

MIDISynth-MPL 2.0.0

User Guide

www.sigabort.co/midisynth



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1 Overview

MIDISynth-MPL is a VST/AU/Standalone application for Windows and OSX that allows you control of your Korg Minilogue xd or Prologue from inside your favourite DAW, or as a standalone application.

1.1 Requirements

- Windows 7+
- OSX 10.11+

1.2 Limitations

1.2.1 Windows Users

Windows doesn't have multi-client MIDI drivers and the synth only provides a single USB MIDI input/output, so you'll need to ensure nothing else is connected to the synth when using the editor.

This also extends to using the VST inside a host – please make sure that the host doesn't open the synth MIDI input/output, or any MIDI port used for controller input (see your host documentation for how to set this up). You can still send data to the synth through the plugin by enabling the **MIDI Thru** option (see section 3.1.9).

1.2.1.1 Windows Virtual MIDI Port

MIDISynth will take input from a MIDI port named **MSVP_MPL_Out** and route this through to the synth. You can use this inside your DAW to send clock information to Peak for syncing arp, LFOs etc (see 8.3).

Use LoopMIDI or other virtual MIDI port software to set these up.

1.3 Acknowledgments

Thanks to Sebastian Cordoves for his help in mapping Prologue and without whose help support would not have been possible.

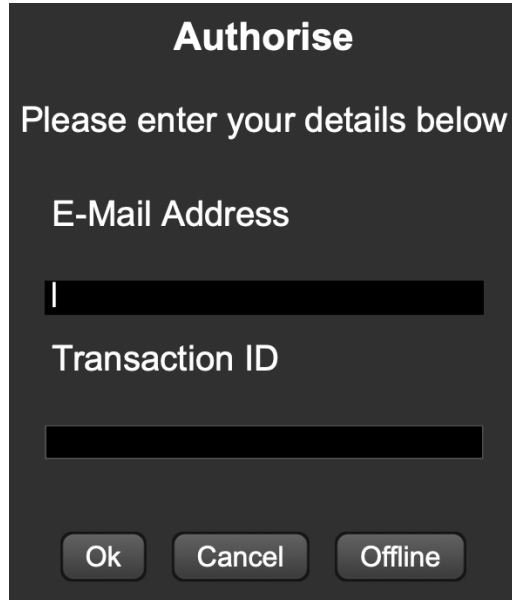
Windows AVIR image resizing algorithm designed by Aleksey Vaneev.

1.4 Installation

Click on the installer and follow the instructions.

1.5 Authorisation

When you start the editor, you will be asked to authorise.

A dark-themed dialog box titled "Authorise". Below the title is the instruction "Please enter your details below". There are two input fields: "E-Mail Address" and "Transaction ID". The "E-Mail Address" field contains a single character "I". At the bottom of the dialog are three buttons: "Ok", "Cancel", and "Offline".

Authorise

Please enter your details below

E-Mail Address

I

Transaction ID

Ok Cancel Offline

Enter your purchase email address and the PayPal transaction number you received with your purchase. Authorisation will take 15-20 seconds to complete.

1.5.1 Offline Authorisation

If you wish to use the editor on a computer not connected to the internet, then install the software and hit the **OFFLINE** button.

Follow the instructions to create an authorisation file and send it to:

offline_auth@sigabort.co.uk

Please note that this is currently a manual process and authorisation may take up to 48 hours.

Offline computers will need to be re-authorised every 90 days.

1.5.2 De-Authorisation

If you wish to de-authorise a computer so that a different computer can be authorised, use the button on the settings page (see 3.2.18)

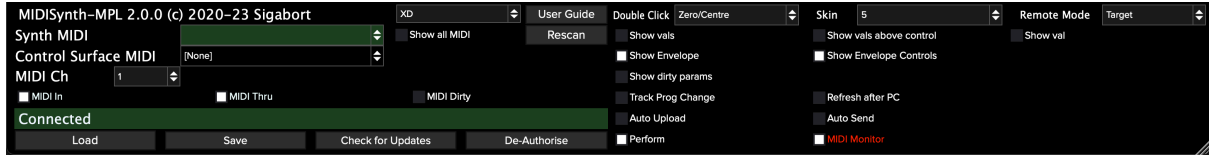
2 Synth Settings

In order for MIDISynth to operate correctly please ensure the following settings are correct on page 5 of global settings:

- MIDI Rx Prog Chg: On
- MIDI Rx CC: On
- MIDI Rx PitchBend: On
- MIDI Tx Prog Chg: On
- MIDI Tx CC: On
- MIDI Tx PitchBend: On

3 Setup

Click on the **FULL** button to display the sub-panel and click **SETTINGS** to show setup options in the lower portion of the editor.



3.1 MIDI

3.1.1 Synth Selector

By default, the app will be set to work with Minilogue xd. If you have Prologue, use the selector to change from XD to Prologue and restart. This will be remembered for future sessions.

3.1.2 Device MIDI Port

The MIDI port of the synth is auto selected if detected at startup. If you are lucky enough to have more than one supported synth or are using an intermediary interface (e.g. Mio +4), use this to select a different MIDI port.

3.1.3 Controller MIDI Port

The controller MIDI port can be used to select a MIDI device that can be used for controlling the V-Macro controls (see 8.3), custom controls (see 4.2.2) and general MIDI mapping of controls on the UI (see 4.1.5). Additionally, all MIDI from this port will be routed through to the synth so you can route an external keyboard or controller to the synth.

3.1.4 Rescan

Rescan connected MIDI devices.

3.1.5 MIDI Ch

MIDI channel the synth is set to, as set in global settings page 4.

3.1.6 Show All MIDI

Enable this option to show all MIDI ports on the computer, not just those that confirm to synth naming.

NOTE: In general, this should remain turned off so that auto-detection is enabled.

3.1.7 MIDI In

Enabling this option will process incoming MIDI data from the controller and update the GUI appropriately (turning the knobs on the synth or automation data). Depending on the state of the 'MIDI Sets Dirty' flag, this will also set the edit buffer as "dirty".

3.1.8 MIDI Dirty

Enabling this option will cause incoming MIDI (turning the knobs on the synth or automation data) to mark the current edit buffer as “dirty” and flag that the user needs to save it when moving away from the patch.

3.1.9 MIDI Thru

Select this to process note in information from the DAW – this should be selected when a host sequencer (e.g., Live) is being used to send MIDI information to the synth.

3.2 General

3.2.1 Double Click Action

Determines what happens when a control is double-clicked:

- **Off:** No action
- **Zero/Centre:** Control is set to 0 or centred if it is bipolar
- **Default:** Control is set to the Novation default
- **Patch:** Control is set to the value when the patch was loaded

3.2.2 Skin

Change the look of the editor.

3.2.3 Remote Mode

Selection mode of operation for the performance controls (None, Target, Perform) – see section 6.

3.2.4 Show Vals

Enabling this option will show the current value underneath each control. The user can click on this to manually enter a value.

3.2.5 Show Vals Above Control

Determines whether control values are shown above or below controls.

3.2.6 Show Val

Enabling this option will show the value of the currently moving control.

3.2.7 Show Envelope

Enabling this option will show a graphical representation of envelopes in the appropriate panels.

3.2.8 Show Envelope Controls

Enabling this option will show envelope controls sliders under the envelope display.

3.2.9 Show Dirty Params

Enabling this option will show dirty parameters for the patch in purple.

3.2.10 Track PC

Determines whether the editor should follow program change (pattern selection) on the synth.

3.2.11 Refresh After PC

If enabled, after changing patch on the synth, the contents of the editor will be refreshed with the contents of the patch on the synth – if not, the editor will display in the in-editor version.

3.2.12 Auto Upload

When enabled the patch will automatically be uploaded to the synth when it is saved.

3.2.13 Auto Send

When enabled the current patch will be resent to the synth when any non-real-time controls are updated (see 4.1.4).

3.2.14 Perform

Show the performance options – see sections 4.10, 4.11, and 4.12.

3.2.15 Load At Startup (VST/AU only)

If enabled, the state of the editor when you last saved your project set will be reloaded and sent to the synth.

