

## Version History

# HALion 3

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### 3.1.0 (pre-release 1)

#### New Features:

- Q-Controls: adds 8 macro controls that can be assigned to almost any HALion parameter (including HALion FX parameters). Usually Q-Controls are located on the Macro Page but they can be opened in a detached window from the Sound page/ Modulation view also. Q-controls can be remote controlled via MIDI -> setup on Options Page -> Controller List.
- HALion Standalone:
  - Added a Global Tempo/Signature edit field
  - Added Load/Save of Program and bank
- HSB Format:
  - Optimized for playback performance
  - Category indexation is cached now
  - Support of files bigger than 2GB
  - Icons available
  - Display Decide-Box when writing a HSB-File with Samples of another HSB-File
  - Display Decide-Box before overwriting a HSB-File
  - Samples and fxp files inside HSB files can be updated by placing the new files with same name and folder structure on the same level in the file-system like the HSB file, see manual for details.
- Browser Page:
  - The "HALion Content" view in the Browser can now be switched to "Show categories" for displaying all installed HSB Content sorted by Category.
  - Autobrowse has better user feedback now
  - Autobrowse toggle on/off: three additional Quick Favourite Locations are available in Auto Browse Mode
  - Add Repair Fxp Files: fixes import problems with OS9 created fxps and assign a new sample path for missing samples
  - Added a play button on the separate browser window of HALion
  - Added a Key command for browser import button
  - Multi selection of fxps in the left column is now allowed
  - HALion content folder is now visible in Autobrowse mode, too.
  - Updated category list

- Keyzone Page:
  - Added Lock button in Keyzone editor
  - Added Context menu: add Load all samples
  - Added Context menu: add Unload all samples
  - Added Sample Mapping by extracting note number in filename
  - Improved info text while moving mouse on keyzone
  - Added Key Command (default P) to Play selected Sample
  - Added folder per sample
  - Added clear a key via Context Menu on the virtual keyboard
- Loop Page:
  - Sample range draggable
  - Sample range fixed or slide relative to sample start
- Program List View:
  - Added numeration of the program list on the Global Slots
  - Better handling of Drag&Drop from Browser (merge or replace mode)
  - Added 'Unload'/'Load' for all selected samples
- Option Page:
  - Added PAN as a MIDI CC destination
  - Added learn mode for MIDI CC
  - Added Volume Sensitivity parameter
  - Added Memory meter (for Virtual and Physical)

## Improvements

- Better Kurzweil / AKAI / EMU Import (release loop, special CD format, etc.)
- Dragging samples will move root-key, too (doesn't need modifiers)
- Alternate has a Start and a Stop function
- Alternate has better naming of new Step
- better CPU performance

## Fixes:

- AU version (OSX):
  - Full Multi-Out functionality enabled
  - Graphical issues fixed
  - Crashes with some hosts fixed
- HALion Standalone:
  - Fixed problems with some ASIO card (MI4, TASCAM FW-1884)
  - Better ASIO support
  - Now quits from CTRL-Q, not only from Alt F4.
  - Fixed long closing times
  - PC Setup now installs ASIO full duplex, DirectX + MME driver
- Browser Page:
  - Drop folder into window for programs could lead to a crash in Cubase SX
  - Rex2 and zgr files were loaded in "unloaded" state

- FX:
  - Inserts were not working in Drum-mode
  - Fixed FX audio-crackling
  - Autopan/Tremolo: Phase Fader now has functionality
  
- Global Page:
  - Volume error could occur between -5 and -7 dB
  - Volume now adjustable in 0.1 steps
  - Solo Status were saved only for one channel
  - A Crash could occur if transpose was used in its full range
  - Fixed audio-crackles when more than 1 slots used the same program
  
- OSX specific:
  - File and directory names with Japanese characters weren't read by browser
  - HALion didn't redraw properly in Cubase SX/SL/SE 1.x
  - Removing a HALion instance could crash SX 2
  - Several Performance problems fixed
  - HALion standalone could lock up after drag and drop from desktop
  
- Key activates sample leads to a shivery and changing mouse cursor
- Mod presets didn't recall CC when Shift was used
- Fixed some graphical issue for Japanese version
- Crackles could occur when switching between HALion pages
- Relative edit failed with mouse wheel
- Fixed Hanging notes in some configuration with overlap/pedal Sustain Note: to avoid note-hanging in Cubase you need to activate the Option "Reset on Stop". There are still some very rare conditions left in Cubase versions that may lead to note-hanging; these will be fixed in future Updates in these versions
- Using Max Channel settings (64 stereo, 64 mono, 12 5.1) could lead to a crash
- Alternate: using directly key switch now set the correct step
- Copy/Paste didn't include the enclosing folder
- Selecting Samples in Keyzone or with Virtual Keyboard didn't update envelope view
- Fixed DC offset in some context
- Moving sample in the program List View to location out of view wasn't possible

