

# Make Noise — Mimeophon

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## Make Noise Soundhack Mimeophon Cheat Sheet

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

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### Signal Flow Overview

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- **Inputs:** L (mono), R (stereo), CV control inputs
  - **Outputs:** L, R, trigger rate out
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### Front Panel I/O, Knobs, Buttons

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

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## 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 phase-y 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

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## 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
μRate 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

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## Input Gain Level / Hidden Function

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

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- **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,  $\mu$ Rate with pitch, tweak Color/Halo for metallics.
  - **Chorus:** Z1–2, slow LFO to  $\mu$ 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.
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## Firmware Notes

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- 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](#)
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## More Resources

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