

Firmware V2.0



What's new on Firmware V2.0 ?

Pattern feature

-There are tons of cosmetic UI changes.

- Setting offset parameters is not relative to the current potentiometer position anymore, but to the center position. Although it was handy to start record automation or place step locks without jumping to a position, it was pretty much impossible to know exactly what was the starting position, and you needed to only trust your ears anyway. Starting from the middle allows to use the maximum range of offset at any time.

- Visualization mode is gone : now the knobs parameter LED brightness will always reflect the current parameter value, the selected parameter is brighter than the others.

- Time quantized recording is enabled by default but can be disabled :
press [FUNC] + [Bend Rg] -> [PAGE A] disabled, [PAGE B] enabled.

- Selected parameter locking for modulation : [FUNC] + [SYNC] (selected param will blink).

- Patch load on pattern change is deferred to the first trig of newly loaded pattern (long note are not silenced at the end of the ending pattern anymore).

- Song mode : The number of patterns in a song is now unlimited.

- Pattern morphing : You can now morph between the patch and content of 2 patterns.

To select and load the "morphing pattern", in pattern selection mode, press and hold [FUNC] + [PATTERN], and select the morphing pattern. The morphing pattern blinks.

Hold [FUNC] and use the [CUTOFF] knob to morph between the two pattern : go from your active pattern fully CCW to the morphing pattern full CW. When reaching full CW position (main pattern silent, morph pattern full), the two patterns will swap : the main pattern will become the morph and vice versa. The previous morph pattern is now active and editable. To morph back, you need to go back to full CCW position and proceed !

You can save the current morph patch in a new pattern : go to pattern mode, hold [RECORD] and press a pattern slot. The patch will be created there, it will copy pattern A or B steps depending on your morph position.

- Duophonic mode : press [FUNC] + [SWING] -> [PAGE B] to enable, [PAGE A] to disable. In duophonic mode you can set a pitch for both oscillator. Hold 2 notes on the minikeyboard to set the duophonic pitch and add duophonic notes with the Seq switches. To make a duophonic step, hold the step, hold the first pitch and press the second pitch.

- Scale autoquantize : [FUNC] + [TRANPOSE] -> [PAGE A] disabled, [PAGE B] enabled.

When scale autoquantize is enabled, changing the scale will move the notes of the pattern according to the new scale, it uses a smart algorithm that works pretty well even on custom scale. The algorithm is however destructive : if you go from a 7 note scale to a custom scale of 4 notes and switch back to a 7 note scale, you won't get back the same pattern.

Expressive feature

- Expressive feature : velocity, pitchbend, aftertouch, and vertical. Each of these MIDI parameters can affect the patch according to custom offsets on any and all parameters and their modulation values, just like the accent on V1. To check or set these offsets, a switch needs to be held, when the switch is held the LED brightness shows the offset "strength" on each synth parameter. Offset can be negative, a potentiometer at center position means no offset, full CCW means maximum negative offset, full CW means maximum positive offset. Here is how the switch are mapped :

[SLIDE] -> Velocity

[UP] -> Aftertouch

[DOWN] -> Vertical [CC74]

[FOLLOW] -> pitch [pitchbend]

These MIDI parameters can be recorded on each steps, like automation when played from an external keyboard or sequencer. There are also ways to edit velocity and Vertical [CC74] automation directly on the synth, as follow.

- Vertical [CC74] : CC74 is often used for the vertical [Y] axis on expressive keyboard. To edit the CC74 of a step [regardless if there is a trig on that note or not], hold [FUNC] + the [SEQ] step, and use the X-Mod Rate pot to set the CC74 value, from 0 at full CCW to 127 at full CW. When record is enabled, you can hold [FUNC] and move the X-Mod amount pot to record CC74 values on the fly.

- Velocity : To edit a step velocity, hold [FUNC] + the [SEQ] step, and use the X-Mod amount pot to set the velocity from 0 at full CCW to 127 at full CW. When record is enabled, you can hold [FUNC] and move the X-Mod amount pot to record velocity values on the fly.

- Pitch : a pitch offset makes the parameter follow the pitch played on the synth [note +pitch-bend]. By default the 2 oscillators and the filter have an offset of 1 semitone by semitone. The filter tracking can still be enabled/disabled with the follow switch. On the two oscillators on the filter the offset is not linear but quantized, this allow for microtonal/macrotonal playing. At center position the oscs/filter don't track, there are then 6 positions on the positive and negative side : 1/8 semitone - 1/4 semitone - 1/2 semitone - 1 semitone - 1 tone - 2 tone .

