

SONUUS®

Voluum

Firmware Release Notes

Version 1.5.1

Introduction

The **sonuus Voluum** has firmware (internal software) which can be upgraded. This document details the changes in the various versions of firmware which have been made available.

To update firmware on the Voluum

- ① While powering-on the **Voluum**, press and hold: **active + ▲**.
- ② The numeric display now shows **UPd** to indicate firmware update mode is active.
- ③ Connect the **Voluum** to your computer via USB (if not already done during power-on).
- ④ Follow the steps in the Firmware Updater manual you have downloaded.

Version 1.5.1

NOTE: Existing settings stored in the **Voluum** will not be affected by this update.

Bug Fixes

- Foot-operated preset selection didn't work with setlists.

Version 1.5.0

NOTE: Existing settings stored in the **Voluum** will not be affected by this update.

Bug Fixes

- LFO: tap-tempo and slow tempos were not working correctly causing the tempo to be out of time in some situations.

Enhancements

- Improvements to tap-tempo to make it feel more natural.

New Features

- Added new setlist feature. Configured through the Desktop Editor, and enabled when the **Voluum** is locked. Perfect for using the **Voluum** live.
- LFO can now send MIDI clock to synchronise other MIDI equipment.
- A new "midi clock freerun" option has been added (via Desktop Editor). Previously, the **Voluum** LFO would use the MIDI clock whenever it was received, but this caused problems with LFO phase -- it couldn't be phase aligned to a sequence. This was changed so that MIDI "continue" was required before syncing to MIDI clock, thus LFO phase can now be correctly aligned to beats in a sequence. However, if you are using a MIDI clock generator that doesn't send the continue message, the LFO will never start! This new option reverts the behaviour back to the previous mode so all you need is MIDI clock to drive the LFO. The only downside is that the LFO can't be phase-aligned to MIDI sequences when this is enabled.

- Normally the expression pedal will send a 14-bit MIDI controller (a combination of the LSB and MSB controllers) when a 14-bit "MSB" controller is selected. This is great for high-resolution MIDI control, but can cause problems on old MIDI gear (buffer overflows), or get in the way if you only want a single 7-bit message to be sent rather than the full resolution (2 messages). A new option "send only 7-bit controller" will prevent any 14-bit controllers being sent -- in other words all the 128 MIDI controllers are treated as individual 7-bit controllers.
- A curve can be selected on the expression pedal MIDI controller -- rather than the default linear setting that was the only option previously.
- A preset can now override the global MIDI settings, allowing you to send on a different MIDI channel, use a different controller for the expression pedal, and even set the range limit of the expression pedal. Now when you change presets the expression pedal can send different MIDI data to control other gear.
- Expression controller (global) can be set to off, so the pedal won't send MIDI messages. This can then be overridden in the preset to only send MIDI for those presets where you want it to be sent.
- You can now prevent the **Voluum** from sending any MIDI when the effect is bypassed (Desktop Editor MIDI tab, "send MIDI when bypassed" option).
- LFOs can now send a MIDI controller to send the waveform to an external MIDI device. Each LFO (LFO1 and LFO2) can send separate controllers, or they can be combined to create a more complex waveform (set them to use the same controller).
- Volume effect can also now send a MIDI controller; useful for sending fades for example. ADSR mode also lets an ADSR MIDI waveform be sent.
- Allow "attack" in volume ADSR mode to be pedal-controlled. Now attack has a "hi" and "lo" parameters. To use it like before (no pedal control) you need to set the lo and hi to the same value (press and hold the hi/lo button on the **Voluum** when adjusting the parameter to do this from the control panel).
- New "heel-down mute" option added to the Volume effect when in pedal- and MIDI-controlled modes. This lets you select the volume response curve you want, but force volume to be full off when the pedal is in the heel-down position. It lets you be creative without sacrificing control when you want the option to fully-mute the signal.
- A new "fast" mode has been added to LFOs, which increases all the LFO divisions by 16x. This allows very fast LFOs (up to 4kHz) to give ring-mod type effects. In fast mode, waveforms with sharp edges (e.g., square) may create clicks at slow tempos. This is normal and is a result of the very fast gain change at a fast edge. Thus for slow tempos, it's better not to use fast mode. With sine waveforms there are no such problems.
- The **Voluum** has the option to add 2 external footswitches connected to the MIDI-Out socket (see **Voluum** user manual). The footswitches allow you to do preset-up

and preset-down more easily. This update extends the functionality of these switches, so either switch can now do: preset-up, preset-down, tuner on/off, tap-tempo, send MIDI controller.

Version 1.3.0

NOTE: Existing settings stored in the Voluum will not be affected by this update.

New Features

- A precision chromatic tuner has been added. Press and hold the footswitch to enable the tuner.

Version 1.2.1

NOTE: Existing settings stored in the Voluum will not be affected by this update.

Bug Fixes

- In Preset Bypass mode, some preset would not work correctly when selected as the bypass preset. Now all presets will work correctly as the bypass preset.

Version 1.2.0

NOTE: Existing settings stored in the Voluum will not be affected by this update.

Bug Fixes

- **pedal effect enable** setting would not be remembered if “On/Off (heel)” or “On/Off (toe)” was selected.
- LFO metering could display wrongly in some situations.
- Fix problems with MIDI sync. When Sync'd MIDI Start/Continue was being ignored so there could be an offset between the sequence and the LFO. This is now taken into account so the LFO should be much tighter synchronised with the MIDI Clock.

New Features

- Added phase control for MIDI-Sync'd LFO. You can now tweak the LFO phase to let it run ahead of, or behind, the beat (you have free control of the phase).
- Added new LFO/Tremolo features to let you more easily recreate vintage tremolos:

(a) **optical** mode has been added which simulates the response of an optical control element (this has a faster attack time and slower release time, whereas a VCA-based tremolo like the **Voluum** usually has a symmetric response). This can be used on any LFO waveform to give a more vintage feel to the sound, while still allowing lots of experimentation possibilities.

(b) a new **classic** waveform has been added. This can be thought of as a “half-sine” wave with a variable duty cycle. This, particularly when used with the new **optical** mode gives very authentic vintage tremolo sounds.

Version 1.1.0

NOTE: Existing settings stored in the Voluum will not be affected by this update.

New Features

- Added “preset-bypass” mode. Allows a global preset to be selected when the effect is disabled. This lets you, for example, switch between using the **Voluum** as a regular volume pedal and another effect, such as compressor or tremolo.

Version 1.0.0

This was the first firmware version.