

C115 DUAL LFO



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The **C115 Dual LFO** is a dual low frequency oscillator with some interesting features. Modulation sources are always a must have in every system and this module can be a good addition to save some space.

The C115 has two low frequency oscillators. The first one is voltage controlled and its FM input is internally connected to the second LFO. This connection allows to create complex modulations without any patching. The normalization will be broken if a patch cable is inserted into the FM input.

Each LFO has an independent Sync input that will reset the LFO to the beginning of the cycle.

The C115 is a great middle point between a basic non voltage controlled LFO and a full featured LFO like de C102 VC LFO.

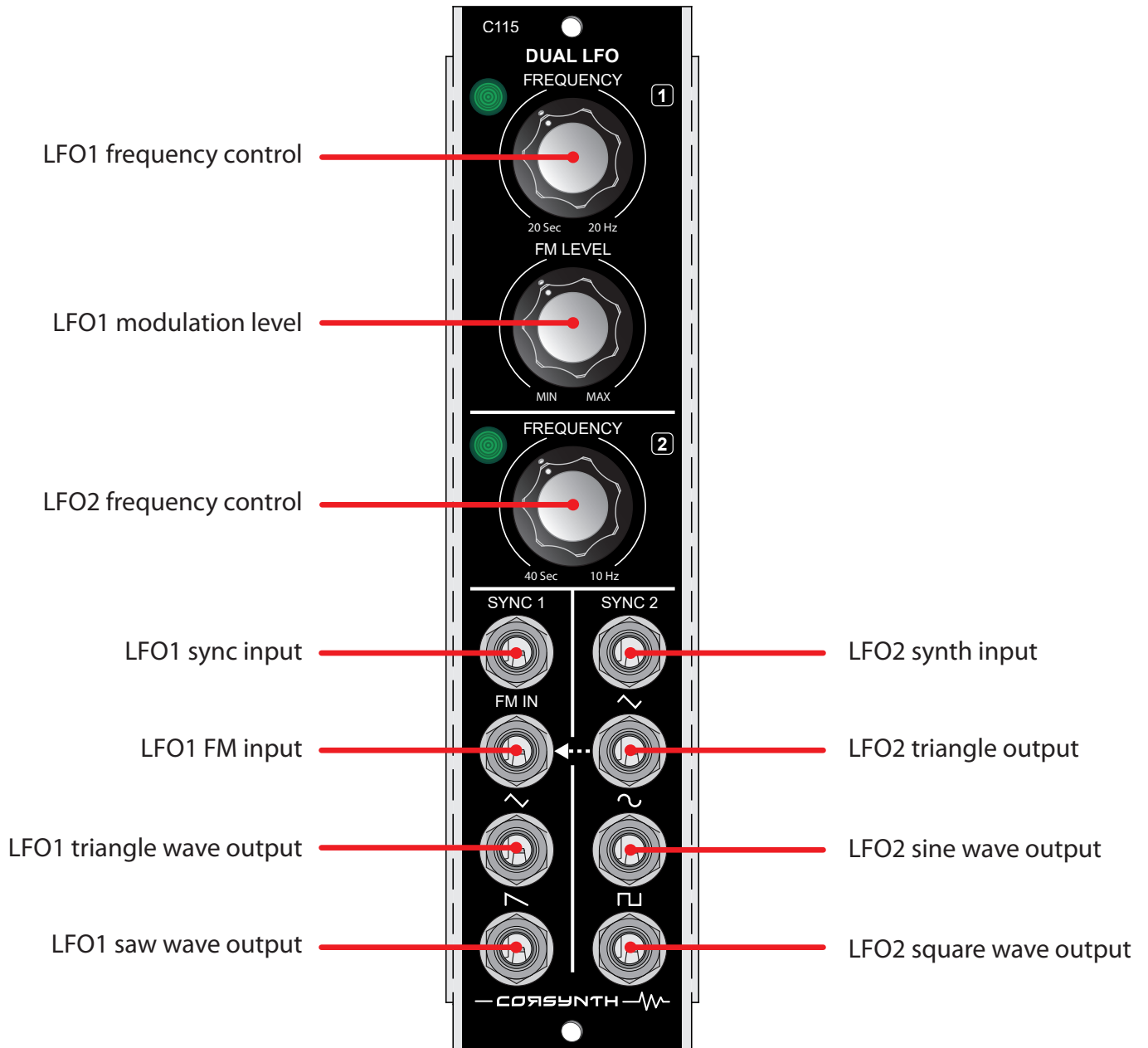
C115 characteristics :