- Aftertouch is the only paramater that cannot be set directly on Mono, but can be recorded via MIDI

- You can delete a step's aftertouch, CC74 and pitchbend value holding [DELETE] + [SEQ] step, and press [FOLLOW].

Sequencer feature

- Randomize step range : you can now randomize a range of step, hold [TEMPO] + [FUNC], hold the [SEQ] starting the range, and then press the [SEQ] ending the range, release, and voila !

- Randomize automation range : hold [TEMPO] + [FUNC], set the desired range by holding the first [SEQ] and pressing the end [SEQ]. Release the [SEQ] switches [not [TEMPO] and [FUNC]] then turn the desired knobs parameter left and right to set the randomisation range, just like the randomize automation feature.

- Automation on mod notes -> mod note are not "set in stone" as they used to be, they can now be affected by automations

- mod note pitch : you can edit a mod note's pitch : hold the mod note [KEY] and press [UP] or [DOWN] to set the mod note octave. hold [UP] + [DOWN] and press a [KEY] to set the current mod-note semitone. Hold a step [SEQ] that contains a modnote and press [UP] or [DOWN] to change its pitch.

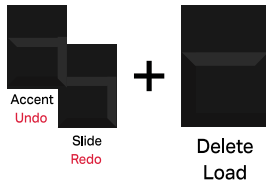
- Step dice range : since you can now randomize step ranges, step dice shortcut has changed, you need to hold [TEMPO] + [FUNC], press the end step, and then the first step of the range [the order is important].

- range copy/paste: You can copy/paste a range of steps : hold [FUNC] + [COPY], hold the start [SEQ] of the range and press the end [SEQ] to copy a range of steps. Then hold [FUNC] + [PASTE], the starting [SEQ] step where you want to paste, and then the end [SEQ].

- Page copy/paste : you can copy/paste, hold [FUNC] + [COPY] then press the[PAGE] to copy, then hold [FUNC] + [PASTE] and press the [PAGE] where you want to paste.

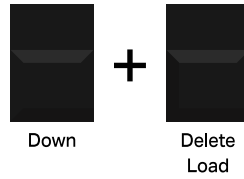
New shortcuts

Utility



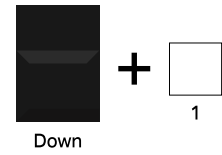
Delete Accent/Slide

Shortcut update : [ACCENT+DELETE]
instead of [DELETE+ACCENT]



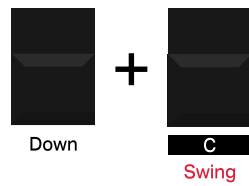
Unmute all steps/Modnotes

Shortcut update : [DOWN+DELETE]
instead of [SLIDE+DELETE]



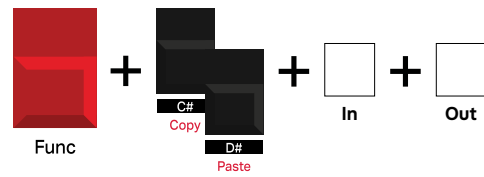
Mute/Unmute step

Shortcut update : [DOWN+SEQ]
instead of [SLIDE+SEQ]



Mute/Unmute Modnotes

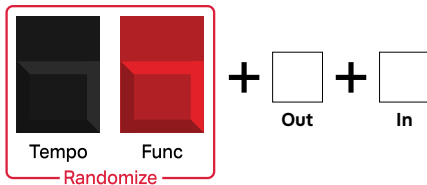
Shortcut update : [DOWN+NOTE]
instead of [SLIDE+NOTE]



Copy/Paste step range

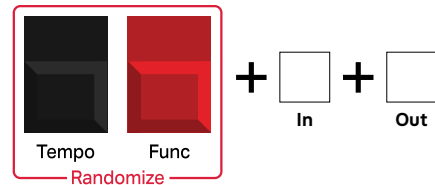
Hold [FUNC+COPY+SEQA+SEQB] to copy a range of steps, [FUNC+PASTE+SEQA+SEQB] to paste range

Randomization



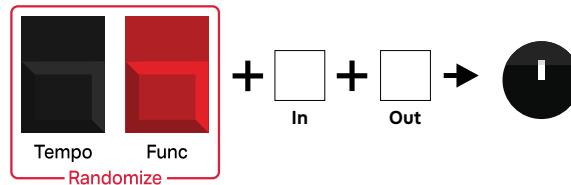
Step Dice

Hold [TEMPO+FUNC+SEQB+SEQA] to select a desired range and release [TEMPO+FUNC]