3.2.16 MIDI Monitor

See 7.2.

3.2.17 Check for Updates

A check for updates is automatically performed at startup, but can also be triggered manually,

3.2.18 De-Authorise

De-authorises this computer so that the editor can be used on a different computer.

3.3 Storage

3.3.1 Load

This will load a state previously stored with the **SAVE** button.

3.3.2 Save

When saving, the following information is stored:

- Setup data
- Patch data
- XY control assignments (global)
- Performance control data
- Custom parameter assignments
- Section presets (see 4.1.2)

Please note all state is automatically saved with the host data when running VST/AU and to an auto-save file when running standalone, so LOAD/SAVE are provided for archiving purposes rather than something that needs to be done on a regular basis.

3.3.3 Auto-Save

When running standalone auto-save actions are performed under the following conditions: (this auto-save will automatically be loaded the next time the editor starts up)

- Setup options are updated
- A patch is saved
- Performance controls are updated, including setting range
- XY controls are updated, including setting range
- Section presets are updated

4 Operation

A zoom control is provided at the top of the screen for sizing the display to fit your screen.

Full-screen mode can be toggled via the use of the Sigabort icon in the top-left corner of the screen.

4.1 Main Controls

The top portion of the screen is filled with the main synth controls, covering all parameters of the synth, apart from the motion and sequence data (see section 4.8). Controls are grouped together into sections indicated by a section title.



Holding **SHIFT** whilst moving a control will allow for fine grained control.

Sections that have been edited (i.e. are different from the current loaded patch), will be marked with an *.

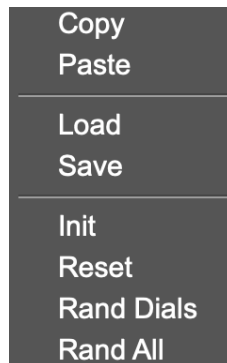


Additionally, if Show Dirty Params is selected, any parameters that are different from the currently loaded patch will be shown in purple.

Pressing the **MORE** button will toggle whether the bottom panel settings are available for editing.

4.1.1 Section Controls

Each section has an **A/B** button and an **OPTIONS** menu.



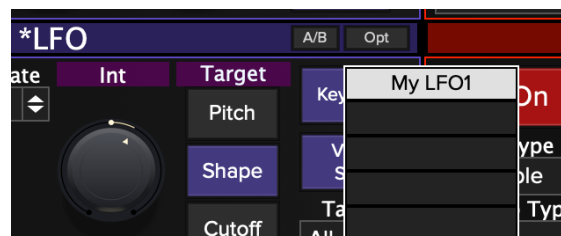
Toggling the **A/B** switch will toggle between your current (edited) settings and those of the patch when it was loaded.

Note: When **A/B** is enabled (i.e. using the loaded patch settings rather than the edited settings), the **COPY** and **SAVE** selections will operate on the patch settings, not the edited settings.

4.1.2 Section Presets

Up to 10 presets can be saved and recalled for use in other patches – think of this as a favourites menu.

Selecting **SAVE** will bring up a menu showing any existing entries. Choose an existing entry to overwrite or an empty slot to create a new preset.



Clicking on an empty slot, or **SHIFT**-clicking on an existing slot will allow you to name the preset.



CMD/CTRL-clicking on an existing slot will delete the preset.

4.1.3 Section Header

SHIFT-clicking on the section head is a shortcut to perform the randomise dials operation.

CMD/CTRL-clicking on the section head is a shortcut to perform the randomise all operation.

4.1.4 Non-Real-Time Controls

Not all controls available on the synth are real-time controllable, i.e. when changing some controls on the editor, these are not immediately updated on the synth.

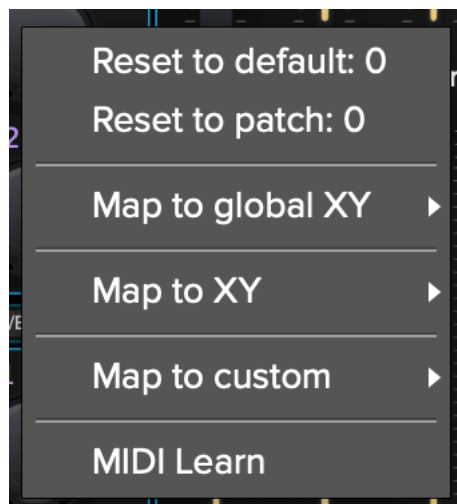
These controls are indicated by their name be surrounded in square brackets, e.g. **[Arp Gate]** and **[Arp Rate]**.



Enabling Auto-Send will automatically send the updates to the synth when these parameters are updated (see 3.2.13).

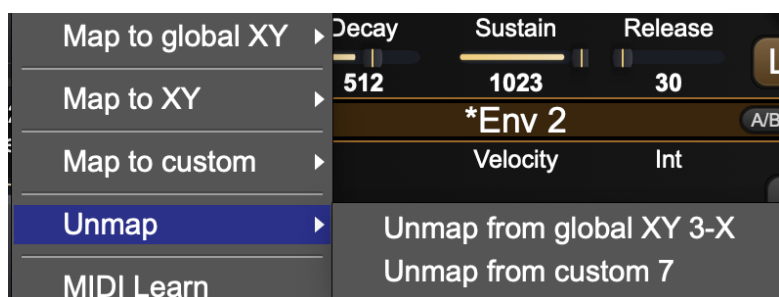
4.1.5 Control Operations

Right-clicking on a control will bring up options for the control.



From here it is possible to assign the control to one of several destinations and also perform MIDI learn for any provided controller (see 3.1.3).

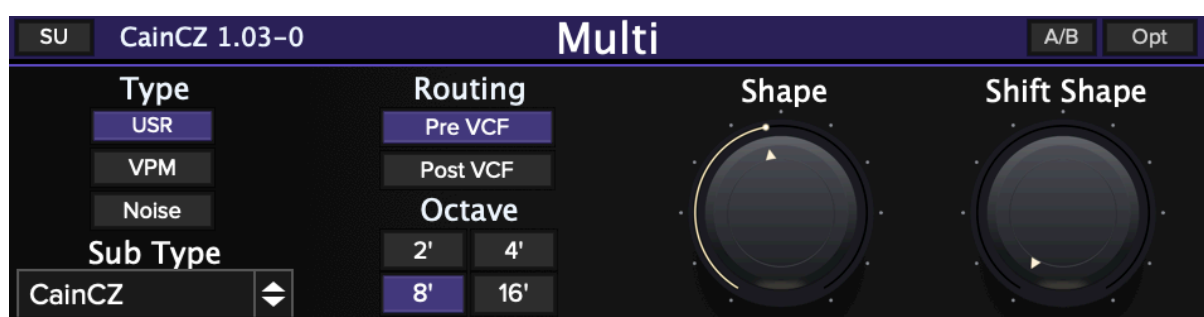
You can also unmap any assignments made:



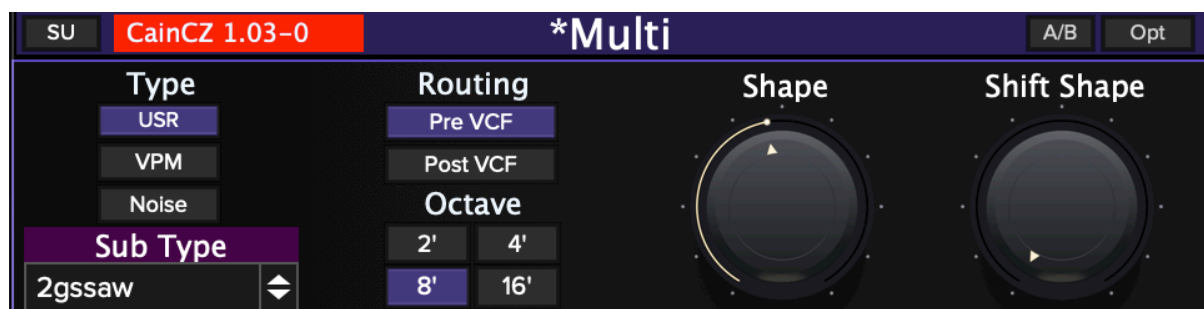
Assignments to XY pads and custom controls can also be made directly from the components themselves.

