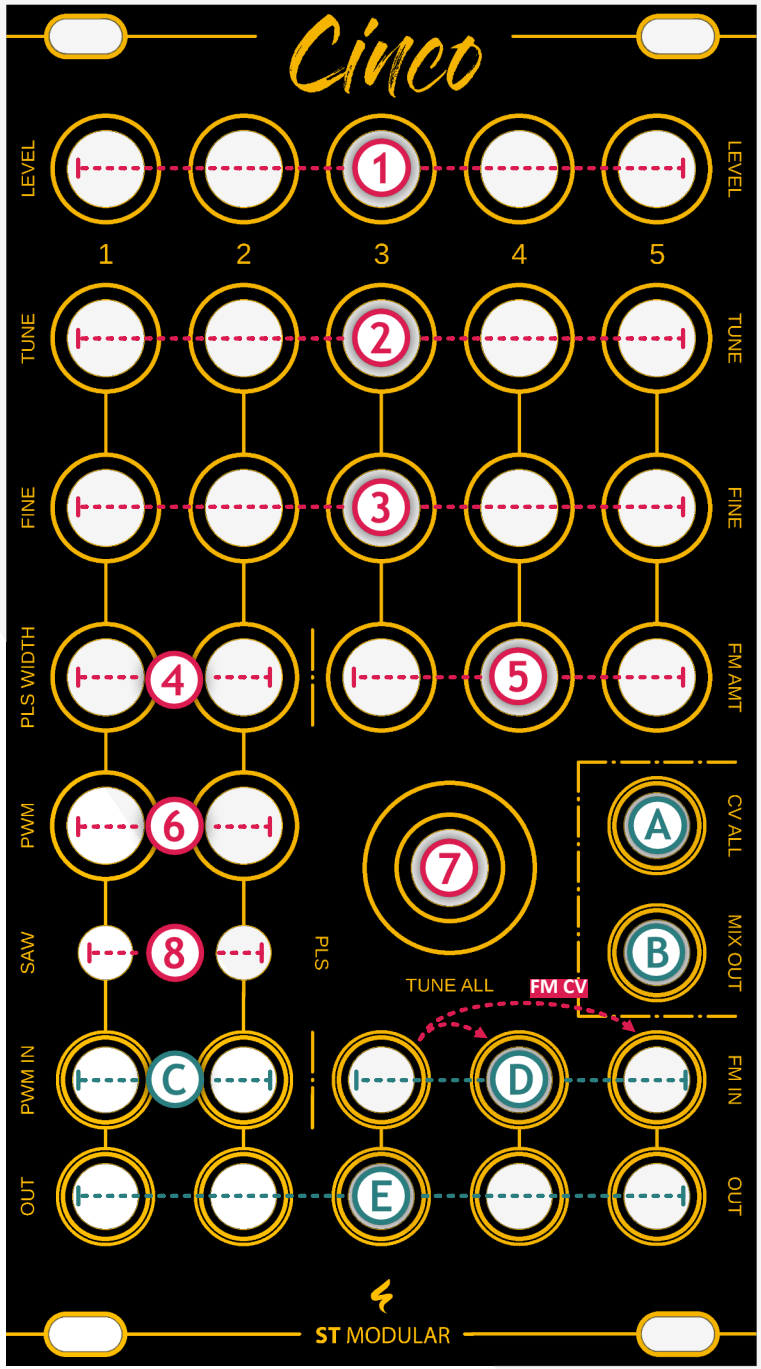
CINCO **QUICK START** GUIDE



CINCO

Is a five oscillator drone synthesizer with an internal mixer.

CONTROLS

1. **OSC LEVEL.** Control the level of each oscillator at the MIX OUT socket **(B)**.

2. **OSC TUNE.** Allows you to tune the pitch of the individual oscillators in larger increments. First oscillator offset is tuned slightly below, last oscillator slightly above the others by default.

3. **OSC FINE.** Allows you to fine tune the pitch of the individual oscillators in smaller increments.

4. **PULSE WIDTH.** Change the pulse width of the pulse wave for oscillators 1 and 2.

5. **FM AMT.** Determine the degree to which the CV applied to the FM IN inputs **(D)** influences the frequency of oscillators 3 to 5.

6. **PWM.** Determine the degree to which the CV applied to the PWM IN inputs **(C)** influences the pulse width of oscillators 1 and 2.

7. **TUNE ALL.** Tune all oscillators at once.

8. **SAW/PLS SWITCH.** Select oscillators 1 and 2 to produce either a sawtooth or pulse waveform.

INPUTS & OUTPUTS

A. **CV ALL**. Pitch CV input for controlling the pitch for all oscillators simultaneously. Roughly tracks 1V per octave.

B. **MIX OUT.** Outputs the mix of all oscillators in accordance to the LEVEL controls **(1)**.

C. **PWM IN.** CV input for controlling the pulse width of the pulse waveform of oscillators 1 and 2. The PWM pots **(6)** control the level of the applied CV.

D. **FM IN.** CV input for controlling the frequency of oscillators 3 to 5. The FM AMT controls **(6)** change the level of the applied CV. FM IN of oscillator 3 is normalized to the other FM inputs (can be disconnected by desoldering FM_N).

E. **OUT.** Individual outputs of oscillators 1 to 5. The LEVEL pots have no affect on these outputs. The individual outputs produce significantly higher volume levels compared to the MIX OUT.

Please note that FM AMT **(5)** and PWM **(6)** aren't attenuators, meaning full left rotation won't completely eliminate CV applied, but rather reduce it to a minimal level.

CALIBRATION

VOCT Trimmer.

1. Patch the individual out **(E)** of one oscillator to a tuner.
2. Apply pitch control voltage corresponding to the note C1 to the CV ALL input **(A)**.
3. Adjust TUNE **(2)** and FINE **(3)** control to bring the pitch as close to C1 as possible.
4. Play the notes C1 and C5 alternately.
5. While playing the notes, adjust the oscillator's VOCT trimmer on the back of the module until the pitch remains roughly consistent on both octaves.

QUESTIONS?

Please go to **www.st-modular.de** and post your question in the forum.