# SUBSEQUENT 37 CV EDITOR

USER'S MANUAL

# SUBSEQUENT 37 CV EDITOR / LIBRARIAN

The Subsequent 37 CV Editor/Librarian is a tool for sound design and preset management.  Its plug-in version makes it easier to automate Subsequent 37 CV parameters from within your DAW software, while the standalone version is ideal for patch management.

## UI INTERACTION

### KNOB ADJUSTMENT

• Click and drag any knob vertically for coarse adjustment.

• While holding Ctrl, Command or Shift, click and drag any knob for fine adjustment.

• While hovering the cursor over any knob, use your scroll wheel for coarse adjustment.

• While holding Alt or Option, clicking on a knob sets it to its default position.

• Double-click any knob to type in a numeric value for that parameter.

### SLIDER ADJUSTMENT

• Click and drag sliders to adjust them; simply clicking a location on the slider does not set it to the desired value.

### RESIZING THE UI

• Click the grey triangle ▭▭▭ in the bottom center tab of the Editor to show/hide the extended Subsequent 37 CV parameters window.

• Click and drag the edge of the window to optimize the UI size for your computer.

# PRESET BROWSER



The Preset Browser allows you easily navigate the presets on your Subsequent 37 CV CV as well as the presets on your computer.

• Click the **PRESET NAME** box to view and select presets. You can also click on the arrows to scroll through presets in the selected category.

• Set **CATEGORY** to **ALL** to browse all presets, or select a specific category to see only presets of that category on the presets list.

*NOTE: You can also right-click on a Preset Name to rename it.*

## SAVE
Saves all changes to the current preset.

*WARNING: This will overwrite the active preset in your library or hardware.*

## SAVE AS
Allows you to name and save a current preset as a new file in your Preset Library or on your Subsequent 37 CV.

*NOTE: When you complete a "Save As" in the Editor, the new preset name will also appear on your Subsequent 37 CV's hardware LCD screen, even though it is not saved to the hardware. If you would like to save this preset to hardware, you will need to drag it into the **HARDWARE PRESETS** list on the **LIBRARIAN** page. You can also perform a manual **SAVE** operation on the hardware by pressing the **SAVE** button on your Subsequent 37 CV.*

## CAPTURE HARDWARE
Imports your current Subsequent 37 CV hardware settings into the Editor. Capture Hardware is useful if you have adjusted a sound prior to opening the Editor, or if you want to import a new unsaved sequence.

*NOTE: Current settings will need to be saved or they will be discarded when you load a new preset.*

## RANDOM PRESET
Generates an almost completely random preset, which may or may not be useful. (Eventually you might stumble onto something cool.)

## INIT PRESET
Loads the default Subsequent 37 CV "Init Preset" settings.

## MOOG ICON
Flashes when MIDI data is sent or received by the Subsequent 37 CV Editor.

# PAGE SELECTOR



The **PAGE** selector in the top-left corner of the Editor determines which UI page is active in the Extended Parameters section at the bottom of the editor. The **EDITOR**, **SEQUENCER**, **SETUP**, and **MAPPING** pages are only displayed in the bottom (fold-up) UI section, while the **LIBRARIAN** button opens the Preset Library interface.

## EDITOR

The lower UI section of the Editor shows the advanced Subsequent 37 CV parameters found in the Subsequent 37 CV's **PRESET EDIT** menu.

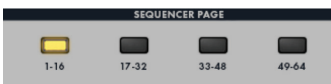*NOTE: All of these parameters are saved per preset.*



## SEQUENCER

The lower UI section of the editor shows a graphical Editor for the Subsequent 37 CV sequencer, as well as the extended **SEQUENCER** parameters found in the Subsequent 37 CV's **PRESET EDIT** menu.



*NOTE: All Sequencer data is saved per preset. You can also save individual sequences to your computer.*

### SEQUENCER PAGE



Sequence data is displayed using four 16-step pages; **SEQUENCER PAGE** selectors are located in the upper-right corner of the Sequence editor.

