

2hp – Grain

- [Manual PDF](#)
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2hp Grain Manual (PDF)

(Note: Official PDF manual can be found at manufacturer's website. The manual images and text were provided above.)

2hp Grain – Cheat Sheet

A **high-fidelity granular audio processor** in 2hp. Generates clouds, microsound, textures from any input.

Full CV control over all parameters for flexible modulation and creative patching.

Jacks & Controls Reference

#	Label	Type	Function	Voltage Range
1	IN	Jack	Audio Input	Audio Signal
2	DENS	Jack	Density CV (Grain generation)	-5V to +5V
3	DENS	Knob	Density Knob: Grain Gen. mode/speed	N/A
4	MIX	Jack	Wet/Dry Mix CV	-5V to +5V
5	MIX	Knob	Wet/Dry Mix Knob	N/A

#	Label	Type	Function	Voltage Range
6	V/ OCT	Jack	1V/Oct pitch CV for grains	-1.5V to +5.5V
7	FREQ	Knob	Pitch Shift/Grain Size+Speed	N/A
8	OUT	Jack	Audio Output	Audio Signal

Control & CV Details

- **DENS (Density) Knob:**
 - Left: Periodic grains, speed increases leftward.
 - Center: No grains generated.
 - Right: Stochastic grains, speed increases rightward.
- **Also affected by FREQ control.**
- **DENS CV:**
 - Controls granulization rate/position.
- **Range:** -5V to +5V
- **MIX Knob:**
 - Left: 100% Dry (input),
 - Right: 100% Wet (granular),
 - Continuously blends.
- **MIX CV:**
 - Controls mix between input and granular output.
- **Range:** -5V to +5V
- **V/OCT:**

- 1V/oct tracking for grains' pitch.
 - **Range:** -1.5V to +5.5V
 - **FREQ (Knob):**
 - Left: Pitch shifted down 4 octaves
 - Center: No pitch shift
 - Right: Pitch shifted up 4 octaves
 - **Also affects grain size and generation speed: higher = smaller/faster grains**
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Quick Start Patch

1. Patch audio source to **IN**.
 2. Patch **OUT** to mixer/output.
 3. Set **MIX** (knob) center for equal blend; left for dry, right for granular.
 4. Use **DENS** to set grain activity.
 5. Tweak **FREQ** (and optionally sequence with **V/OCT**) for pitch and grain character.
 6. Animate parameters with CV sources for evolving textures.
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Specs

- **Width:** 2hp
 - **Depth:** 42mm
 - **Current:** +12V: 78mA / -12V: 9mA
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