

Eloquencer Firmware Release Notes

Versions 1.3.9 + 1.4.0

NEW FEATURES

MOD – STEP MODIFIERS

- **Step Modifiers** allow you to define conditions for when steps are active (e.g., depending on previous events, track dependencies, X:Y ratios in loops, etc.).
- Modifiers can trigger different actions like: activating/muting gates, pitch transposing, using the previous track's pitch, etc.

Examples:

- **Long Cycles on Short Patterns:** Use X:Y(e.g., 2:4) to activate a step only on the 2nd iteration of a 4-pattern loop.
 - **Inter-Track Pitch Dependency:** Make a track's pitch depend on another track's note.
 - **Inter-Step Dependency:** Activate steps based on whether earlier steps triggered (e.g., snare hit on step 13 triggers actions on steps 15 and 16).
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PATTERN / PART / SONG

- **New Pattern Reset Types** (found via **FUNC + PATTERN (hold)**):
 - **Off**: Tracks reset per their own configuration.
 - **On**: Tracks always reset.
 - **First**: Tracks reset only the first time they are played after switching patterns.
- **Option to:** Pattern Change at Next Step / Pattern Change at End of Pattern
Choose whether patterns change immediately at the next step or at the end of the pattern (Single Pattern Play mode).
Find it in **FUNC + OPTIONS > PROJECT > Patt Change.**
- **Option to:** Part Change at End of Part / Part Change at End of Pattern
Choose whether parts change at the _____ end of the part or at the end of the pattern.
Find it in **FUNC + OPTIONS > PROJECT > Part Change.**
- **Security Confirmation:** Added when creating a new song.
- **Song Mode Improvements:**
Pattern and part counters are now shown on the display.

SYNCHRONIZATION

Possibility to link two Eloquencers + EME. The slave Eloquencer will follow the Master Eloquencer, this includes Tempo, pattern played by Master and pattern edited by Master.

LIVE RECORDING

- **New Recording Modes:**
 - **Mono:** If one track is selected (Legato mode).
 - **Polyphony:** If multiple tracks are selected (FIFO mode).
 - **New LIVE REC Mode: GATE1 CV2:**
Record gates on CV1 and CV voltages on CV2 (**FUNC + LIVE REC > CV IN GATE1 CV2**).
 - **Gate Delay for CV Recording:**
Adds a delay to avoid triggers being detected before CV value is updated (**OPTIONS > GLOBAL > Gate delay in REC**).
 - **Track Deletion:**
 - Hold Track button > 0.5s: delete track in current pattern.
 - Hold Track button > 2s: delete track across all patterns.
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STEP MODE

- **STEP MODE DIV/x separated:**
DIV/x can now be applied alongside other step modes (FWD, BCKW, RANDOM...).
 - **Gates Relative to STEP DIV/x:**
Step mode gate lengths adjust proportionally.
 - **STEP MODE DIV/x extended:**
Now up to 64 divisions.
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TRACK LENGTH

- Improved track length display.
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SCALE

- **Track-Specific Scale Override:** **OPTIONS > PROJECT > Quant. override**)

TEMPO

- Tap tempo improvements:
 - Maximum limit now 350 BPM.
 - Debouncing to prevent false triggers.
 - Choose between immediate or confirmed tempo changes (**OPTIONS > GLOBAL > Tempo resp**).
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RANDOMIZATION (RAND)

- TIEs now included in randomization (**FUNC + RAND**).
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CLOCK

- 24 PPQN clock output added (**FUNC + CLK > CLK OUT**).
 - Increased internal maximum pattern length to 64 steps.
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CV IN

New CV In assignments (**FUNC + OPTIONS > CV In Assign**):

- Next/Previous Pattern (Trigger)
 - Next/Previous Part (Trigger)
 - Pattern Change (CV)
 - Step Mode (CV)
 - Step Mode DIV/x (CV)
 - Tempo (CV)
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STEP EDITION MODES

- **CV Probability:**
Asymmetric ranges now possible using Range Offset (press encoder to toggle).
- **Ratchet Randomization:**
Choose active ratchets in randomization.
- **Multistep Proportional Editing.**
- **Blocked Track Messages:**
Now displayed when a track can't be edited due to MIDI routing.

