WMD SSF — Facture

- [Manual PDF](#)

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WMD FRACTURE - CHEAT SHEET

Multi-Particle Percussion Synthesizer

Quickstart

- TRIG input = Play burst (applause, claps, snare, etc.)
- Use SURFACE knob to select "what's being hit" (23 types).
- Tweak DENSITY to increase/reduce the amount of particles.
- DECAY controls burst length (pair with TAIL for shape).
- PUNCH and FREQ sculpt/filter/tune the burst.
- SPREAD randomizes pitch and panning.
- REVERB for additional space.
- INF: Sustains particle stream until Density is changed.

Controls At-A-Glance

Knobs

Name	Function	CV Input (Range)
DENSITY	Particle generation rate.	0–5V

Name	Function	CV Input (Range)
SURFACE	Selects among 23 particle/sample types.	0−5V
DECAY	Burst length (with TAIL for shape).	0−5V
FREQ	Alters burst spectrum/pitch or bandpass filter.	0−5V
SPREAD	Randomizes pitch + panning.	0−5V

Toggles/Switches

- **TAIL** (3 positions): Selects amplitude/probability/combination for burst shape
  - I: Amplitude envelope
  - II: Amplitude & probability
  - III: Probability only
- **PUNCH** (3 positions): Selects filter/pitch processing
  - I: Bandpass post-engine
  - II: Filter + pitch (FREQ = both)
  - III: Parallel bandpass & pitch (extra punch)
- **INF (Infinite)**: Hold for endless particle stream. Press TRIG or DECAY to "burst" density.

Other Controls

- **REVERB**: Toggles between Room and Hall reverb types.
- **TRIG**: Fires a burst.
- **ACC**: Accents burst (with high TICK).
- **TICK**: Triggers single particle sample.

Jacks Reference

Inputs

Jack	Function	Impedance	Voltage / Type
TRIG	Burst trigger input	100kΩ	Gate, 2V Schmitt Trigger
ACC	Accent input	100kΩ	Gate
TICK	Single particle trigger	100kΩ	Gate, 2V Schmitt Trigger
DENSITY	Controls Density	100kΩ	0−5V CV
SURFACE	Selects Surface/sample type	100kΩ	0−5V CV
DECAY	Controls Decay	100kΩ	0−5V CV
FREQ	Controls frequency/filter	100kΩ	0−5V CV
PITCH	Pitch control (overrides FREQ pitch section)	100kΩ	0−5V CV
SPREAD	Controls Spread	100kΩ	0−5V CV

Outputs

Jack	Function	Impedance	Voltage
OUT L	Left audio/Mono	220Ω	20Vpp max
OUT R	Right audio	220Ω	20Vpp max

Essential Notes

- All CV inputs **sum with the corresponding knob**.
- Burst pitch variance & panning: Use SPREAD and/or PITCH input.
- PITCH input disables FREQ's pitch effect—use for full external control.
- All triggers/gates fire on rising edge above 2V.
- Use OUT L alone for mono operation.
- Max audio output voltage: **20Vpp**.
- Latency: **≤1.0ms**

Example Patch (Claps → Applause)

1. Patch gate from sequencer to TRIG.
2. Patch L+R OUT to two mixer channels.
3. Set SURFACE to center for classic claps. DENSITY low-medium, short DECAY.
4. Crank DENSITY + DECAY + SPREAD for crowd applause. Try INF mode!

Specs

- Size: 8hp, 38mm deep (with cables)
- Power: +61mA / -17mA

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