

KOMA Elektronik Komplex Sequencer

Firmware 2.0 - November 2017 -

Dear KOMA Komplex Sequencer User,

About two years after the initial release of the Komplex Sequencer, we are very happy to present you a – long overdue – major firmware upgrade for the Komplex Sequencer. In fact, this is not an upgrade, it is a complete rewrite of the whole code base.

We managed to slim down the code around 50%, streamlining data flow and improving time critical functionality. At the same time, we took care of workflow obstacles and introduced a few new features. Here are some of the major changes at a glance:

- Overall code rewrite enhancing general playability and reliability
- Selectable STOP behaviour switches between Stop and Reset
- Swing
- Reset function for Steps, Gates, Glides and Repeats
- 100% Gate Length (tied gates)
- Faster response to external clocks (100µs from clock to gate typically)

All the best from Berlin,

The KOMA Elektronik Team

CHANGES IN FIRMWARE V2

Section Controls – Reset Function

We added a new feature to the Section Controls, allowing you to reset your steps, gates, repeats and glides faster. This can greatly enhance your live performance and studio workflow.

For example, let's look at resetting the gates for a certain sequencer: First, access the function you want to reset, in our case pressing the GATE button in the Section Controls. You will see your set gates as blue lights appearing on the step buttons.

Now press and hold any of the 16 step buttons of the sequencer whose gates you want to reset. It doesn't matter if there is a gate set at this very step or not. While keeping that one step button pressed, press and hold the GATE button for 2 seconds. After that time, the corresponding sequencer will reset its gates. If gates were set, all step buttons will flip to "no gate" and if no gates were set, all step buttons will flip to "gate".

This works correspondingly for the other section control functions Step, Glide and Repeats. Here are the different resetting behaviours for the given function:

GATE: If gates are set for some steps, gates will be deactivated for all steps. If no gates are set, gates will be activated for all steps. If you keep the buttons pressed, the state will toggle from all steps empty to all steps filled.

STEP: If steps are activated invoking the reset function will deactivate all steps but the start step. If no steps are active all steps will be activated. If you keep the buttons pressed, the state will toggle from all steps empty to all steps filled.

REPEATS: All set repeats are reset.

GLIDE: If glide is set for some steps, glide will be deactivated for all steps. If no glide is set, glide will be activated for all steps. If you keep the buttons pressed, the state will toggle from all steps empty to all steps filled.

SSP: Reset the start step to step 1.

Stop/Reset Toggling Function

As a reaction to a popular request, we added a new feature to the Mode Menu that allows you to toggle the functionality of the STOP input. Before FW 2.0, the STOP input jack would always fully reset and stop the sequencer in question. Now it is possible to choose if sequencers are fully reset and stopped or only reset. You can change this behaviour in the Mode Menu at step 6.

Clock-Saving

The sequencer will save the speed of the clock whenever it receives a stop signal (button press, trigger, midi-stop, end of a one shot sequence). Once you start the sequencer again this speed will be used as a reference for gate length, swing etc. calculations. This solves the problem with erratic gate length etc. when starting a sequencer with a midi clock. It will save the clock speed in both clocking-modes (24ppqn (Midi) and 1ppqn (Analog)).

General Saving

Manual saving replaces the "Pull-the-wire"-Saving. In order to save the setting of the sequencers, press and hold the STEP button in the SECTION CONTROLS and press the MODE button. A successful save is confirmed by a "Knight Rider" like animation on each sequencer.

Swing

You can now set swing per sequencer, selectable in 5 different amounts. The swing approach used in the Komplex Sequencer refers to straight timing as 50%, meaning that the first step of every pair of steps takes up 50% of the time of those two notes. Setting the swing to any number greater than 50% will make the sequencer hold every second step longer. For example, at 62% swing setting, the first step would take 62% of the time available for the first two steps.

MIDI Octave select

It is now possible to change the MIDI base note for every sequencer. That means that the lowest possible MIDI note (slider being fully on the bottom) can be set in octaves, starting from C0 and ending with C9. You can select the MIDI base note by pressing step 8 and selecting a MIDI base note with the first step referring to C0 and the tenth step button to C9. So for example, selecting C4 as your MIDI base note, you have to press step button five.

End of Sequence Mode

In some situations, e.g. when chaining together synced sequencers in one shot mode, it can be limiting to have an EOS trigger at the very end of the last step. Now it is possible to change the EOS behaviour for every sequencer. You can choose to send the EOS either at the beginning of the last step or at the very end of the last step.

Start of Sequence Mode

Lets you decide whether an SOS trigger is sent only when a sequencer receives a start signal (be it MIDI or analog) or every time the sequence starts over. For every play mode except the random play mode, the SOS gets sent when the sequencer passes the SSP. In random mode, that would mean that an SOS gets sent every time the selected amount of steps in a sequence is completed and the sequence starts over again (although not necessarily at the SSP, since randomness chooses where to the next step will fall).

Display MIDI Firmware Version

In order to display the firmware version of the internal MIDI controller responsible for handling MIDI signals, press and hold the STEP button and then press the GLIDE button shortly. The MIDI firmware version will be displayed in the same fashion as the firmware per sequencer is being shown (when pressing STEP and GATE at the same time).

SUPPORT

When you have any questions regarding the new firmware or need help updating, please contact the Firmware support team via support@koma-elektronik.com and we will get you on your way!

IMPRINT

KOMA Elektronik GmbH
Weisestr. 24
12049 Berlin-Neukölln
Germany