

BEHRINGER DeepMind 12 Firmware

Version 1.0.4 - (23 February 2017)

This document constitutes a formal release of DeepMind 12 - Firmware for full public usage.

This build can be made fully available to the public.

New Feature

- Added OSC1 Fine, OSC2 Fine and OSC1+2 Fine tune modulation matrix destinations
- Allow simultaneous editing of multiple envelopes by pressing more than one envelope select switch together
- Hold POLY Edit and move Unison Detune to access shortcut to set POLY mode

Addressed Issues

- WiFi module update is now skipped if already at the latest version
- Fixed occasional distortion from effects DSP when switching away from a patch containing a RotarySpeaker effect
- Fixed stuck note when toggling hold on & off and holding keys
- Fixed notes retriggered on some patch changes when switching from arp on & hold on to arp off
- Fixed Poly Chord - Triggering arpeggiated poly chords with a duplicate root note within used to result in the note failing to trigger
- App is now updated when default program is recalled on the synth
- Portamento EXP mode not exponential
- Fixed issue where detail view of FX would not return to FX overview if the viewed effect is removed via the app
- Fixed Arp slowdown which could occur at maximum tempo & minimum clock divisor when also sending / receiving large amounts of MIDI controller data
- No longer possible to select SSID and password menu items when Wifi is enabled (must disable before editing strings)
- Improved randomness of S&H and S&G LFO waveforms and fixed MONO mode random LFO values not the same across all voices. Also phase shift now works correctly, effectively delaying the output of the MONO LFO between voices
- Fixed LFO Phase not reset on Key Down when KeySync=ON and Phase=MONO
- Fixed surface slowdown after calibrating if arpeggiator was running at start of calibration procedure

- Improved WiFi connection reliability (client mode connection could be lost when switching to program page)
- Optimised LCD drawing routines to and increased refresh rate for more responsive UI
- Fixed LCD flicker when receiving sysex dumps from the preset blender
- Fixed modulation routings None/NoteNumber/PitchBend to VCA Pan
- Optimised MIDI message throughput which fixes message slow-down in a synth connected to a DAW under certain circumstances
- Fixed modulation routing: Note Number to Pan

General Information

For reasons of compatibility it is recommended that this firmware release (v1.0.4) be used with the application v1.0.2 or later.

Update Procedure

This release note describes the public release which includes the following files.

Upgrade Tool

- DeepMindUpdater-Mac.app.zip
- DeepMindUpdater-WinPC.exe

Firmware Files

- DeepMind12-Firmware-v1.0.4-build.8.syx

DeepMind 12 Firmware Update Instructions

Note: We recommend using a USB connection to perform any updates where possible.

Please ensure that the DeepMind 12 Device ID is set to 1, this can be found in the Global -> Connectivity page on the DeepMind 12.

An updater tool has been provided for both the following platforms

- *Windows PC (Win 7 – Win 10)*
- *Apple Mac (OSX Yosemite, El Capitan & MacOS Sierra)*
N.B. Please unzip the Apple Mac tool prior to installing and running the following steps

Updating the DeepMind 12 Firmware over a USB connection:

1. Connect a USB cable to both the computer and the DeepMind 12.
2. Load the DeepMindUpdater tool.
3. Click on the MIDI device button and select the DeepMind 12 as the MIDI input and MIDI Output.
4. Close the window and click the Browse button.
5. Locate the file named 'DeepMind12-Firmware-v1.0.4-build.XX.syx', select and click Open.
6. Click the Upload Button.

The update should start at this point, showing a progress indicator on both the application and the synth as each of the component images is uploaded to the DeepMind 12 memory.

Once the upload is complete the DeepMind 12 will prompt the user to turn the unit off and back on again to complete the update.

Updating the DeepMind 12 Firmware over a MIDI Interface:

1. Connect the MIDI interface to the IN and OUT ports of the DeepMind 12 (Note: A MIDI cable MUST be connected to the DeepMind 12 MIDI OUT port so that the updater can get a response from the synth).
2. Load the DeepMindUpdater tool.
3. Click on the MIDI device button and select the MIDI interface as the MIDI input and MIDI Output.
4. Close the window and click the Browse button.
5. Locate the file named 'DeepMind12-Firmware-v1.0.4-build.XX.syx', select and click Open.
6. Click the Upload Button.

The update should start at this point, showing a progress indicator on both the application and the synth as each of the component images is uploaded to the DeepMind 12 memory.

Once complete, the synth will prompt the user to turn the unit off then back on again to complete the update.