4.1.6 Store User (SU)

When multi, or any of the fx, are set to user an additional **SU** button will appear on the section header.

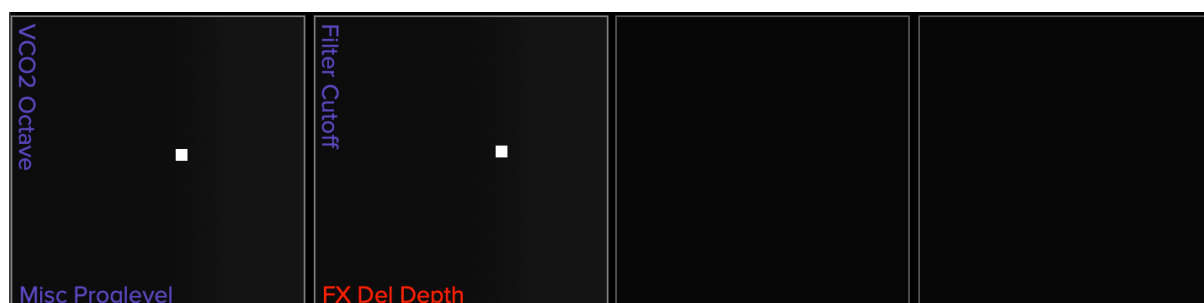


Pressing this button will store the current settings in the panel for future reference. If the user osc or fx change in the future this panel will show up bright red indicating that the user element has changed from what was originally used.

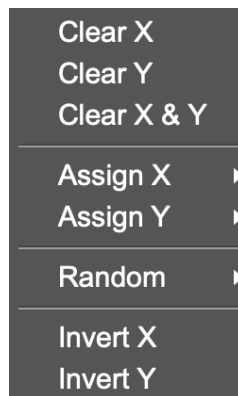


4.2 XY Controls

Four XY controls are provided for easy control of multiple parameters at the same time.



Right-click on the XY pad to bring up options.



Using the **ASSIGN** operations will allow you to pick controls to assign to the XY pad. Alternatively, these can be assigned directly from the controls themselves (see 4.1.5).

Using the **RANDOM** operations will assign random parameters to the pads for some pot-luck surprises.

[4.2.1.1 Global XY Controls](#)

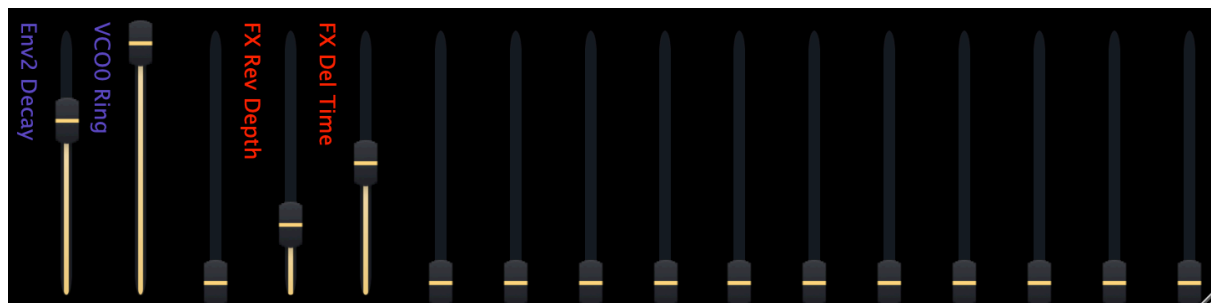
It is possible to store a set of XY definitions for each patch as some controls may be more appropriate for certain patches compared to others.

It is also possible to define a set of global XY controls that are always available.

To enter global XY control mode, **SHIFT**-click the **XY**. The button will change colour and you can now define a set of global XY controls. Pressing the button allows easily toggling between the two modes.

4.2.2 Custom Parameter Assign

16 parameters can be freely assigned to any parameter on the synth and these will then be available in performance mode.

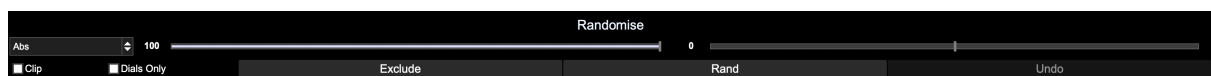


Right-click on a parameter to bring up options.

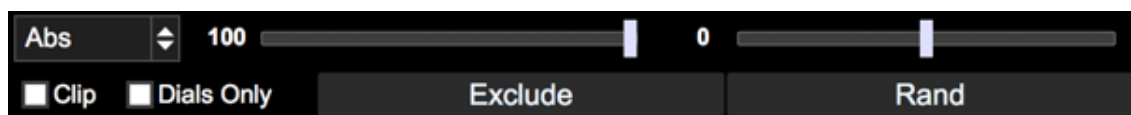


See section 6 for details of how these controls operate with respect to host automation.

4.3 Randomise



Three randomisation algorithms are provided for discovering new sounds. Several parameters are provided for each randomisation mode to tailor how mild or extreme the randomisation is, and sections or individual parameters can be excluded to further increase control.



4.3.1 Common Controls

These controls are available in all random modes.

- Dials Only – enabling this will disable all dropdowns from randomisation
- Exclude – Allows individual controls to be excluded from the randomisation
- Random – Randomise with the current settings

The button matrix can be used to provide high level exclusion of sections of the synth.

4.3.2 Absolute



An absolute value will be set for the parameter between its min and max value.

- **Range** – this determines the max upper value – a random value will be chosen between 0 and this %age of its max value
- **Affinity** – whether the value tends to favour min (-ve) or max(+ve) values.

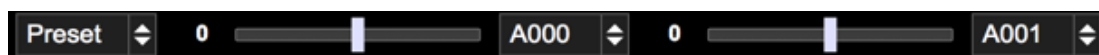
4.3.3 Relative



This randomiser will generate random values based on the current values in the synth.

- **Range** – the maximum movement as a %age of range (i.e. max – min values) that the value can move
- **Noise** – how often (%age) the range is ignored to pick a random value. Negative values still obey the max of 50% of range, positive values set the range to be 100%
- **Clip** – affects behaviour when the new value would be outside of the min/max range. When clipping is on, they are fixed to min/max values. When disabled, they will “bounce back” from the min/max difference by the appropriate amount.
- **Direction** – sets direction of value change to down, up, or both.

4.3.4 Patch



The new value will be picked between min and max values when the minimum is taken from the first patch specific and the maximum is taken from the second.

- Patch Select 1 – the first patch number to use
- Affinity – whether the value tends to favour patch 1 (-ve) or patch 2 (+ve)
- Patch Select 2 – the second patch number to use
- Noise – how often (%age) the affinity is ignored to pick a completely random value. Negative values still obey the bounds of min/max from patch 1 and 2, positive values will pick a value from min to max of the parameter.

4.3.5 Exclude

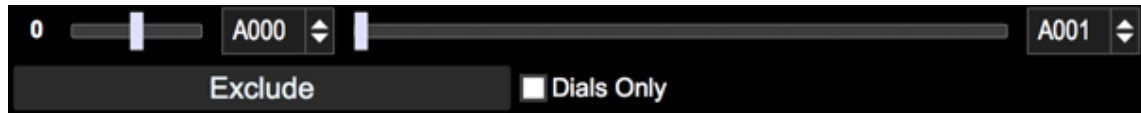


Pressing the **EXCLUDE** button will enter exclude mode where each control or section be individually excluded from the randomisation. Controls highlighted in blue are included. To toggle the inclusion/exclusion of a control, simply click on it.

4.3.6 Undo

Pressing the **UNDO** button will undo the last randomise operation.

4.4 Morph



It is possible to morph between 2 patches using the controls provided.

Noise – How often (%age) the min/max values of the patches are ignored to pick a random value. Negative values still obey the bounds of min/max from patch 1 and 2, positive values will pick a value from min to max of the parameter.