## SEQUENCER MEMORY



## LOAD SEQUENCE
Loads a previously saved .seq file from your computer to the Editor.

## SAVE SEQUENCE
Saves the current sequence to your computer as a .seq file.

## DISCARD CHANGES
Loads the sequence data most recently received from the hardware to the Editor.

*WARNING: This discards any sequence changes you've made within the editor since loading a preset or capturing from hardware.*

## RANDOMIZE
Creates an almost completely random sequence.

*NOTE: Ratchet Multiple, FIRST/LAST STEP and MODULATION settings are not randomized.*

## MAIN SEQUENCE
This data window allows you to set all the per-step parameters of a sequence.

| STEP NUMBER | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | STEP NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PITCH 1 | D0 | | D0 | | D1 | | D0 | | D0 | | D0 | | D1 | | D0 | | D0 | | D0 | | D1 | | D0 | | D0 | | D1 | | D0 | | D0 | | PITCH 1 |
| PITCH 2 | C-2 | | C-2 | | C-2 | | C-2 | | C-2 | | C-2 | | C-2 | | C-2 | | C-2 | | C-2 | | C-2 | | C-2 | | C-2 | | C-2 | | C-2 | | C-2 | | PITCH 2 |
| VELOCITY | 112 | | 120 | | 126 | | 116 | | 104 | | 106 | | 126 | | 122 | | 110 | | 122 | | 126 | | 126 | | 116 | | 126 | | 126 | | 116 | | VELOCITY |
| MODULATION | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | MODULATION |
| REST / TIE | R | T | R | T | R | T | R | T | R | T | R | T | R | T | R | T | R | T | R | T | R | T | R | T | R | T | R | T | R | T | R | T | REST / TIE |
| SKIP / RATCHET | SK | RT | SK | RT | SK | RT | SK | RT | SK | RT | SK | RT | SK | RT | SK | RT | SK | RT | SK | RT | SK | RT | SK | RT | SK | RT | SK | RT | SK | RT | SK | RT | SKIP / RATCHET |

• STEP NUMBER is indicated across the top of the grid.

*NOTE1 : Steps outside of the FIRST STEP, LAST STEP range are greyed out, but you can still edit them.*

• Click and drag a value up or down to edit.

• Double-click a value to manually enter a new one.

*NOTE 2 : The per-step MODULATION value is bipolar, meaning the center value (0) causes no modulation. Values -128 to -1 create negative modulation, while values from +1 to +127 create positive modulation.*

# SETUP



The **SETUP** page lower UI section mostly contains items from the Subsequent 37 CV **GLOBAL** and **MIDI** menus, as well as the settings for the Editor itself. In the **EDITOR SETTINGS**, you can select the MIDI Input and MIDI Output ports the Editor uses to communicate with the Subsequent 37 CV, as well as a separate MIDI Input port for a Keyboard (KB) Controller.  The KB Controller is primarily useful with the standalone editor, if you want to use a master control keyboard to trigger the Subsequent 37 CV. For the Editor plug-in, you would generally use your DAW settings to route MIDI from a controller keyboard to the Subsequent 37 CV, outside the Editor plug-in.

Additional **EDITOR SETTINGS** include **KNOB RESPONSE** (vertical or rotary mouse movement to adjust knobs) and **ECHO MIDI** (routes all MIDI sent into the plug-in directly out to the connected Subsequent 37 CV).

Additionally, the Editor software version number and connected Subsequent 37 CV firmware version number are displayed at the bottom of the **EDITOR SETTINGS** panel.

*NOTE: Global settings are not saved per-preset.*

# MAPPING



The **MAPPING** page lower UI section shows settings for **CV INPUT**, **CV/GATE OUTPUT** and **MIDI CC MAPPING**.

**CV INPUT** is the same as is found in the hardware **GLOBALS** menu, while **CV/GATE OUTPUT** is the same as found on the hardware's **PRESET EDIT** menu.

**MIDI CC MAPPING** allows you to associate any allowed **MIDI CC** with any Subsequent 37 CV parameter.  Mapping a parameter to a new CC number will clear any mapping of that parameter to a previous CC number.