- **Minimum Gate Probability Option:**
(**OPTIONS** > **GLOBAL** > **Step Prob. Min**)
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CV-GATE LINK

- Option to mute CV when gates are muted (**OPTIONS** > **PROJECT** > **MUTE**).
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GENERAL / OPTIONS

- **Options Restructuring:**
OPTIONS divided into **PROJECT** and **GLOBAL**.
 - **New Screensavers:**
Adjustable delay and styles (**OPTIONS** > **GLOBAL** > **Screen Saver**).
 - **Oscillator Calibration Tool:**
Send the same CV to all outputs for oscillator tuning (**FUNC** + **OPTIONS** > **GLOBAL** > **TUNE**).
 - **Pre-Listen Improvements:**
(**OPTIONS** > **GLOBAL** > **Pre-listen**)
 - **Off**, **All**, or **Track** modes for previewing steps while paused.
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EME / MIDI INTEGRATION

- **MIDI Keyboard Transposition:**
(**FUNC** + **MIDI** > **MIDI IN** > **Key Transpose**)
- **Note Edition via MIDI Keyboard:**
Hold a step in CV edit mode and press a MIDI key.
- **New EME Custom Buttons:**
 - Next/Previous Pattern Edit
 - Octave Up/Down
 - Play Song
- **New MIDI CC Assignments:**
 - **CH1 CC102**: Next pattern edit
 - **CH1 CC103**: Previous pattern edit
 - **CH1 CC104**: Play Song
 - **CH2 CC103/104**: Octave down/up (Focus)
 - **CH9-16 CC87/88**: Octave down/up (Track)
- **MIDI Transport Control Improvements:**
 - Stop listening to/play/stop messages.
 - Stop sending clock/transport if desired.
- **Improved Feedback:**

- Save project feedback when using EME custom buttons.
 - Better feedback for pattern change, track edit, and more.
 - **New MIDI Features:**
 - MIDI note offset to align octaves with Eurorack standards.
 - Incoming MIDI clock shown in BPM.
 - Incoming MIDI CC control can be disabled if needed.
 - Assign one MIDI channel to multiple tracks.
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FIXED BUGS

COPY / PASTE / CLEAR

- Copying and clearing in pattern mode now include/reset 'pattern reset' and 'scale'.
- RP and RVP handling fixed during freeze, duplicate, copy, and clear.

EME

- MIDI transpose settings are now saved.
- CC90 (Clear) now removes TIEs.
- Access to user scales via CC2 CH1.
- Correct button value display during EME BTN assignment.
- Improved MIDI live recording behavior for overlapping notes.

TEMPO

- MIDI CLK to INT speed switching fixed.
- Initial MIDI CLK pulse improved for better external module sync.

AUX

- AUX start trigger output lengthened for better compatibility.

SONG MODE

- First pattern repetition issue fixed.
- Track length editing during song parts now works properly.

RESET INPUT (RST)

- PlayH/StopL reset mode sync issues fixed.

CV IN

- G0 note handling fixed.

- CV IN 1 SW no longer affects CV2.
- CV IN OLED display bugs fixed.
- CVP + CV In value combo working properly.

LIVE RECORDING

- Improved gate length, TIE recording, and MONO mode handling.

MUTE

- Visualization issues in MUTE mode fixed.

PATTERN / PARTS

- Pattern reset saving in Banks C/D fixed.
- Part change via custom buttons now refreshes part length.

GENERAL

- Clock break when editing song mode solved.
- LED Matrix refresh issue when pasting while paused fixed.
- Timing sync between CV and Gates improved (LIVE REC, MIDI Route, Pre-listen).

Various other interface and visualization improvements included.