- Patch Select 1 – the first patch number to use
- Morph bar – Left is fully patch 1, right is fully patch 2 – in-between is where the magic can happen
- Patch Select 2 – the second patch number to use
- Dials Only – enabling this will disable all dropdowns from morphing
- Exclude – Allows individual controls to be excluded from the morph (see section 4.3.5)

4.5 Favourites

Up to 16 global favourites can be stored along with 16 favourites per plugin instance when using VST/AU.

1	+	VHS Pad	X	9	+	<Empty>	X	1	+	Bassline	X
2	+	Major Bass	X	10	+	<Empty>	X	2	+	Scandi Arp	X
3	+	Film Board Lead	X	11	+	<Empty>	X	3	+	Pluck Me	X
4	+	<Empty>	X	12	+	<Empty>	X	4	+	<Empty>	X
5	+	<Empty>	X	13	+	<Empty>	X	5	+	<Empty>	X
6	+	<Empty>	X	14	+	<Empty>	X	6	+	<Empty>	X
7	+	<Empty>	X	15	+	<Empty>	X	7	+	<Empty>	X
8	+	<Empty>	X	16	+	<Empty>	X	8	+	<Empty>	X

These plugin favourites are unique to each instance of the plugin allowing you to store and recall 16 sounds specific to each set that you work on. This gives you total confidence to be able to recreate the sounds in your track at a future point whatever happens to the internal state of the synth.

The 16 global favourites and 8 plugin presets can be recalled via the use of Program Change messages – see section 5.1.

Press the **+** button next to a slot in order to store the current edit buffer contents into that slot.
Press the **X** button next to a slot to clear that slot.

4.6 Browser

The browser provides patch browse and management functionality.

The browser operates in two modes, one for browsing the patches loaded into the editor, and the other for browsing patches stored on your hard drive.

Internal	Organise	001: Synth 2	002: Synth 3	003: Synth 4	004: Init Program	005: Init Program	006: Init Program	007: Init Program	008: Orchestra xD
Category	Filter	009: MirroredBass	010: Mr. Squelch	011: MetalFnkLead	012: Space Clavi	013: VelocityStab	014: Bassblester	015: Digital Rush	016: OnTheLevel
[All]		017: CheeseRoyale	018: BabeWave	019: Pluck VPM	020: Pulsating80s	021: Fifth Kiss	022: Warm Dtn	023: Funky Stab	024: Harp xD
Genre	Rating	025: Future Pulse	026: Aik&Rel	027: Proily800mk2	028: Kawaii Chord	029: Creep Lights	030: Trill Synth	031: LapisLazuli	032: Claymate
[All]		033: DownStair	034: FallingPluck	035: Rainchild	036: TapeSine	037: Mini Moon	038: Petrichor	039: LoFi Strings	040: Signal Key
Pack	Colour	041: Organ xD	042: Organic Keys	043: K.ORG	044: Soapy EP	045: Logue Lady	046: 90's EPiano	047: XD Seven	048: Roadz Bell
[All]		049: Glocken xD	050: Smart Bell	051: FantaBell	052: GateStepps	053: Gate 4AM	054: 1982theme	055: LukeWarm Pad	056: RiseToPower
DS	[Default]	057: Eyes Of Owl	058: Nowhere Pad	059: WaveSeq Pad	060: GlasssinePad	061: Angelic Vox	062: Plastic Pad	063: Haunted Pad	>> 2/9

Files scanned by the browser are:

- Single XML files (from editor)
- XML banks (from editor)
- XML storage files (from editor – see section 3.3.2)
- Korg Sound librarian banks (.mnlgxdlib/.prlglib files)
- Korg Sound librarian patches (.mnlgxdprog/.prlgprog files)

4.6.1 Operation

4.6.1.1 Internal/Storage

Switch between browsing the patches in the editor and those on external storage.

When viewing external storage, patches that are in the internal banks of the editor will be highlighted to indicate they are in use. The internal slot will be indicated when you hover over the patch.

Additionally, hovering over entries in external storage mode will show the pack the patch belongs to.

4.6.1.2 Category

Choose a category to filter by.

Minilogue xD doesn't support categories and so these are implemented by the software itself. Patches fetched from the synth will not have initial category information.

4.6.1.3 Genre

Choose a genre to filter by.

Neither synth supports genres and so these are implemented by the software itself. Patches fetched from the synth will not have initial genre information.

4.6.1.4 Pack

Pack lists the folders the patches are stored in, or the name of the library file containing a bank of presets and allows filtering by these.

Only enabled when in storage mode.

4.6.1.5 Filter

Allows patches to be filtered via name.

4.6.1.6 Rating

Allows patches to be filtered via a rating.

Ratings are implemented by the software itself. Patches fetched from the synth will not have initial rating information.

4.6.1.7 Colour

Colouring to apply to the entries in the browser:

- Default: Duplicate patches are coloured in red, init patches are shown in white.
- None: No colouring
- Category: Entries are coloured according to category
- Genre: Entries are coloured according to genre

It is possible to change the colour assignments in the organiser (see 4.6.3).

4.6.1.8 DB

Brings up DB configuration for specifying patch locations (see section 4.6.2).

Only enabled when in storage mode.

4.6.1.9 Organise

Brings up the organiser (see section 4.6.3).

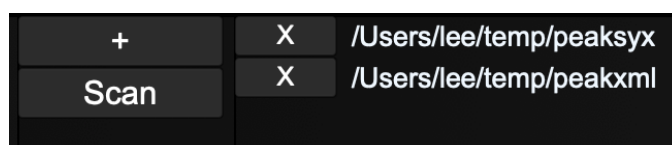
4.6.1.10 Right-hand Mouse Menu

Clicking on a browser entry with the right-mouse button will allow the following operations to be performed:

- Assign category (xd only)
- Assign genre
- Assign rating
- Copy to favourites

Assigning category, genre and rating can be applied to multiple patches at the same time.

4.6.2 Browser Configuration



Click the **X** button next to a directory to remove it from scanning.

4.6.2.1 +

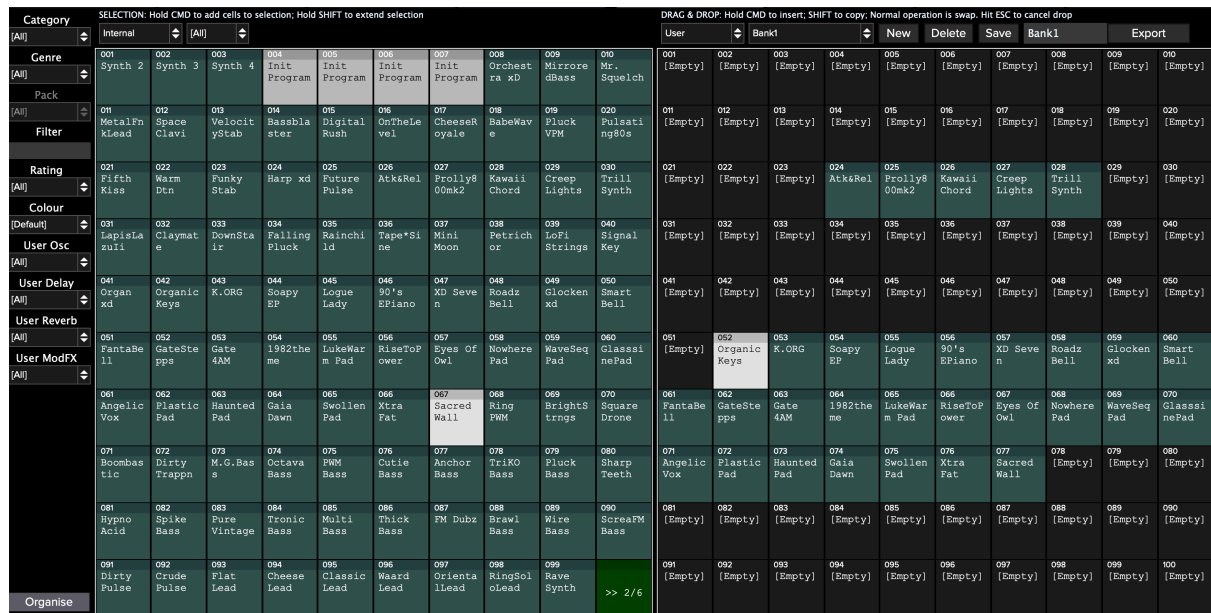
Use this button to add new directories for scanning.

