

WMD SSF — Crater

- [Manual PDF](#)
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[Crater Manual PDF \(image reference\)](#)

WMD Crater – Eurorack Cheat Sheet

Category: Hybrid Kick Drum Synth Voice

Size: 8hp

Audio Output Range: 20Vpp

CV Inputs Impedance: 100k Ω

Panel Controls

Knobs

- **PITCH:** Sets kick oscillator pitch (5Hz–100Hz)
- **SATURATION:** Controls boost & saturation *before* clipping; accepts CV $\pm 5V$
- **CLICK LEVEL:** Click volume
- **CLICK TIMBRE:** Selects among 14 click samples, each with noise tail
- **DECAY:** Kick oscillator decay time (affects tail; sustains while TRIGGER is high, decays when released)
- **CLICK DECAY:** Click/noise tail decay time
- **SUSTAIN:** Sets sustain level of oscillator (use gates or sequences for basslines)

- **PITCH ENVELOPE – AMOUNT:** Depth of pitch envelope applied to the oscillator
- **PITCH ENVELOPE – DECAY:** Pitch envelope decay

Toggles / Switches

- **CLIPPING (3-position toggle):**
 - Left: Off (no clipping)
 - Middle: Moderate clipping, fades to clean
 - Right: Max (diode) clipping—hard distortion
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Inputs

Jack	Type	Details	Voltage Range / Thresh.
TRIGGER	Gate In	Triggers the kick	2V threshold (Schmitt Trigger)
ACCENT	Gate In	Triggers accent (plug in alone for always-accented)	2V threshold
1V/OCT	CV In (pitch)	Standard pitch tracking (kick FM / melodies)	1V/octave
SATURATION CV	CV In	Modulates saturation (attenuates signal with negative CV)	±5V typical
CLICK LVL CV	CV In	Controls click level remotely	±5V typical
DECAY CV	CV In (kick)	Modulates kick decay time	±5V typical

Jack	Type	Details	Voltage Range / Thresh.
CLICK DECAY CV	CV In	Click/noise tail decay modulation	±5V typical
SUSTAIN CV	CV In	Modulates sustain level	±5V typical
PITCH ENV DECAY CV	CV In	Modulates pitch envelope decay	±5V typical
PITCH ENV AMOUNT CV	CV In	Modulates pitch envelope amount	±5V typical

Outputs

Jack	Type	Details	Voltage Range
AUDIO OUT	Audio Out	Main output; kick, click	20Vpp max, 220Ω

Usage Tips

- **LED Display:** Shows visual impact of kick
- **SUSTAIN for Basslines:** Hold triggers/gates for sustained 808-style bass; sequence 1V/oct for melodic kicks
- **Accent Input:** Plug in for louder or modified kicks, or use for always-accented hits
- **CLIPPING Modes:** Middle for moderate, right for max/gabber, left for clean
- **CV Modulation:** Most controls have CV inputs (±5V recommended); respond to external envelopes, LFOs, or sequencers

- **SATURATION Order:** Saturation occurs before clipping; use to shape distortion response
 - **CLICK Section:** Adjust decay and timbre for punchy or metallic attacks
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Reference Specs

- **Size:** 8hp
 - **Depth:** (with cables)
 - **CV Inputs:** 100k Ω impedance
 - **Gate Inputs:** 100k Ω , 2V threshold (Schmitt Trigger)
 - **Audio Output:** 220 Ω , 20Vpp max
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