Alpha Base OS Update 1.31

ATTENTION! After updating, the unit will have the global flags intitialized including kit modes, BPM, midi settings, etc. After rebooting it shows up with „Empty Flash – Init Flags". Don't worry, the flash is not empty, only the global flags. Store the current preset with Shift / 1 and the global flags are rewritten. After the next power cycle the unit will show up with the last settings you made.

If you are updating from a very old version (<1.15), definetely do the SD card updating twice in order to initialize the flags properly! Don't worry, nothing can happen, you can do it as often as you want. Only use SDHC cards <= 16GB from Sandisk! We will not provide SysEx updates any more as these cause too many troubles because of driver problems with most recent computer OS like Apple.

What's new?

Delay BPM sync

-The Delay can be synced to the internal BPM or external midi clock. If you have actived clock sync in the Midi menu and you are in Delay Edit Mode, the Delay Time values below <012> sync to BPM and are shown with an „S" prefix:

```
D   DTime  Feedb  Spatl  DelL
L█S02    █100   _088   █127
```

The relatively small delay ram only allows for the following BPM divisions:

S01 = ¼ note (4 steps)
S02 = 1/8 note (2 steps)
S03 = 1/8 triplets
S04 = 1/16 note
S06 = 1/16 triplets
S07 = ¼* note (6 steps)
S08 = ¼ triplets
S10 = 1/8 triplets

The resulting in-time echoes can of course only be heard if feedback is bigger than 0.

BPM clock monitor

-If you have actived clock sync in the Midi menu and you are in Kit Preset Mode, the external midi clock BPM is displayed as shown:

internal

```
AlphaOne  000          120.0
████████████████        138.5
```

external

This requires that the clock is permanently sent by the host. If you start the machine internally, the Alpha Base plays back with the internal BPM speed, if started by the host it switches automatically to the external clock. This also applies for the BPM synced Delay and LFOs.

LFO BPM sync

- All LFOs of the sample based instruments can be synced to BPM or midi clock now. As Kick and Mbrane LFOs are always restarted on trigger and have a different length and structure they are kept as before.
The LFO Rate has 2 ranges now. The lower range 0..127 is BPM synced and displayed with an „S" prefix:

```
C ■LFWav  LFRat  LFTun  Vol
H■001    S008  ■005   ■127
```

We have offered almost any possible BPM dividing, and the values correspond to notes for one LFO wave cycle as follows:

001 = 2 bars (32 steps)
002 = 1 bar (16 steps)
004 = ½ note (8 steps)
006 = ¼* note (6 steps)
008 = ¼ note (4 steps)
012 = 1/8 triplets
016 = 1/8 note (2 steps)
032 = 1/16 note (1 step)
064 = 1/32 note (½ step)
127 = 1/64 note (¼ step)
The other values inbetween make x-triplets of the existing tempo.

The upper range is the same as before and not synced to clock. A free asynchronous running LFO can be interesting though for some applications.

Bug fixes

- BPM deviation fixed, calculation corrected.

- Wrong Pan settings after delay editing fixed. Users complained about wrong pannings after storing, but in fact it was the parameter mixing with delay values.

- Instrument select CC changed from CC64 to CC63 and range fixed. This was an important bug because CC64 is hold/sustain and is sent on port reset on all channels by many drivers and DAW hosts. This lead to complete freezing or memory corruption of the AB when the DAW was openend or closed.

- Automatic switch to kit edit mode when a track is selected and Edit Mode is on, even if you are in Disk or Midi Menu. If you were in Disk or Midi Menu before, the knobs appeared to be blocked, only pressing Kit/Seq again could free them.

- Data value dynamic knob speed input for easier editing.