

BEHRINGER DeepMind 12 Firmware

Version 1.0.5 - (17 March 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 CC#5 Portamento Time and Aftertouch destination options to GLOBAL > PEDAL SETTINGS.
- Added CC11 Expression as a modulation source option.
- Added support for MIDI CC7 Volume controller (controller is now assigned to common VCA Gain).
- Added Vintage Pitch Shifter effect to avoid the “glitching” that can occur with low level signals and the Dual Pitch Shifter effect.

Addressed Issues

- Fixed “hard fault” crash when pressing NO/- button to scroll left on Poly Chord screen.
- Fixed a GUI issue where the VCA level meter value would not update (unless the VCA fader was moved physically).
- Reworked VCA Calibration routine and fixed VCA gating on long attack / release envelopes.
- Fixed “cracking distortion” on A30 and other patches (we have reduced the gain feeding into the high pass/boost circuit to avoid distortion with high signal level programs. End users are strongly advised to run VCA Calibration on all voices after upgrading to 1.0.5 firmware).
- Fixed stuck note bug that could be generated when holding the MOD button to set a modulation shortcut.
- Fixed keyboard scanning crash
- Increased internal pitch resolution to fix Unison-Detune values below 16 not having an effect on oscillator pitches.
- Fixed “hard fault” crash on receiving MTC (Midi Time Code) in certain circumstances.

General Information

For reasons of compatibility it is recommended that this firmware release (v1.0.5) be used with the application v1.0.2 or later.

Please run the VCA Calibration on all voices after upgrading to 1.0.5

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-v1.0.5-build.10.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.x-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.x-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.