

## ***Synth Controller manual Addendum - Edition 'uniCC'***

This edition makes the Synth Controller kind of universal Control Change sending MIDI device. It allows the sending of any CC-number on any channel. In addition you can define stepwidth or a maximum value for each knob individually. The 3 color layers still have function of addressing one of 3 layers – this means you have 48 completely independent knobs.

Assigning the CC-numbers, channels, stepwidths is not possible on the Controller itself – how should this be possible without a display? That's why we offer a browser-based online editor. You will find it on our website, jump to Products → Synth controller and select the tab labeled „UniCC EDITOR“. This is the place to edit your personalized edition. After making all of your settings you can export your collection as an editor-firmware-dump in SysEx-Format. This file can be transferred into the uniCC edition.

### ***Importing the Editor's SysEx-dump***

Do not mix up the SysEx-files coming from the online editor and the uniCC-edition SysEx-dump itself!

- The edition firmware of the uniCC-edition is the 'firmware' with all the functions to make the Synth Controller work.
- The editor dumps just contain a row of numbers describing all the Ccs, midichannels, stepwidths for each knob.

To use the uniCC edition you need to fulfil two steps:

1. Dump the uniCC edition into the Synth Controller like any other edition: hold the 1st button while powering up. Then send the edition's firmware into MIDI IN. The Controller will restart after successfully flashing the firmware.
2. now you can transfer the editor's output SysEx file into the Controller by simply sending it like you did with the firmware. While you are running the uniCC edition you can import the editor dump anytime. There is no special key combination to engage an import. The uniCC edition will recognize if the incoming data is an editor dump and update it's internal values – available again on next startup.

After the edition recognized a valid editor dump it will slowly blink the 1st LED three times. Then all LEDs will shine together and will go off one after the other, in the end the Controller restarts itself. The whole lightshow means „I received an editor dump and updated the knob's functions, everything ok“.

In some cases the basechannel of the Synth Controller might have changed due to the memory-scrambling (see chapter about EPROM) and needs to be taught again.

If you see the 3rd LED blink shortly three times this means there was an import error. Just try it again, maybe you need to tweak the transfer settings in your SysEx-dump software (please check the Synth Controller manual for details here).

By the way, there is a third kind of signal: if the middle LED blinks three times slowly this means the EPROM was initialized.

### *EPROM initialising*

If you already used the one or other edition in the past with your Controller and dump the UniCC edition there might be some EPROM memory positions which are out of valid ranges for the UniCC edition. <On each startup the Controller checks the EPROM for this case and – if necessary – initializes the content. Afterwards the Controller's uniCC edition is at factory settings:

- red layer: CC#7 / Volume for channels 1-16, stepwidth 1
- green layer: CC#10 / Panorama for channels 1-16, stepwidth 1
- blue layer: CC#11 / Expression for channels 1-16, stepwidth 1

This assignment corresponds to the online editors settings of the Init-template and the reset function.

### *Learning the basechannel*

As most editions the UniCC edition also has a midi basechannel. It will be used for knobs where you assigned the 'b' (for basechannel) in the editor instead of a fixed value. To go into basechannel learn mode keep the upper 2 buttons pressed for 2 seconds. The upper 2 LEDs start to flash. The new basechannel is extracted from the first incoming midinote and will be saved for next startup.

### *What's the use of this edition?*

The main application for the uniCC edition is using your Synth Controller as a hardware remote control for software VSTis. Most VSTi allow controlling their parameters over Midi CC messages. As you can define separate midichannels for the knobs, you could e.g. dedicate one VST for each color layer to address 3 different VSTi with your Controller.

Another set making sense would be a 16 channel midi mixer having CC#7 (volume) on one layer, CC#10 (panorama) on another and a third CC# on the third layer or anything in between the above 2 examples.