

Make Noise – Mimeophon

- [Manual PDF](#)
-

[Mimeophon Manual PDF](#)

Make Noise Soundhack Mimeophon Cheat Sheet

Stereo, multi-zone, color audio repeater (echo, delay, looping, flanger, Karplus-Strong, chorus, more).

Signal Flow Overview

- **Inputs:** L (mono), R (stereo), CV control inputs
 - **Outputs:** L, R, trigger rate out
-

Front Panel I/O, Knobs, Buttons

Audio Inputs/Outputs

| Jack | Function | Voltage Range |
|----------------|--|---------------|
| L (Mono) In | Left channel/mono audio input (right is normalled to left) | ~10Vpp |
| R In | Right channel audio input | ~10Vpp |

| Jack | Function | Voltage Range |
|-------|----------------------------|---------------|
| L Out | Left channel audio output | ~10Vpp |
| R Out | Right channel audio output | ~10Vpp |

Main Knobs & Associated CVs

| Panel Control | Description | CV Input | CV Range | CV Notes |
|---------------|---|------------|----------|----------------------|
| Mix | Dry/Wet blend or attenuates Mix CV if patched | Mix CV | 0–8V | Normalised to 8V |
| Repeats | Number of repeats, sets repeat start when HOLD is engaged | Repeats CV | 0–5V DC | |
| Halo | Smears repeats in stereo space | Halo CV | 0–5V DC | |
| Zone | Selects delay/echo length zone (see "Zones" below) | Zone CV | 0–5V DC | Bipolar attenuverter |
| Color | Timbre/character (tape>digital>oilcan>dark/warm/BBD/etc.) | Color CV | 0–5V DC | Bipolar attenuverter |
| Rate | Frequency (time) of repeats within current zone | Rate CV | 0–5V DC | Bipolar attenuverter |
| μRate (micro) | Dedicated Doppler modulation (1V/oct in Zone 0; linear 1–7) | μRate In | ±3V | Unity gain |

Time/Sync/Reverse/Loop Controls

| Label | Type | Function | IO Type | Voltage/Usage |
|-----------------|---------------|--|----------|----------------------------|
| HOLD | Button/ In | Freezes the audio buffer (indefinite repeats; non-destructive) | Gate In | $\geq 2.5V$ = ON |
| REPEATS | Knob | Sets # of repeats (1 to ∞) / start during HOLD | - | - |
| FLIP | Button/ In | Reverses audio buffer/ repeats playback (real-time or "Karplus" style in short zones) | Gate In | $\geq 2.5V$ = ON/flip |
| TEMPO | In | External clock input (for tempo-synced delays) | Clock In | $\geq 2.5V$, 0.25–50Hz |
| RATE OUT | Out | Triggers/clock at current repeat rate, both L + R (OR'ed) | Gate Out | 0V/8V pulses |
| SKEW | Button | Skews L/R times/ panning; hold to enable Ping Pong/Swap | - | - |

Core Features

Mix Section

- Set incoming signal (dry) vs repeated (wet) echoes
- When Mix CV is patched, knob acts as attenuator for the CV signal

Zones

- Choose delay time range (Zone 0: <2ms, to Zone 7: up to 42s)
- Instant switching: no Doppler (pitch) shift!
- Delay ranges overlap, moving up reveals ever-larger history

Rate

- Change repeat time *within zone* (Doppler pitch with feedback, unless clocked)
- Rate CV input modulates this; microRate is for small "vibrato/flange/chorus" mod

Skew & Ping Pong

- **Skew:** Offsets L/R repeat times in opposite directions for stereo spread
- **Ping Pong:** (Hold Skew, Zone window flashes) Sums input mono, bounces repeats L/R
- **Swap:** If Skew ON, holding also swaps feedback paths for phasey stereo

Flip

- Reverse the buffer for "reverse" playback, or protonic buffer-distortion in short zones

Hold

- Freezes the buffer/loop, making it "infinite"
- Repeats knob while held sets *start point* in loop

Color & Halo

- **Color:** Alters echo timbre from dark/dirty to clean/bright
- **Halo:** Adds stereo spatial "smear" to echoes, especially dramatic at high settings

Tempo Sync

- Use TEMPO input for syncing delays to external clock
 - Rate = clock division/multiplier in any zone; no pitch shift when modulating
 - After two tempo pulses, module keeps timing till Rate knob is moved
-

Voltage Controlled Inputs/Outputs

| CV Input/ Output | Function | Range |
|----------------------|---|--------------------------|
| Mix CV | Wet/dry blend | 0–8 V |
| Repeats CV | Number of repeats | 0–5 V |
| Halo CV | Stereo smear | 0–5 V |
| Zone CV | Delay time zone select | 0–5 V |
| Color CV | Echo timbre | 0–5 V |
| Rate CV | Delay/repeat speed | 0–5 V |
| μ Rate In | Micro pitch/chorus/flange/vibrato | ± 3 V |
| TEMPO In | External clock | ≥ 2.5 V / 0.25–50Hz |
| HOLD, FLIP Inputs | Trigger/gate for Hold/Flip | ≥ 2.5 V = on |
| RATE OUT | Clock/trigger at repeat rate (OR'ed L/R) | 0 or 8V pulse |

Input Gain Level / Hidden Function

- **Adjustment:** Hold FLIP + HOLD
 - **Zone Window:**
 - Blue = -3dB
 - Green = 0dB (unity, default)
 - Orange = +3dB
 - Red = +6dB
- (Release both buttons to confirm selection.)
-

Quick Patch Ideas

- **Tempo Echo:** Tempo in → Z4/5, set Mix/Repeats to mid, Skew for stereo.
 - **Dub Delay:** Z3–5, Halo/Color up, hand-ride Rate/Repeats for feedback washes.
 - **Karplus/Flange:** Z0, fast triggers in, μ Rate with pitch, tweak Color/Halo for metallics.
 - **Chorus:** Z1–2, slow LFO to μ Rate, Skew ON, high Halo/Repeats.
 - **Reverse:** Flip ON, Z4 (vocals) for "reversed" speech at native cadence.
 - **Sampler:** Use Hold to freeze, Zone to browse, Repeats shifts start point.
 - **Sound-on-Sound:** High Repeats/Hold, manipulate Zone/Color for layered textures.
-

Firmware Notes

- Recent firmwares add buffer clear (mp70), saves input gain on power cycle (mp82), lower noise floor (mp86).
 - Check manual/website for current updates and installation: [Make Noise Firmware](#)
-

More Resources

- [Mimeophon Manual PDF](#)
 - [Generated With Eurorack Processor](#)
-