### 3.0.1

#### New Features

- Caching category of fxp files
- HSB Content: added "Remove from HALion Content" right-click command
- Added 2 new User-Categories "Favourites" (3 before, total now 5)
- User-Categories "Favourites 1-5" can now be renamed by keeping Ctrl pressed when selecting.
- Added "Save Bank..." in Global Archive menu
- More practical numerical changes with mouse wheel for text edit

#### Fixes

- RAMsave: when loading fxp, fxb or a Project samples are loaded in unloaded state
- Fixed: FX Send didn't "send" until it is moved
- Installer can now register HALion3 as DXi (optional) in non CD-ROM version / Updates
- Browser now moves deleted files to trash
- When multiple Samples are dragged to virtual keyboard the root key is set correctly now.
- HSB: Fixed a Bug that could lead to a crash due to playing HSB Content while loading other HSB Content.
- Fixed no indication of muted folders
- Fixed not being able to cut a program with folders and then paste
- Fixed various Autobrowse bugs
- Creating new Folder in Program list is now correct when there is already a folder
- Sample import now acknowledge names containing "-" (minus)
- Improved Roland disc conversion speed
- Improved Kurzweil Import (Disc Detection, Multisample support, Layer transpose, Loop)
- Some Kurzweil CDs could lead to a crash. Fixed.
- Fixed looping problems when using set B of the loop
- Fixed a problem where CC10 could mute sounding notes
- Autopan / Tremolo FX: The Phase Fader now works as intended
- Tape Delay FX: Added scrollbar to access last 2 parameters
- DCA Bypass now works like in HALion 2.x
- Cursor keys now works in Browser View
- Fixed several graphical issues on Mac & PC
- Fixed a possible crash while loading a 2<sup>nd</sup> project in Cubase / Nuendo
- Reload of Samples to RAM if programs are moved outside of Global 16 didn't work correctly. Fixed.
- Fixed a crash with Ableton Live 4 during HALion initializing. Remark: currently HALion doesn't recall it's settings in Live 4. This will be fixed in an upcoming Live update and is not a HALion issue.
- Loading "HALion 2 fxps or Projects that used HALion 2 could lead to HALion not finding Samples immediately. Fixed.
- Standalone version didn't support Wheel. Fixed.
- Optimized selecting and renaming Folders.
- OSX: Samples were sometimes not found. Fixed.
- OSX: Reduced Drawing in Keyzone when selecting samples with the
- OSX: crashes on Japanese OS fixed
- OSX: fixed crashes when loading a bank file without extension
- OSX: the "Do not show this message again" checkbox is working now

- Long close times for unembedded fxps extremely reduced by code optimizations.
- Mac: Fixed a crash when deleting a few samples out of a huge amount of samples.
- Fixed a crash when multiple instances of HALion3 were loaded with 256 voice buffers.
- HALion 3 caused Cubase SX 2 to not retain "can hide" status in the mixer for HALion 2 channels. Fixed.
- Mac: Installer trashing disk permissions for many folders. Fixed.
- PC: Pressing "Abort" during AKAI CD import seemed HALion 3 to freeze for a while. Fixed.
- Browser not clearing last state after re-instantiation or re-launch of the host application when the browsing target did not exist any more. Fixed.
- Fixed the browser alert "*Samples not found*" although samples were there and a new search did find the samples.
- Mac: Auto map to program FX was not working. Fixed.
- Mac: At high zoom-resolution the sample-names were not be displayed vertically. Fixed.
- Mac: The loop display on the loop page was not updated when "Clear all" was executed. Fixed.
- When the keyboard was zoomed-in to its maximum the click range of black keys was a few pixels too far left. Fixed.
- Removing content files from the content list was not possible. Fixed.
- Assigned key commands for solo, and mute in programs list did not work. Fixed.
- HALion 3 multiple 'Copy loop to release loop' failed. Fixed.
- Feeling when turning knobs improved.
- Using the mouse to change numerical fields improved.
- Loading Bösendorfer fpx lead to crashes. Fixed.
- Mac: 'Enable controller in release' option from sound-page → mode had no function. Fixed.
- Mac: In the HALion3 standalone application the key commands were broken. Fixed.
- When Importing HALion 2 programs into HALion 3 balanced volume was not imported properly. Fixed.
- Mac: CPU Overload when switching pages while playing has been fixed.
- Switching Programs in the program list did redraw too often the other views. Fixed.
- Mac: Crash after loading a .hsb bank.
- Autopan/Tremolo: Shape parameter can now be edited properly.
- HALion stand-alone version: ASIO drive audio pair channel select was not possible. Fixed.
- Can't control Mod-Ball by keyboard Mod-Wheel. Fixed.
- Crash or freeze when exiting Cubase SX 2 after inserting eight HALion3s. Fixed.
- PC: "*Offset*" amount cut off on sound page on Japanese Windows. Fixed.
- PC: "*Peak of allocated Voice*", "*Reset All 'Don't ask again' Message...*" and "*Full Quality during Export (Mixdown)*" were cut off on Japanese Windows. Fixed.
- Archive/Save Program did not save the samples in subfolders. Fixed.
- Mac: Type search item into browser search lead sometimes to a crash in Nuendo. Fixed.