4.6.2.2 Scan

Scan configured directions for patches.

4.6.3 Organiser

The organiser allows the internal patches in the editor to be organised.



The screen is split into 2 panels.

The left panel can be used to internal patches (either free flowing or in banks), external patches, a file browser for searching for patches, and user banks.

The right panel can view internal patches and user banks.

Selections can be made via use of the mouse in combination with the SHIFT and CMD/CTRL keys.

Selections can be dragged from one panel to the other to update the patches in the panel.

The normal drag operation is to swap patches with source and destination, but this can be modified:

- CMD/CTRL insert source patches into destination
- SHIFT copy source patches over destination

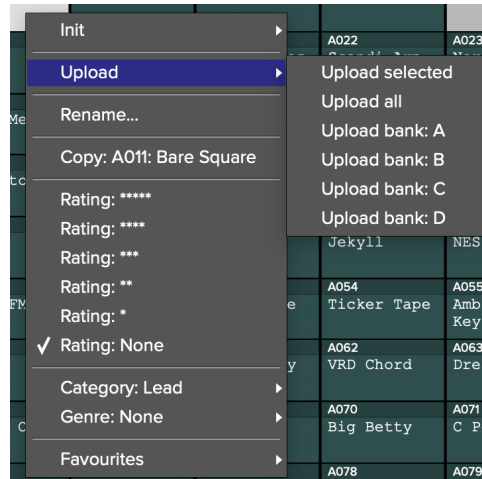
The contents of the left panel can be filtered by the controls on the left-hand side.

Counts are given for a high-level overview of your patch organisation:

[All]
None (387)
Arp (11)
Bass (26)
Bell (3)
Classic (3)
DrumPerc (7)
Keyboard (10)
Lead (15)

For category and genre, it is possible to assign your own colours via a SHIFT-click on an entry.

4.6.3.1 Right-hand Mouse Menu



Clicking on an organiser entry with the right-mouse button will allow the following operations to be performed:

- Init patch/bank/selection/all
- Upload patch/bank/selection/all
- Rename patch
- Copy/paste patches
- Assign category
- Assign genre
- Assign rating
- Copy to favourites

Assigning category, genre and rating can be applied to multiple patches at the same time.

4.6.3.2 User banks

It's possible to easily create banks of patches for storage and retrieval in the future.

User	Bank1	New	Delete	Save	Bank1	Export
000 Pin Tweaks	001 Tension	002 Hyde	003 Idiot Spanner	004 Console Wars	005 Temple Bells	006 Modular Perc

Banks are stored by default in .xml format but can be exported as sysex files compatible with librarian by using the **EXPORT** button.

4.6.4 Keyboard Short Cuts

4.6.4.1 General

- +: Next preset
- -: Previous preset
- 0-6: Rating

4.6.4.2 Controls

- Up arrow: Increase control value by 1
- SHIFT-Up arrow: Increase control value by 10
- Down arrow: Decrease control value by 1
- SHIFT-Down arrow: Decrease control value by 10

4.6.4.3 Section

- R: Randomise dials
- SHIFT-R: Randomise controls
- CMD/CTRL-R: Reset to patch
- I: Init
- L: Load
- S: Save
- C: Copy
- P: Paste

4.7 V-Macros

Up to 8 virtual macros can be defined per patch. Each virtual macro can be set to control up to 4 parameters on the synth (selected via buttons **A-D**), and the start, end and depth of each parameter can be controlled.



4.8 Step Sequence & Motion (XD)

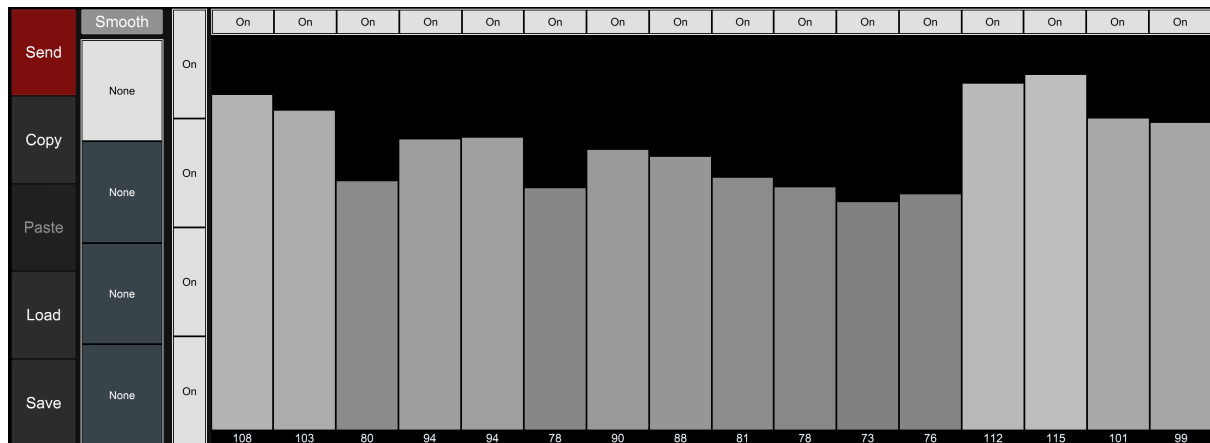
Press the **MOTION/SEQ/MS** button to toggle between modes.

The **MS** (Motion & Seq) mode displays the same data as the motion and step sequence screens but on the same screen.

Editing motion and step sequence data is not real time and changes will need to be manually sent to the synth.

When running the demo, only 1 motion sequence and 1 step sequence can be edited.

4.8.1 Motion Editing



Click on the lane headers to show the motion data for the selected parameter.

SHIFT-Clicking the lane header will allow a new parameter to be selected.

Each motion lane can be enabled/disabled via use of the appropriate **ON** button

Steps can be enabled/disabled via the use of the **ON** buttons along the top of the display. This is global and affects all motion sequences.

Click on the SMOOTH button to change the smoothing status for the sequence. When smoothing is off the resolution of the motion data is increased for 16 to 80 steps.

4.8.1.1 Send

Send the current patch to the synth with the updated motion data. The button will turn red when there are changes in the editor not on the synth.

NOTE: This button will send the complete patch to the synth, including any outstanding changes to step sequence data.

4.8.1.2 Copy

Copy the current motion data to the copy buffer.

4.8.1.3 Paste

Paste the motion data stored in the copy buffer to the current motion sequence.

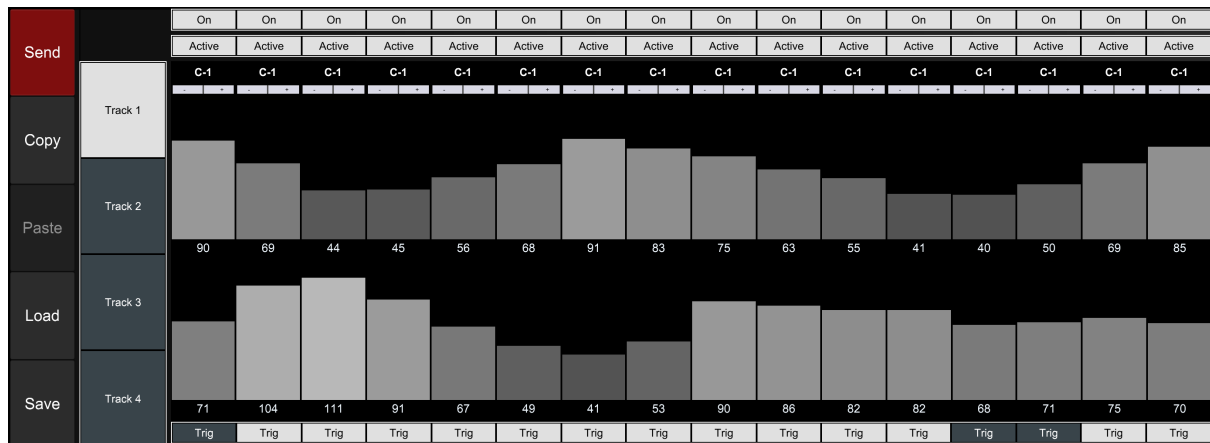
4.8.1.4 Load

Load a motion sequence from storage.

