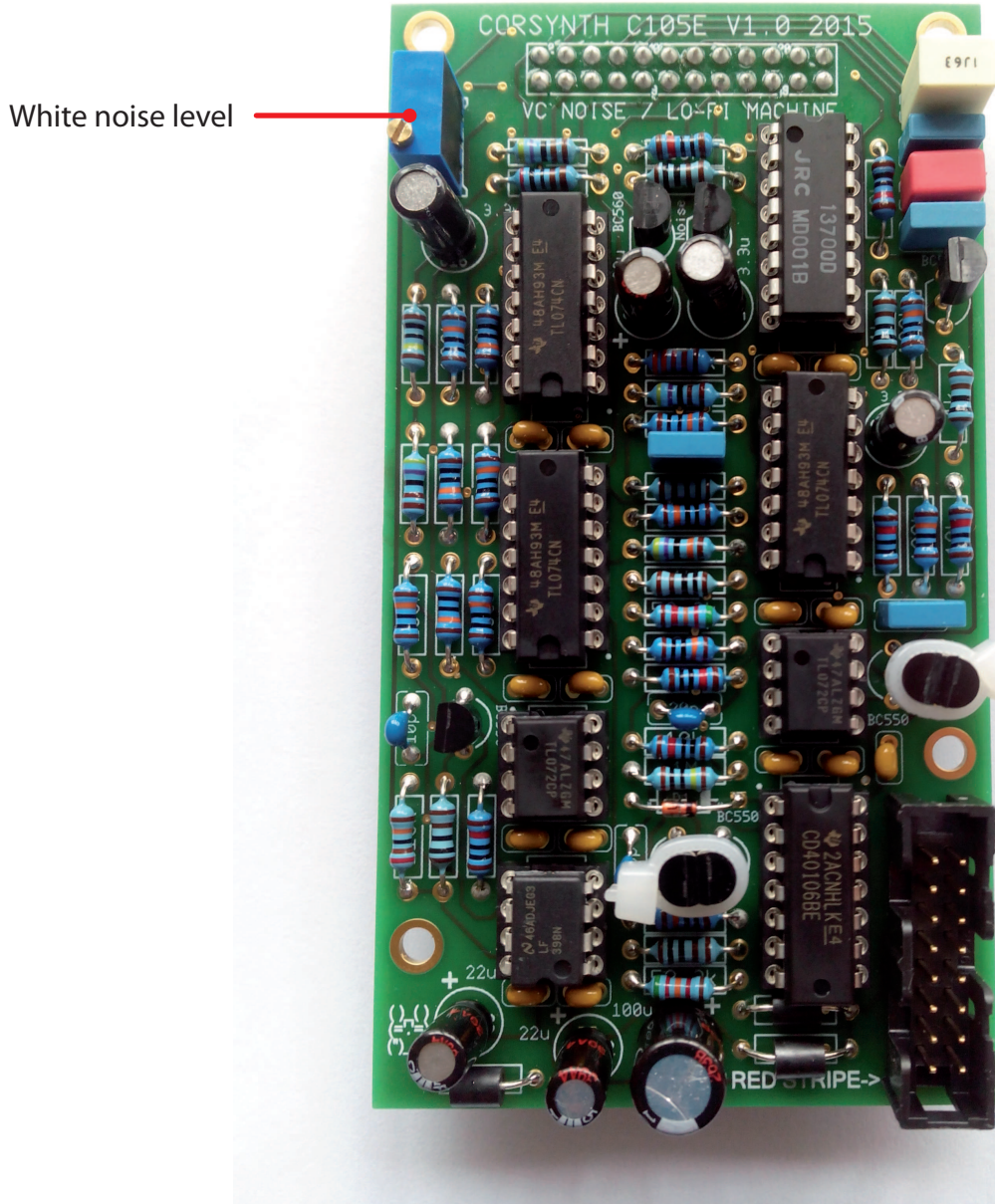
OUT

Sampled signal output.

BLOCK DIAGRAM



POWER CONNECTORS AND TRIMMERS



TECHNICAL DATA

Module Format : Eurorack

Module Width : 12 Hp

Power : +12V@33mA , -12V@35mA

Signal level : 10Vpp (+/- 5V)