- Two LFOs in one space.
- LFO1 range : 20 seconds per cycle to 20Hz (can be extended using CV).
- LFO2 range : 40 seconds per cycle to 10Hz
- Two independent sync inputs
- LFO1 is voltage controlled. It has a FM input with attenuator.
- LFO2 triangle wave is normalized to the LFO1's FM input.
- LFO1 has two waveforms available simultaneously
Triangle and Saw
- LFO2 has three waveforms available simultaneously,
Triangle, Sine and Square.

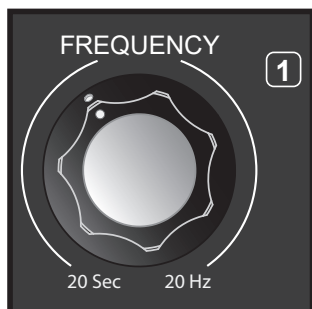


C115 Dual LFO

Front Panel



CONTROL DESCRIPTION



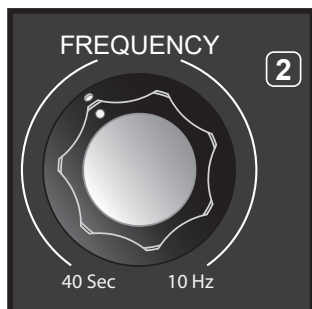
FREQUENCY 1

This knob sets the LFO1 frequency. The frequency range goes from 20 seconds to 20Hz. This range can be expanded using modulation.



FM LEVEL

This knob sets the amount of modulation for the LFO1.



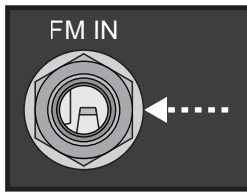
FREQUENCY 2

This knob sets the LFO2 frequency. The frequency range goes from 40 seconds to 10Hz.



SYNC 1

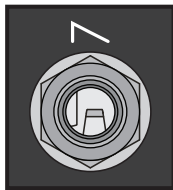
Sync / Reset input. Every time a trigger signal is detected, the LFO1 will reset the waveform to the beginning of its cycle.

**FM IN**

LFO1 frequency modulation input. The input accepts positive and negative signals. It's internally connected to the LFO2's triangle wave. The normalization will be broken if a patch cable is inserted into the FM input.

**TRIANGLE**

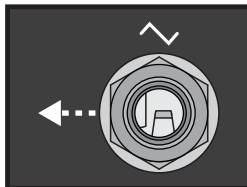
LFO1 triangle wave output

**SAW**

LFO1 saw wave output

**SYNC 2**

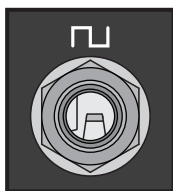
Sync / Reset input. Every time a trigger signal is detected, the LFO2 will reset the waveform to the beginning of its cycle.

**TRIANGLE**

LFO2 triangle wave output. This output is internally connected to the LFO1's FM input

**SINE**

LFO2 sine wave output.

**SQUARE**

FO2 square wave output.

TRIMMERS AND POWER CONNECTORS



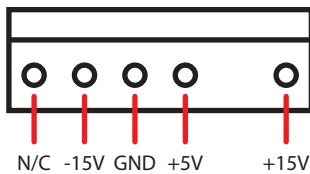
IMPORTANT !!!!

This module has two power connectors
(MU and MOTM).

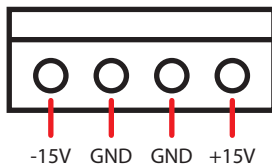
Only one is needed to power the
module. (MU or MOTM).

**Never connect both at the
same time.**

MU



MOTM



LFO2 base
frequency

LFO1 base
frequency

MU
power connector

MOTM
power connector



LFO1 - saw wave
symmetry

TECHNICAL DATA

Module Format : 5U, MU format (Synthesizers.com, Moog)

Module Width : 1 MU (Moog unit)

Module Depth : 52 mm (2,05 inches)

Power : +15V32@mA , -15V34@mA

Power connectors : MU, MOTM (4 pin)

