

After Later Audio – Ornament and Crime

- [Manual PDF](#)

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# Ornament & Crime v1.3 – Eurorack Cheat Sheet
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*[Full Manual (PDF)](https://ornament-and-crim.me/user-manual-v1\_3/)
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## Quickstart Overview
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The Ornament & Crime ("o_C") is a multifunction eurorack module. It

- **4 CV inputs (CV1–CV4):** $\pm 10V$ (recommended $\pm 5V$ typical), 12-bit
- **4 Trigger/gate inputs (TR1–TR4):** 0–5V triggers/gates/high=low
- **4 Outputs (A–D):** -3V to +6V range, 16-bit DAC precision

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## Panel & Controls
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### Encoders
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- **Left Encoder:**
 - App-specific (often: channel select, note select, root note, etc.)
 - In scale/sequence editors: move cursor/select item
 - Press: select/apply, activate, toggle scale, channel, or feature
 - Long Press: app-specific reset, copy, or clear, or enter alternate mode
- **Right Encoder:**
 - Scroll menus/settings, adjust values (in edit mode)
 - Press: Toggles selection vs. value edit mode

- Long Press: Enter app selection menu (from anywhere)

Buttons

- **Up Button**:

- App-specific, often transpose/octave up, next slot, or increment
- Long Press: Enter screensaver from any mode

- **Down Button**:

- App-specific, often transpose/octave down, previous slot, or decrement
- Long Press: Reset scale/chord mask, alternate behaviors

Display

- **OLED Display (128x64)**: Text and graphics for menu navigation, status, and controls.

Jack Reference (Typical/Default Mappings)

Label	Type	Typical Function(s)
CV1	Input	External CV in (quantizer, root note, freq, etc)
CV2	Input	Ext CV in or assignable (transpose, mask, duration)
CV3	Input	Ext CV in or assignable (scale, step, phase, etc)
CV4	Input	Ext CV in or assignable (various modulations)
TR1	Input	Trigger/gate input (clock, reset, step, sample, etc)
TR2	Input	Trig/gate, app-specific (freeze, chord trig, audio)
TR3	Input	Trig/gate, app-specific (step, arpeggiator, mod)
TR4	Input	Trig/gate, app-specific (reset, metronome, freq)
A	Output	Quantized CV, sequencer output, LFO, envelope, etc
B	Output	As above, depends on app (eg, 2nd output, triad)
C	Output	As above
D	Output	As above

Note: Inputs and outputs are remapped according to app.

Navigation & App Management

- **Startup:**
 - Hold **Left Encoder**: Enter calibration
 - Hold **Right Encoder**: App selection menu
 - **Normal boot**: Last saved app
- **App Selection:** Long-press Right Encoder anytime; turn to select
- **Saving**: In app select menu, long-press Right Encoder to save
- **Reset to Defaults**: Hold both Up + Down buttons during startup

Main Apps & What They Do (Summary)

App	Purpose (quick)
CopierMaschine	4-stage quantized digital shift register ASR
Harrington 1200	Chord generator, Riemannian Tonnetz
Automatonnetz	Chord/melody vector sequencer on 5x5 grid
Quantermain	Quad channel quantizer, editable scales
Meta-Q	Dual quantizer w/ scale slots & sequencing
Quadraturia	4-channel wavetable quadrature LFO
Low-rents	Lorenz & Rössler chaotic LFOs
Piqued	Quad voltage-controlled envelope generator
Sequins	2x(4x16) step sequencer, seq chaining, CV
Dialectic Ping Pong	Quad "bouncing ball" env
Viznutcracker,sweet	Bytebeat signal/sequence generator
Acid Curds	Chord quantizer/sequencer
References	Utility: ref voltages, tuning, bpm, calibration

Control Reference

Knobs/Encoders

- **Left Encoder (turn):** Channel/note/freq/grid navigation, value change
- **Left Encoder (press):** Select/activate/channel toggle
- **Left Encoder (long):** App-defined, often reset/clear/copy (see notes)
- **Right Encoder (turn):** Menu param navigation or value change/edit
- **Right Encoder (press):** Toggle navigation/edit mode, or enter/exit
- **Right Encoder (long):** Enter app menu
- **Both (Up+Down during boot):** Factory reset of app settings

Buttons

- **Up (press):** Transpose/octave up, next (slot/sequence)
- **Down (press):** Transpose/octave down, prev (slot/sequence)
- **Up (long):** Screensaver (graphic feedback)
- **Down (long):** Reset scale/chord mask (in editors), app-dependent

Voltage Ranges

- **Inputs (CV):** $\pm 10V$. Most useful musical range: $\pm 5V$.
- **Inputs (Trigger):** Threshold $\approx 1.5V$, accepts typical 5V gates.
- **Outputs (CV):** -3V to +6V (not symmetric bipolar; level-shifted)

Special Notes

- **All inputs and outputs are re-mapped per app and often per channel.**
- **All settings are saved together via app menu > long Right Encoder.**
- **Scaling, quantization, and tuning options abound (microtonal, B**
- **DAC update rate ≈ 16.7 kHz. Minor audible aliasing can occur for**
- **OLED and DAC share data bus: audio quality not primary use-case**

Useful Links

- [Manual (HTML version)](<https://ornament-and-cri.me/user-manual-v1.html>)

- [Ornament & Crime Extended Firmware on Github](<https://github.com>)

[Generated With Eurorack Processor](<https://github.com/nstarke/euro>)

Let me know if you want separate app-by-app summaries or have deeper patching questions!