

ADDAC Systems — ADDAC-112 Granular Looper

- [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.)

ADDAC112 VC Looper & Granular Processor Cheat Sheet

Manual PDF:

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

(Direct link to firmware, see addacsystem.com for updated docs.)

Module Overview

- **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/ L)	Mono input (synth or line)	10Vpp Synth, 2Vpp Line
IN 2 (Mono/ R)	Mono (normalised to IN 1 when unpatched)	10Vpp Synth, 2Vpp Line
STEREO LINE 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: $\pm 5V$ 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)
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Panel Controls Reference

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/ Trig: >2V
CV Out?	None (except INS MONO OUT - audio, not CV)	
> * Typical Eurorack 0-10V. Not officially specified in manual, but common for ADDAC.		

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

- **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

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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