

# ADDAC Systems – ADDAC-112 Granular Looper

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- [Manual PDF](#)
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Certainly! Here's a concise **cheat sheet** for the **ADDAC112 VC Looper & Granular Processor** Eurorack module, distilled from the manual you provided.

*(Images attached above for visual reference, but here's a written summary.)*

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## ADDAC112 VC Looper & Granular Processor Cheat Sheet

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### Manual PDF:

[ADDAC112 User's Guide PDF](#) (source: [addacsystem.com](#))

*(Direct link to firmware, see [addacsystem.com](#) for updated docs.)*

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## Module Overview

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- **Type:** Stereo Looper, Granular Processor, & Real-time Sample Manipulator
  - **Sections:** Looper Engine, Granular Engine, Output Mixer
  - **Power:** 240mA @ +12V / 70mA @ -12V / 32HP+13HP / 4.5cm deep
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# Inputs / Outputs (I/O) Summary

## Audio Inputs

| Jack Label        | Description                                | Signal Level              |
|-------------------|--|---------------------------|
| IN 1 (Mono/<br>L) | Mono input (synth or line)                 | 10Vpp Synth,<br>2Vpp Line |
| IN 2 (Mono/<br>R) | Mono (normalled to IN 1 when<br>unpatched) | 10Vpp Synth,<br>2Vpp Line |
| STEREO LINE<br>IN | Stereo, line-level input                   | 2Vpp Line                 |

## Audio Outputs

| Jack Label   | Description                            |
|--------------|--|
| Left Output  | Master stereo (L)                      |
| Right Output | Master stereo (R)                      |
| Mono Output  | Sum of L+R                             |
| INS MONO OUT | Mixed input: all inputs summed to mono |

## CV & Trigger Inputs (*All CV in: ±5V range typical, 0-10V functional, see notes*)

- All front panel knob parameters have dedicated CV inputs
  - (Position, Deviation, Length, etc. – see controls list)
- Trigger Inputs:
  - Playback and recording controls (NEW REC, REC, PLAY, STOP, FORWARD/REVERSE)
  - Clock input (in 'Clocked Mode' via STOP jack)

# Panel Controls Reference

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## Knobs & Sliders (Per section; each has CV in)

- **Input Stage:**
- INPUT GAIN
- **Looper:**
- LOOP VOLUME
- LOOP SELECT
- LOOP PITCH
- OVERDUB DECAY
- REC PROBABILITY
- REC DELAY (and DELAY DEVIATION)
- **Granular:**
- GRAINS ACTIVE
- POSITION
- POSITION DEVIATION
- PLAY LENGTH
- LENGTH DEVIATION
- GRAIN LOOP DELAY & DEVIATION
- GRAIN DIRECTION
- GRAIN PITCH
- VOLUME MIN / DEVIATION
- GRAIN PANNING
- ATTACK / DECAY (grain envelope)
- GRAINS VOLUME
- GRAINS FEEDBACK
- **Output Mixer:**
- DRY VOLUME
- LOOP VOLUME
- GRAINS VOLUME

## Buttons (Looper Control)

- **REC NEW** – Start new loop (variable/fixed length)

- **REC** – Overdub current loop
- **PLAY** – Play/stop/retrigger loop
- **STOP** – Stop playback/recording or quantize triggers in 'Clocked' mode
- **CLEAR** – Clear loop (long press: erase from list)
- **MENU Encoder** – Enter/confirm menu navigation

## Toggles & Switches

- **RETRIG/PAUSE:** Playhead triggers from start or toggles pause.
  - **SYNC REC/UNSYNC:** Rec head follows or is independent from playhead.
  - **REC MODE:** [STOP / LOOP / OVERDUB] - Determines end of rec behavior.
  - **FORWARD/REVERSE:** Loop playback direction.
  - **REPEAT MODE:** Grain repeat probability vs. number of repeats.
  - **SIZE DIVISION:** [FREE/8/16] for granular quantization.
  - **Various Menu Options:** (Quantize, Samplerate, Bit Depth, Pitch Tracking, Clocked Mode, etc.)
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## OLED Screen

- Shows: Looper state, Levels, Quantization, # Grains, Loop selection, Pitch, Panning, Envelope, etc.
  - Info & Settings displayed via MENU
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## SD Card Handling

- Used for storing/loading Banks (presets/loops)
- Up to 99 presets & 99 loops per bank
- Max 30MB per bank
- **Format:** FAT16 recommended
- **File structure:** /BANK[n]/WAV/\* .wav
- **Save current bank before power down to keep data!**

- Loops as .WAV files, clean headers/no metadata recommended  
(use MediaHuman or similar if needed)
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## Voltage Control Reference

| CV Input  | Function   | Range              |
|---|--|--------------------|
| All parameter CV In   | Modulates panel                                  | 0-10V*             |
| Trigger In (REC, PLAY, etc.)  | Action   | Gate/<br>Trig: >2V |
| CV Out?   | None (except INS<br>MONO OUT - audio,<br>not CV) |                    |
| > * Typical Eurorack 0-10V. Not officially specified in manual, but common for ADDAC. |  |                    |

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## Operating Steps (Quickstart)

1. **Audio In/Out:** Patch input, set INPUT GAIN until LED indicates healthy level. Patch output.
  2. **Create/Load Bank:** MENU > BANK > NEW/LOAD.
  3. **Record Loops:**
    - [NEW REC] to record, press [REC]/[PLAY]/[STOP] to finish.
    - Select via [LOOP SELECT] or CV.
  4. **Granular Processing:** Engage grains with GRAINS VOLUME, adjust granular controls.
  5. **Save:** MENU > BANK > SAVE to SD before switching off.
  6. **Navigate Presets/Loops:** Use [PRESET SELECT]/[LOOP SELECT] knobs or CV.
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## Expert Features

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- **Quantized recording/playback & scales (chromatic, major, etc.)**
  - **Menu controls:** Sample rate, bit depth, mono/stereo, overdub origin (play/rec/both), pitch range, etc.
  - **Granular randomization/deviation via second knob per parameter**
  - **Normalize loop volume:** MENU + [REC]
  - **Duplicate loop:** MENU + [NEW REC]
  - **Resize loop:** MENU + [CLEAR BUFFER]
  - **Firmware update:** via rear USB and Chrome browser DFU tool
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**For more in-depth reference, see the original manual!**

**Manual download:**

[ADDAC112 User's Guide PDF](#)

[Official ADDAC112 product page \(for updates\)](#)

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*Generated With [Eurorack Processor](#)*