

Erica Synths – Octasource

- [Manual PDF](#)

[Erica Synths Black Octasource Manual \(PDF\)](#)

Erica Synths Black Octasource Cheat Sheet

Overview

The **Erica Synths Black Octasource** is an ultra-flexible LFO with 8 simultaneous outputs, advanced phase and waveform morphing, and extensive CV control. It can be the “heart and brain” of modulation in your modular system.

Controls, Inputs & Outputs

Front Panel Diagram (Reference)

- **RATE (Large Knob):** Manual LFO speed control. At 12 o'clock, freezes current values on outputs. CW increases LFO rate and shifts phase CW; CCW increases rate and shifts phase CCW.
- **WAVE (Knob):** Selects principal waveforms and morphs between them. In MULTI mode, shifts waves between outputs.
- **MULTI/SINGLE (Toggle Switch):**
- **MULTI:** 8 different waves on 8 outputs, WAVE knob shifts assignment.

- **SINGLE:** Same wave on all outputs, phase-shifted (by 45° steps or CV control).
- **FM LEVEL (Small Knob):** Attenuates FM control voltage (see FM IN).
- **OUTPUT LEDs:** Bi-color, display signal level and output mode.
- **SYNC (Jack):** Clock input to sync LFO frequency externally (disables RATE except at freeze).
- **FM IN (Jack):** Frequency modulation input (-5V to +5V).
- **WAVE CV (Jack):** Voltage control of waveform selection/morphing (-5V to +5V).
- **PHASE CV (Jack):** Voltage control of phase shifting per output (-5V to +5V).
- **OUTPUTS (8x Jacks):** Phase shifted/unshifted LFO outputs (-5V to +5V bipolar, switchable to 0V to +5V unipolar).

Input/Output Voltage Ranges

Jack	Function	Voltage Range
SYNC	LFO Sync Input	Clock / Trigger
FM IN	LFO FM Control Voltage	-5V to +5V
WAVE CV	Wave Selection CV	-5V to +5V
PHASE CV	Phase Shift CV	-5V to +5V
OUTPUTS	LFO Output (default)	-5V to +5V (bipolar) 0V to +5V (unipolar, see below)

Features Reference

- **LFO Rate:** 0.03 Hz – 30 Hz
- **Output Amplitude:** 10Vpp (bipolar: -5V to +5V, unipolar: 0V to +5V selectable, see below)

- **CV Inputs:** All full sweep at $\pm 5V$
- **8 Simultaneous Outputs:** Each 45° phase apart (or 8 different waveforms in MULTI mode)
- **Waveforms:** Sine, ramp, inverted absolute sine, triangle, pulse, absolute sine, saw, S&H (plus morphing between)
- **Sync:** External clock input for LFO rate
- **Freeze:** Set RATE to 12 o'clock in Sync mode or for output freeze
- **LED Indicators:** Show signal amplitude and mode
- **Phase, Wave, Rate:** All manually and CV controllable

Unipolar/Bipolar Output Mode

- **Switching Output Mode:**
 - Set RATE knob to 12 o'clock ("freeze" position).
 - Flip the MULTI/SINGLE switch **6 times**.
 - **Unipolar (0V to +5V):** All LEDs blink same color.
 - **Bipolar (default, -5V to +5V):** LEDs blink two colors.

Safety & Other Notes

- DO NOT use in wet or humid environments.
- DO NOT expose to temps above $+50^\circ C$ or below $-20^\circ C$.
- Only ship in original packaging for warranty/repair.

Quick Workflow

1. **Patch Outputs:** Use any of the 8 outputs for LFO modulation.
2. **Rate:** Adjust main speed with RATE knob or apply clock to SYNC jack for external sync.
3. **Waveform:** Manually select/morph between waveforms with WAVE knob or via CV.
4. **Phase:** Control phase rotation per output with knob or CV.
5. **MULTI/SINGLE:** Choose mode for "8 different" waves or "1 shifted wave."

6. **FM/Modulation:** Patch into FM IN for CV LFO frequency control, attenuate with FM LEVEL.

Useful Links

- [Erica Synths Black Octasource Manual PDF](#)
- [Generated With Eurorack Processor](#)