Randomize step range

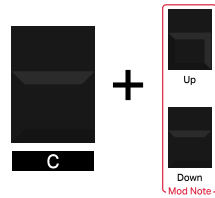
Hold [TEMPO+FUNC+SEQA+SEQB] to randomize filter parameters in the selected



Randomize automation range

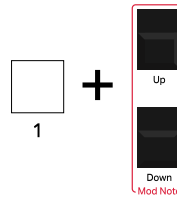
Hold [TEMPO+FUNC+SEQA+SEQB], release [SEQA] & [SEQB] first, turn the desired knob and then release [TEMPO+FUNC]

Modnote Mode



Edit Modnote octave

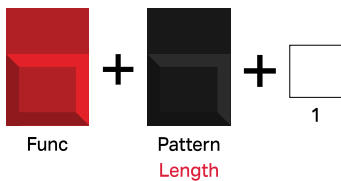
In Modnote mode, edit the octave of selected modnote holding [NOTE+UP/DOWN]



Edit step octave

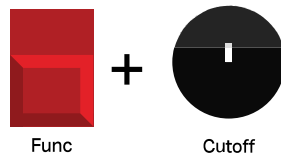
In Modnote mode, edit the step octave of the selected step holding [SEQ+UP/DOWN]

Morphing & Modes



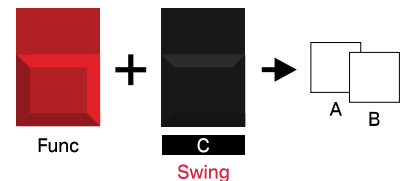
Select Morphing patterns

Select patterns you want to morph between : hold [FUNC+PATTERN+SEQ]



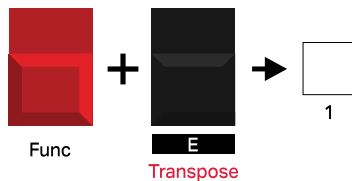
Pattern morphing

Once you have selected your patterns hold [FUNC+CUTOFF] to morph between them



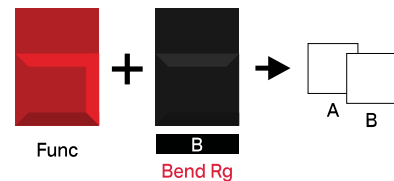
Duophonic mode

Enable the duophonic mode pressing B



Scale autoquatize

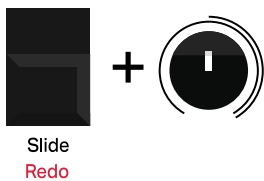
Transpose the scale holding [FUNC+TRANSPOSE] then select a scale with SEQ



Enable/disable quantize record

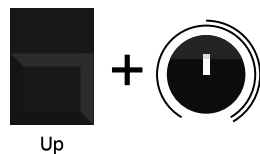
Quantize record is disable by default but can be disable : [FUNC+BEND RG+A]

Expressive control



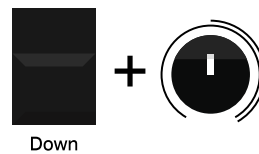
Custom Velocity

Hold SLIDE and turn a parameter to assign Velocity offsets



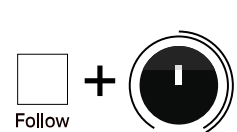
Custom Aftertouch

Hold UP and turn a parameter to assign Aftertouch offsets



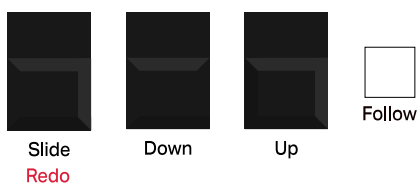
Custom Vertical

Hold DOWN and turn a parameter



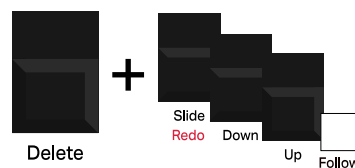
Custom Pitchbend

Hold FOLLOW and turn a parameter to assign Pitchbend offsets



See expressive offset strength

Hold an expressive switch to see the parameter strength offsets



Delete expressive step parameter

Delete expressive automation or expressive step parameters holding DELETE and associate expressive