4.8.1.5 Save

Save the current motion sequence to storage.

4.8.2 Step Sequence Editing



Click on the track headers to show the step sequence data for the selected track.

Steps can be enabled/disabled via the use of the **ON** buttons along the top of the display. This is global and affects all tracks.

Steps can be activated/de-activated via the use of the **ACTIVE** buttons along the top of the display. This is global and affects all tracks.

Steps on each track can be enabled/disabled via the use of the **TRIG** buttons along the bottom of the display.

For each step, the following information is display (from top to bottom):

- Note
- Velocity
- Gate time

4.8.2.1 Send

Send the current patch to the synth with the updated step sequence data. The button will turn red when there are changes in the editor not on the synth.

NOTE: This button will send the complete patch to the synth, including any outstanding changes to motion data.

4.8.2.2 Copy

Copy the current step sequence data to the copy buffer.

4.8.2.3 Paste

Paste the step sequence data stored in the copy buffer to the current motion sequence.

4.8.2.4 Load

Load a step sequence from storage.

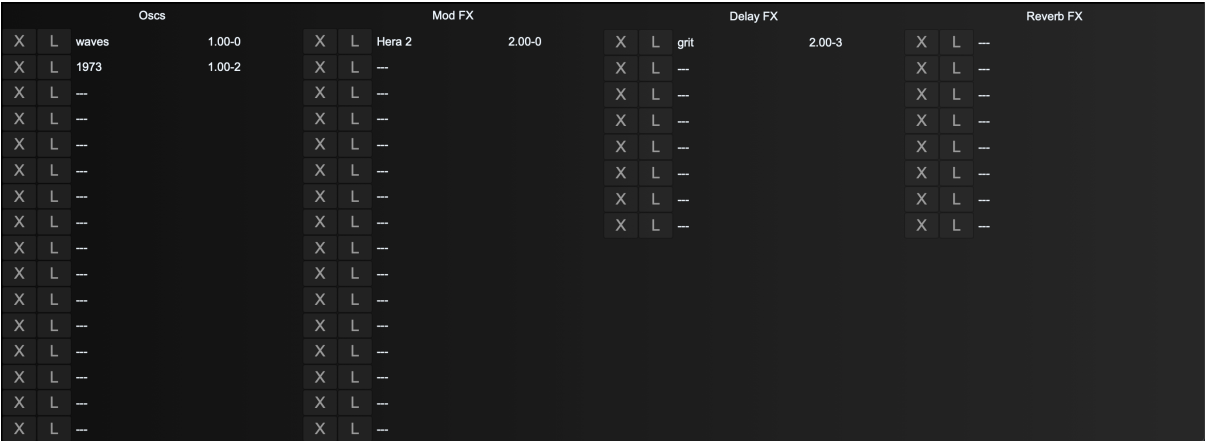
4.8.2.5 Save

Save the current step sequence to storage.

4.9 Custom Oscs/FX

Pressing the **CUSTOM** button will show the custom oscillators and FX loaded into the synth.

Hovering over an oscillator entry will give you parameter details for that oscillator.



4.9.1 Loading/Deleting Oscs/FX (Minilogue xd only)

Clicking on the **L** button will bring up a file chooser allowing you to select an oscillator/fx to upload to the synth.

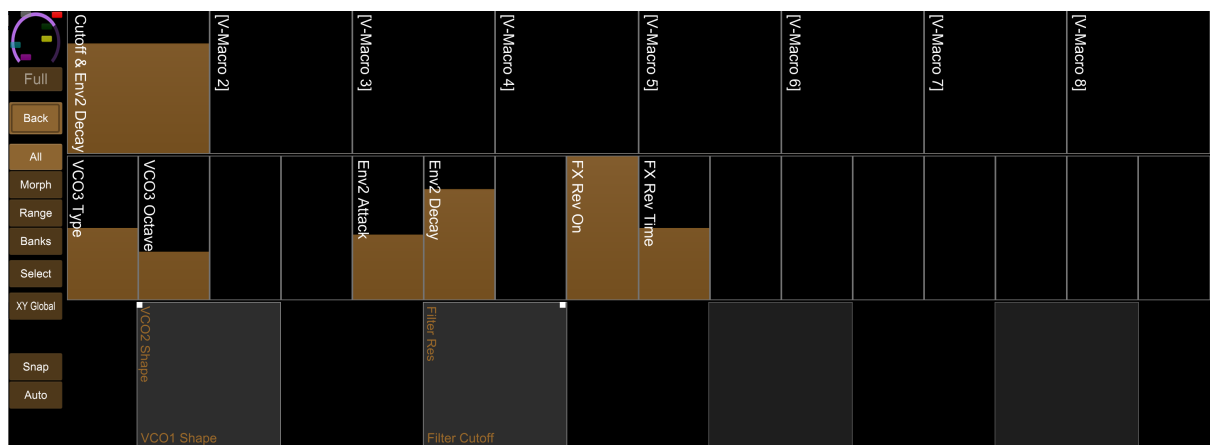
Clicking on the **X** button will empty the slot.

4.10 Performance Mode

Perform mode is primarily designed for touch screen users but can be used by anyone wishing to provide a simple view for performance control of the synth rather than patch editing and management.

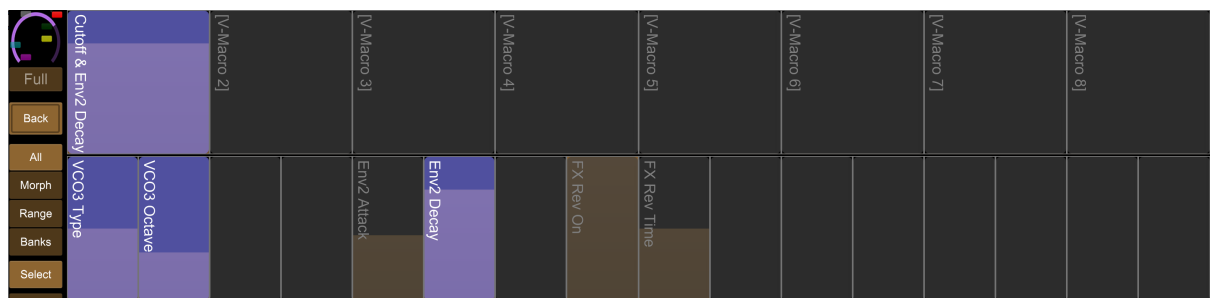
This mode consists of:

- Access to 16 user-defined control mappings
- Access to 8 V-Macro controls
- Access to 4 user defined XY controls
- User-defined control morphing
- Snapshot and Autoreset functions



4.10.1.1 Zooming Performance Controls

Pressing the **SELECT** button will allow you to select which controls are on display. If no controls are highlighted, all controls are displayed.

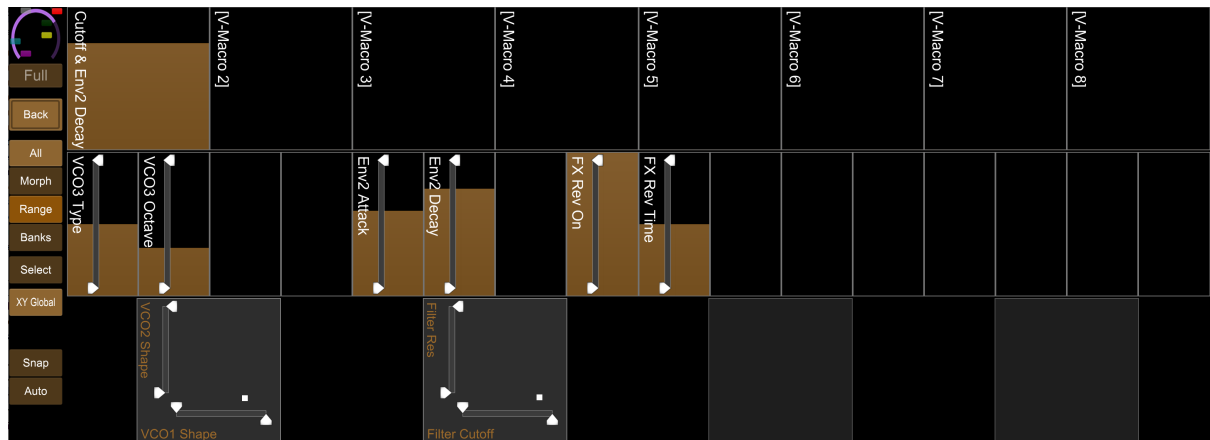


Pressing **SELECT** again will display the controls you have selected.