*NOTE: If **MAP PER PRESET** is turned **ON**, then the **PITCH, VOL**, and **GATE** mapping will change per preset. **MIDI CC MAPPING** is global for the Subsequent 37 CV and cannot change per preset.*

### RESTORE DEFAULTS
This will set both the **CV MAPPING** and **MIDI CC MAPPING** to their factory default settings.

# LIBRARIAN



The Librarian page is divided into two sections: **PRESET LIBRARY** and **HARDWARE PRESETS.**

The **PRESET LIBRARY** section shows presets that are saved on your computer.

The **HARDWARE PRESETS** section shows a local copy of the presets that are saved in your Subsequent 37 CV's internal memory.

*NOTE: These presets are also saved on your computer.*

The first time you use the Subsequent 37 CV Librarian, you may need to click the **GET** button in the **HARDWARE PRESETS** section in order to download all the presets from your Subsequent 37 CV into the Librarian.

*NOTE: Downloading all the presets takes about three minutes.*

# PRESET LIBRARY



Click on any folder in the **PRESET FOLDERS** section (left column) to select it. The presets in that folder will be shown in the center column.

**FROM HERE YOU CAN PERFORM THE FOLLOWING ACTIONS:**

• Double-click a preset - This will load the selected sound to your Subsequent 37 CV's edit buffer so you can hear it, but it is not written to the Subsequent 37 CV at this time. The selected preset is also loaded to the Editor window where you can view and adjust its settings.

• Right-click a preset – This will allow you to rename a preset as well as copy, paste, delete, change Category, or reveal the preset file on your hard drive.

• Drag and drop presets – This will allow you to move presets between the Subsequent 37 CV Editor's Preset Library and the connected Hardware Presets lists. To load a preset from your library into the Subsequent 37 CV, drag it from the **PRESET LIBRARY** (center column) to the **HARDWARE PRESETS** list (right column), and drop it onto the hardware preset you want to replace. You can also drag a preset from the center column and drop it onto a different folder in the left column to move the preset to that folder.

# SEARCH PRESETS

The **SEARCH PRESETS** bar allows you to filter the presets shown in the center column according to any text you type into the Search bar. Click the [X] to clear any search text and show all presets in the selected folder.

# PRESET LIBRARY BUTTONS

### IMPORT BANK

Loads an entire bank of presets from a saved file on your computer to the Subsequent 37 CV hardware. This will replace all 256 presets on your Subsequent 37 CV with the contents of the bank file.

*NOTE: It takes about three minutes to import the entire preset bank to a Subsequent 37 CV.*

## PRESET LIBRARY BUTTONS *(continued)*

### EXPORT BANK
Downloads the entire bank of 256 presets from your Subsequent 37 CV hardware and prompts you to save them as a single "preset bank" sysex file on your computer.  This bank can be loaded back to the hardware (or to any other Subsequent 37 CV) using the **IMPORT BANK** button.

***NOTE:*** *It takes about three minutes to export the entire preset bank from a Subsequent 37 CV.*

### NEW FOLDER
Creates a new subfolder within the **PRESET LIBRARY.**

### SHARE PRESETS
Opens an email client with any currently selected presets attached. You can use this feature to email presets to yourself, or share them with other Subsequent 37 CV users.

# HARDWARE PRESETS

**FROM HERE YOU CAN PERFORM THE FOLLOWING ACTIONS:**

• Double-click a preset – This action in the **HARDWARE PRESETS** list will cause the Subsequent 37 CV to load the selected preset from its internal memory.

  ***NOTE: PGM CHANGE RECEIVE*** *must be enabled in the Subsequent 37 CV **Global Settings.***

• Select one or more presets and drag to a presets folder – This action in the **HARDWARE PRESETS** list will allow you to copy one or more presets from your Subsequent 37 CV to any folder in the Editor's **PRESET LIBRARY.**

  ***NOTE:*** *Dragging a preset from the **PRESET LIBRARY** to the **HARDWARE PRESETS** list will load that preset to the Subsequent 37 CV's hardware memory and overwrite the existing preset.*

• Swap hardware-preset locations – Drag and drop a preset within the **HARDWARE PRESETS** list to a new location to swap hardware-preset locations.

