# Omnitone — Rosci

- [Manual PDF](#)

[Download the Rosci User Manual (PDF)](#)

# Rosci Eurorack Module Cheat Sheet (Rev 3)

## Overview

**Rosci** is a voltage-controlled digital oscillator module for Eurorack. It excels at generating customizable waveforms through point manipulation, harmonic enhancement, formant compression, and detuning. Can operate as a VCO (audio rate) or LFO (slow modulation).

## Controls & Features

### Panel Controls

- **Generate Button**
- Generates a new waveform.

- Used in tuning procedure (see below).

- **Knobs** (can be voltage controlled by CV inputs)

- **Complexity:** Number of waveform points (2–20).
- **Roundness:** Interpolation between points.
- **Harmonics:** Adds up to 6 harmonics.

- **Formants:** Compress waveform/mimics vowel sounds.
- **Detune:** Detunes up to a perfect fifth.
- **Coarse & Fine Tune:** Master pitch tuning.

## Jumpers (Rear)

- **VCO/LFO Mode Select:** Move jumper to switch between VCO (20Hz–20kHz) and LFO (0.016Hz–20Hz).

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# Inputs & Outputs

| Label | Type | Description | Voltage Range |
|---|---|---|---|
| V/OCT | Input | 1V/oct pitch input | 0V to +10V* |
| Complexity | Input | CV control, waveform pts | -10V to +10V |
| Roundness | Input | CV control, interpolation | -10V to +10V |
| Harmonics | Input | CV control, harmonics | -10V to +10V |
| Formants | Input | CV control, formant amt | -10V to +10V |
| Detune | Input | CV control, detune amt | -10V to +10V |
| OUT | Output | Main waveform out | [Typical Eurorack] |

* V/OCT: Typical tolerance ±3 cents.

- All CV inputs are mixed with knob positions.
- Full sweep of a parameter: 10V.
- Inputs saturate beyond ±10V.

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# Operation Guide

### Basic Use

1. **Patch Output:** Use the OUT jack for audio or modulation signal.
2. **Pitch:** Patch V/OCT for pitch tracking. Use 0V–10V; prefer 2V–8V for best tuning.
3. **Shape:** Shape sound with Complexity, Roundness, Harmonics, Formants, Detune (knobs or CV).
4. **Trigger:** Press Generate to create new waveform.

### Mode Switch (LFO/VCO)

1. **Power Off** your system.
2. **Move rear jumper** to "LFO" pins for LFO mode (0.016–20Hz) or "VCO" pins for VCO mode (20Hz–20kHz).
3. **Power On** to use.

### Tuning Procedure

1. Set Coarse/Fine tune to minimum.
2. Hold Generate on power up → lights flash red.
3. Send V/OCT 2V (not 0V/10V), press Generate.
4. Lights flash green. Send 2V higher, press Generate.
5. Lights turn multi-color; module exits tuning.

# Safety Notes

- Always power off your case when installing or moving Rosci.
- Red stripe on power cable to -12V.

# Contact & Support

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Generated With Eurorack Processor