4.10.1.2 Setting Range of Performance Controls

Pressing the **RANGE** button will superimpose range sliders on the mapped custom and XY controls allowing you to set the minimum and maximum %age value of the control.



4.10.1.3 Morphing

Enabling the **MORPH** button will add a slider to the display to allow morphing between two custom parameter banks (see section 4.10.1.4).

Pressing the **EXCLUDE** button under the left morph control will change the **SELECT** buttons under the custom sliders into **EXCLUDE** buttons. It is then possible to define custom controls that are excluded from the morph operation.

4.10.1.4 Custom Banks

Up to 16 banks of custom parameter values can be stored and retrieved. It is also possible to morph between two banks.

Press the **BANKS** button to bring up the controls for storing banks which operate in a similar way to other banking controls.

4.10.1.5 Selecting View

It is possible to rotate through three view modes for the Performance Mode, accessible from the top control button:

- All: Shows all sliders and XY controls
- Slider: Shows all sliders
- XY: Shows XY controls

4.10.1.6 XY Controls

Pressing the **XY GLOBAL** button will toggle between viewing the global XY controls and those that have been assigned to a patch. It is possible to select which patch controls are used for the XY controls via the selection button underneath.

4.10.1.7 Snap(shot)

Engaging snapshot using the **SNAP** button will take a snapshot of the current performance controls: macros, custom controls, XY controls, channel levels, delay sends, reverb sends, mute states, master filter.

You are then free to change any of these controls and have them all reset back to their value when you engaged snapshot by another press of the button.

4.10.1.8 Auto(reset)

Engaging Autoreset via the **AUTO** button will reset each supported control (macros, custom controls, XY controls) to a specified value when the control is released.

The reset value for each control can be set by **SHIFT** clicking the control for macros and custom controls, and **SHIFT-CMD/CTRL** clicking on the XY for XY controls.

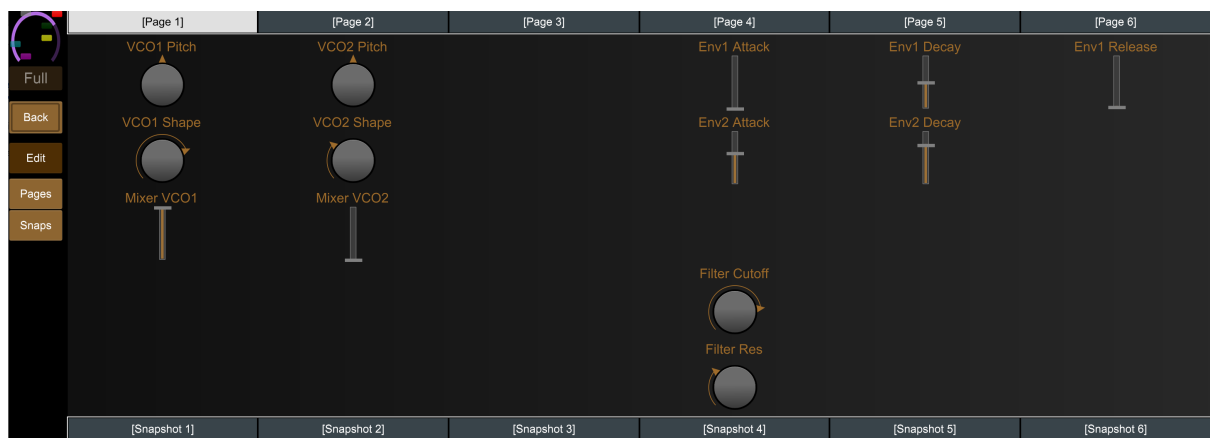
Touch-screen users: The reset values are set with a long-press of the **AUTO** button. Any controls being operated at this point will have their values updated.

4.11 User Layouts

Each user layout consists of a grid of controls that can be from 2x2 in size up to 8x8.

When running the demo, the following limitations are imposed:

- Only 1 page is available
- Only 1 snapshot is available



Clicking on the appropriate page button will load the page. SHIFT-clicking the button will allow the page to be named. Pages that are not defined (i.e. are empty) are indicated by [].

Pressing the **PAGES** button will toggle the display of the page selector at the top of the screen.

Pressing the **SNAPSHOTS** button will toggle the display of the snapshot selector at the bottom of the screen.

Pressing the **EDIT** button will change the display into the edit display.



For each cell you can specify:

- The control to be placed in the grid cell
- How the control is to be displayed (if appropriate): Rotary, Vertical Slider, or Horizontal Slider.
- Minimum value of the control (if appropriate)
- Maximum value of the control (if appropriate)

Once editing is finished, press the **EDIT** button again to return to normal operation. All updates will automatically be saved.

4.11.1 Snapshots

Each page can have up to six snapshots stored. Each snapshot stores the value of each control at the time it is saved.

To create a new snapshot, SHIFT-click the appropriate slot.

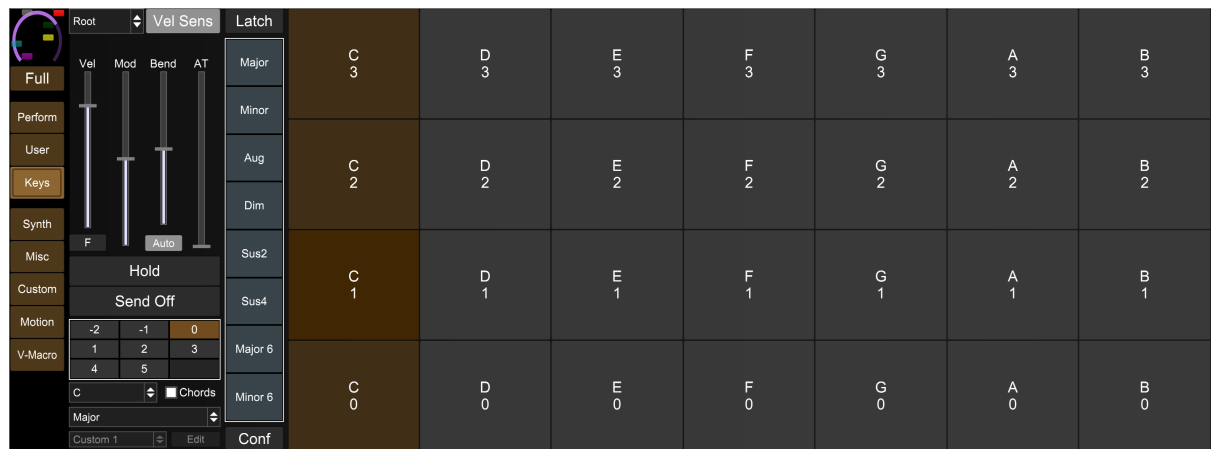


You can name the snapshot at the same time as storing it or press the **CLEAR** button to clear the contents. Snapshots that are not defined (i.e. are empty) are indicated by [].

To load a snapshot simply press the appropriate snapshot button.

4.12 Keyboard Mode

The keyboard module allows you to send note data to the synth.



When running the demo, the following limitations are imposed:

- Chord configure is not available

4.12.1 View Mode

The following view modes are supported:

- Standard – standard keyboard layout
- Iso – Isomorphic grid layout
- Root – Root note grid layout
- Piano – Piano view grid layout

4.12.2 Velocity Sense Mode

Pressing the **VEL SENS** button will enter velocity sensitive mode which will display a fewer number of larger keys. When in this mode you have the option of using the fixed velocity slider (by enabling the **FIXED** button) or using dynamic velocity using the vertical position on the key to adjust the velocity being sent to the synth.

