

2hp – Freez

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Creative Patch Ideas for 2hp Freez

The **2hp Freez** is a compact, voltage-controllable locked looper for Eurorack, with sample rate reduction and buffer manipulation capabilities. With these tools, you can turn any incoming audio into granular textures, glitchy loops, or time-warped fragments.

Below are some creative ways to integrate Freez with other modules:

1. Granular Textures with Random CV

Combine with: Random voltage generators (e.g. *Mutable Instruments Marbles*, *ALM Pamela's New Workout*), LFOs, or stepped CV sequencers (e.g. *Make Noise Tempi*).

- **How:** Patch random or slowly evolving CV to the **SIZE** and **S. RATE** CV inputs.
- **Result:** The buffer length and sample rate change in unpredictable ways, creating constantly morphing granular sounds and shifty digital artifacts.

2. Rhythmic Glitches and Beat Repeat

Combine with: Sequencers or clock sources (e.g. *Intellijel Metropolis*, *Arturia Keystep Pro*).

- **How:** Send gate or clock signals into the **TRIG** input, synced to your drum machine or sequencer patterns.
- **Result:** Locks audio snippets in time with your rhythm, creating stutter or beat-repeat effects on command.

3. Live Audio Dicing and Stutter FX

Combine with: Drum modules, sampled voices, or any rhythmic audio source (*Mutable Instruments Plaits*, classic drum modules).

- **How:** Route audio through Freez, and use a footswitch, manual button, or controller for instant freezes.
- **Result:** Stutter or cut-up effects on live audio (great for live electronic improvisation or experimental performances).

4. Voltage-Controlled Bit Crusher

Combine with: Fast LFOs, audio-rate modulation sources (*Make Noise Maths*, *ALM Busy Circuits Pip Slope*).

- **How:** Modulate **S. RATE** with CV at fast or even audio rates.
- **Result:** Real-time destruction of incoming audio, with wild sample-rate modulation and gritty timbre.

5. Dual-Buffer FX with Stereo or Parallel Audio

Combine with: An additional looping/freezer module (*4ms Dual Looping Delay*, *Qu-Bit Nebulae*), mixer, or splitter.

- **How:** Freeze one channel with Freez, and another with a different module; switch between, pan, or blend.

- **Result:** Create complex, layered textures, transitioning between two mangled buffers, suitable for immersive soundscapes.

6. CV Looping/Processing

Combine with: Envelope followers or CV-to-audio interfaces (*Doepfer A-119, ALM S.B.G.*).

- **How:** Use Freez to lock and process CV signals converted to audio-rate, then re-convert them back to CV.
- **Result:** Highly experimental stepped or "sampled" CV sources for unpredictable pitch, filter, or VCA modulation.

7. Karplus-Strong/Plucked Synthesis Modifier

Combine with: String synthesis voices (*Mutable Instruments Rings, 2hp Pluck*).

- **How:** Insert Freez after a physical modeling module and freeze very short snippets.
- **Result:** Generates metallic, atonal, or glitched variations of "plucked" sounds.

8. Formant & Vocal FX

Combine with: Microphone preamp module, vocal processor, or contact mic input (*Doepfer A-119, Eurorack mic preamp*).

- **How:** Use your voice or acoustic input as source material; freeze and manipulate size & rate.
- **Result:** Makes robotic, grainy vocal effects, especially interesting with external CV modulation of buffer size/rate for evolving textures.

Module Recommendations

- **Random/Chaos CV:** Mutable Instruments Marbles, WMD Geiger Counter (*CV output*), Make Noise Maths.
- **LFO/Envelope:** Intellijel Quadra, ALM Pamela's New Workout, Doepfer A-145 LFO.
- **Sequencer/Gate Generator:** Make Noise Tempi, Arturia Beatstep Pro.
- **Mixer/Utilities:** Happy Nerding 3x MIA, Mutable Instruments Shades.

Experiment with placement in your signal chain: immediately after drum sources for glitchy beats, or after a rich pad for ambient textures. The small size of Freez means it easily fits into most racks and opens up a world of timbral and rhythmic manipulation. The CV and trigger options make it uniquely performable and responsive to your modular system.

Generated With Eurorack Processor