  ***Ex:*** *Dragging hardware preset 1 to hardware preset 4 will move hardware preset 1 to hardware preset location 4, and hardware preset 4 will be moved to hardware preset location 1.*

### GET
Requests that all presets from the Subsequent 37 CV be sent to the editor.

***NOTE:*** *It takes about three minutes to load the entire preset bank from a Subsequent 37 CV.*

### SEND
Outputs the current "hardware presets" list from the Subsequent 37 CV Editor to the Subsequent 37 CV.

### AUTO SEND
If **AUTO SEND** is active, then any changes made to the **HARDWARE PRESETS** list in the Editor will be automatically sent to the hardware, and written to the hardware preset memory. If **AUTO SEND** is not active, then changes made to the **HARDWARE PRESETS** list in the Editor will be shown in italics, and will not actually be sent to the hardware unless the **SEND** button is pressed.

***NOTE:*** *Double-clicking a preset in the **PRESET LIBRARY** automatically sends it to the hardware "edit buffer", but doesn't write anything to permanent memory. Information in the edit buffer is discarded when you change presets, unless you manually save on the hardware first.  This is always the behavior when clicking around in the **PRESET LIBRARY** and is not affected by **AUTO SEND.***

# SUBSEQUENT 37 CV EDITOR PLUG-IN OVERVIEW

The Subsequent 37 CV Editor / Librarian comes as both a standalone application and a plug-in (VST2, VST3, AU and AAX) for use within a DAW. While both are essentially identical, it should be noted that the editor plug-in is not a virtual instrument and does not process or output audio.

## PLUG-IN EDITOR CONFIGURATION

Configure your DAW in the same way you would when using any external hardware instrument - with MIDI connected via USB or DIN, and audio connected from the output of the Subsequent 37 CV to your audio interface.

Once configured, you can insert the Subsequent 37 CV Editor plug-in on the effects insert of any track.

*NOTE: Only one instance of the Subsequent 37 CV editor is supported within a project.  Because it is only an editor and cannot multiply the number of Subsequent 37 CVs you own, this is generally not a problem.*

The Subsequent 37 CV Editor plug-in uses its own MIDI connection to communicate with your Subsequent 37 CV, independent from the Audio/MIDI settings in your DAW.  This MIDI connection is configured in the editor **SETUP** page under the **EDITOR SETTINGS** section. Simply go to the **MIDI INPUT** and **MIDI OUTPUT** tabs and select Subsequent 37 CV. This is the same page as the standalone editor.

Turning knobs on your Subsequent 37 CV will now move the virtual knobs in the plug-in. These tweaks can be recorded and played back as parameter automation. You can also add preset changes to the plug-in on your MIDI tracks.

*NOTE: The state of the plug-in (and the associated Subsequent 37 CV hardware settings) are saved and restored from your DAW.*

*WARNING: Before using your Subsequent 37 CV with a DAW, go to the **GLOBAL SETTINGS** section of the **SETUP** menu. Under the **LOCAL CONTROL** section – turn Keys, Wheels and Panel **OFF** to prevent MIDI issues. Be sure to turn these back **ON** when not in use with a DAW. If you do not do this, Local Control will be turned off and your Subsequent 37 CV will not produce sound.*

## PLUG-IN USE NOTES

A number of DAW programs offer an "external instrument" device, which handles MIDI and audio on a single track. In this case, you can use the Subsequent 37 CV Editor on the same track that is hosting the external instrument device for the Subsequent 37 CV.

If you prefer to keep your Subsequent 37 CV audio on its own audio track, then insert the editor like an effect on an audio track. Since the Subsequent 37 CV editor uses its own MIDI connection to the synthesizer, it doesn't matter what track is hosting the editor plug-in.

*IMPORTANT NOTE FOR WINDOWS USERS: Windows does not allow more than one program to use a USB MIDI device at a time, which can cause connection issues if you are trying to use the Subsequent 37 CV USB port for both your DAW and the editor at the same time. You can use this setup (and in fact it's ideal) but to do so, Windows requires the Sub 37 USB MIDI Driver for Windows to be installed. Look for the Moog Sub 37 USB driver installer located in the Windows installation folder of this release package.*

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