4.12.3 Hold/Send Off

It is possible to create held notes by holding **HOLD** whilst releasing a selected note. Any held notes on a channel can be released by pressing the **SEND OFF** button.

4.12.4 Chord Mode

Enabling the **CHORDS** toggle will display 8 chord selectors which can be used to play a chord from a single keyboard pad. This is momentary by default but can be set to a latch mode by using the **LATCH** button.

When a chord is selected, the octave selector changes to an inversion selector where any inversions for the chord can be selected.

None	I
II	III

Pressing the **CONF** button will allow a chord to be selected for each slot from those available – each chord is stored along with a selected inversion, so it is possible to store different inversions in each slot.

4.13 Patch Management



4.13.1 Select Bank

Use the dropdown to select banks 0-4.

4.13.2 Select Patch

Use the dropdown to select patches in the current bank.

4.13.3 +/-

Navigate through patches one at a time.

4.13.4 Store

Store the current edit buffer at the currently selected slot. The button will turn red when there are un-stored changes.

SHIFT-click to rename the patch.

CMD-click for **STORE TO**. When storing to a different patch, the patch location is determined by the dropdown selectors to the right of the **UPLOAD** button.

4.13.5 Init

Init will initialise the edit buffer to a clean state (default parameter assignments as defined by Novation). This will not store the patch in a slot unless the **STORE** button is pressed.

Holding **SHIFT** and pressing **INIT** will initialise all 512 slots in the editor.

Holding **CMD/CTRL** and pressing **INIT** will initialise all 128 slots in the current bank.

4.13.6 Fetch

Fetch will fetch the current patch contents of the selected synth and update the edit buffer. This will not store the patch in a slot unless the **STORE** button is pressed.

Holding **SHIFT** and pressing **FETCH** will fetch all 512 patches from the synth and update the patch slots in the editor.

Holding **CMD/CTRL** and pressing **FETCH** will fetch all 128 patches in the current bank.

4.13.7 Send

Send will send the current patch contents to the synth. Most controls on the editor update the synth in real time but some have no real-time mapping. These controls are indicated by their name be surrounded in square brackets, e.g. **[Arp Gate]** and **[Arp Rate]**.

When these controls are updated the **SEND** button will turn red indicating that the patch needs to be sent to the synth for these settings to be updated.

NOTE: This button will send the complete patch to the synth, including any outstanding changes to motion and step sequence data.

4.13.8 Upload

Allows patches to be uploaded to the synth for off-line access and uploads the current editor buffer as it stands. You can select which patch slot to upload to on the synth by the dropdown selector underneath.

Holding **SHIFT** and pressing **UPLOAD** will upload all 512 patches to the synth.

Holding **CMD/CTRL** and pressing **UPLOAD** will upload all 128 patches in the current bank.



4.13.9 Load/Save Patch

Load/save a single patch.

SHIFT-click **LOAD PATCH** to load a Korg librarian patch,

4.13.10 Load/Save Bank

Load/save patch banks. Patch banks consist of all 512 patches.

CMD/CTRL-click **LOAD BANK** to load individual patch files from a specified folder. The numeric prefix at the beginning of the file will be used to determine the patch position.

CMD/CTRL-click **SAVE BANK** to save all patches to a specified folder as individual patches.

SHIFT-click **LOAD BANK** to load a Korg librarian library.

SHIFT-click **SAVE BANK** to save a Korg librarian library. You can specify how many patches you want to be saved to the library.

Save Prog Bank

Enter start patch and number of patches to store

0

500

Ok Cancel

5 Host Control

If **MIDI THRU** is enabled in setup then the following information is sent from the host to the synth:

- Note information
- CC/NRPN (controller) information
- Program Change information

5.1 Selecting Patches from Host

Patches in the editor can be loaded into the synth by sending Program Change messages on banks 16-20 with a program of 0-99. Depending on how your host numbers these elements, you may need to select banks 17-21 and programs 1-100.

Global favourites can be loaded into the synth by sending Program Change messages on bank 32 with a program of 0-15.

Plugin favourites can be loaded into the synth by sending Program Change messages on bank 33 with a program of 0-7.

6 Performance Control Automation

The performance controls are a collective name for the 4 XY controllers and the 16 freely assignable controls.

When it comes to automation of these parameters three different modes are available which can be chosen in the setup section.

6.1 None

In this mode neither the operation of the performance control or the target control is added to the host automation. Any existing automation for these controls will not be processed.

6.2 Target

When in this mode, automation is recorded for the target parameter, i.e. the control that is at the end of the XY/custom control. Any existing automation will playback as normal.

This is the default mode and recommended for hosts that support all VST parameters.

6.3 Perform

In this mode automation is recorded for the performance control itself and not for the target parameter. Existing automation will be played back for these controls which will then control the target parameters.

The main purpose of this mode is to provide flexibility in Ableton Live.

6.3.1 Automation and Ableton Live

Ableton Live only allows 128 parameters of a VST to be visible in Live at any time. The editor has many more than this, meaning that you need to choose a set of parameters to automate.

Please note this does not mean you cannot control all parameters from the UI or assign MIDI controllers to them, it just means that you cannot automate more than 128 parameters.

Whilst you can create a new mapping for each project or create your own default device mapping for the VST, neither of these offers an ideal solution, especially to adding a new parameter to automate on the fly.

Allowing you to automate the performance controls gives you up to 24 easily configurable parameters per project. Just make sure that the 24 performance controls are in your set of 128 parameters available in Live and you're ready to go – assign the other 104 to your most commonly used controls and you have the best of both worlds.

6.3.2 Happy Accidents

The bonus of this mode is that you can easily change the target of automation and keep all the recorded data. Want to see how your filter sweep sounds when controlling filter distortion instead? Or how does the decay automation you've set up sound when controlling the LFO rate instead?

7 Troubleshooting

7.1 Properties File

All MIDISynth configuration is stored in a properties file located in:

Windows: `~\AppData\Roaming\MIDISynth-xxx\MIDISynth-xxx.properties`

Mac: `~/Library/Application Support/MIDISynth-xxx.properties`

If you're having problems, it is recommended that you take a copy of this file and then remove it and see if your problem goes away. If it does, can you please send the file to midisynth@sigabort.co.uk so that it can be examined.

7.2 MIDI Monitor

The MIDI monitor can be used to solve issues if you are having them. After contacting support with an issue, you may be asked to enable this and perform actions to generate (or receive) MIDI and then send logs to support.

The MIDI monitor can be enabled in the settings panel (see 3.2.16). Using the monitor will slightly affect performance so it is recommended to only enable it for trouble shooting.



After collecting MIDI data press the **SAVE OUTPUT** button to save the output which can then be sent to support.

Enable saving to sysex, if requested, by clicking the **SAVE SYSEX** button.

When enabled, fetching a patch saves the contents to:

`~/Documents/patch_fetch.syx`

And sending a patch saves to:

`~/Documents/patch_send.syx`

Send any requested files to midisynth@sigabort.co.uk

8 Custom Properties File Settings

The following entries can be set in the properties file to change certain behaviour in the editor.

Make sure these lines are added before the closing `</Properties>` tag.

8.1 ui_dim

Changing this value will change the automatic dim setting applied to section headers in the editor. The default value is 1.0. Valid values are from 0.0 to 1.0.

```
<VALUE name="ui_dim " val="0.5"/>
```

8.2 button_corner_size

Changing this value will change the roundedness of the corners on buttons. The default value is 7. Valid values are from 0 to n.

```
<VALUE name="button_corner_size" val="0"/>
```

8.3 route_midi_clock_out

By default, MIDI clock messages are not routed over the Windows virtual MIDI ports as this may generate a lot of traffic and most people will not be interested in syncing the synth to the DAW clock.

To enable clock messages to be sent add:

```
<VALUE name="route_midi_clock_out" val="1"/>
```