- Mac: HALion 3 crashed host on 'Revert to saved' or project close. Fixed.
- Mouse wheel failed in browser unless it was used elsewhere first. Fixed.
- Macro page failed to show parameters until the program selection was reconfirmed. Fixed.
- Trouble selecting the correct folder on certain circumstances. Fixed.
- Keyzone view: Keyboard to delete folders often didn't seem to work. Fixed.
- Changing output configuration created a softsynth track. Fixed.
- Key commands were not saved with standalone version. Fixed.
- Logic Audio + AudioUnit and HALion3 plus QuickTime lead to a crash. Fixed.
- Up/down arrow keys did not deselect all other samples. Fixed.
- PC: HALion stand alone version stops receiving MIDI after buffer size change. Fixed.
- Mac: AudioUnit parameter typing via keyboard was not working. Fixed.
- HALion3 cannot reconcile samples loaded into slots which are not assigned to global at time of loading. Fixed.
- Live 4 didn't save HALion setting (bank). Fixed.
- Presets sometimes loading out of tune when running at 48 kHz. Fixed.
- Problem with chromatic drag and drop mapping fixed.

#### **Issues and Solutions:**

- Mac: Stop the playback before loading a HSB-File otherwise the warning "*File is corrupt*" may appear.
- Mac Audio Unit Host: The HALion GUI is not shown completely if you open a song which has HALion loaded and opened. Solution: Close the HALion windows and open it again; the graphical artefacts disappear.
- Mac Audio Unit Host: HALion 3 does not work properly with Logic 5.5.1. Solution: Use Logic 6.x.
- PC HALion 3 stand alone version: HALion stops receiving MIDI after changing the buffer size in device control panels. First solution: Restart the stand alone version of HALion 3 after changing the buffer size in device control panels. Second solution: Use HALion 3 with another host.
- Mac: HALion 3 AU and Logic and QuickTime may lead to a crash. The reason lies within the video codec QuickTime is using. Solution: Use DV as video codec.
- Cubase SX, Cubase SL and Nuendo do not receive the program assignments from the HALion program list and the global page. Solution: Set the program changes in the inspector of the host application prior to set the assignments in HALion.

## HALion 3.0.0 - Feature Overview

### General

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Up to 32 Bit / 384 kHz file support (Host dependant)

256 Voices per instance, several instances loadable simultaneously

16-way multi-timbral with an individual editor for program selection

128 programs per instance, unlimited layers per program

Full individual parameter set for each sample if required, ideal for drum sounds

Notch / High Pass / Low Pass / Band Pass 12 dB and 24 dB Filter as well as fantastic sounding Waldorf filters, and Fatness function for Overdrive filter sounds

Keyzone Editor for quick mapping of keyzones, samples, sample layers and velocity values with drag n drop support and several automapping modes

Ultra-flexible internal routing management:

Up to 256 freely configurable outputs per instance

5.1 surround support

All new realtime FX: Reverb, Phaser, Talkbox, Delays, EQs, BitCrusher, AutoWahWah and much more (27 FX total)

Insert effects can be applied to individual samples, samplegroups or entire programs

Effects sends can be sent to HALions internal Send effects or directly to the VST mixer thru configurable outputs to share Plugin Resources between the Host and HALion

Integrated Waveloop Editor with crossfade, snap to zero, loop, release loop, loop tuning settings

Total recall: all settings are saved with your song

Sample-accurate timing and automation thanks to perfect VST integration

Archive function, transfer of entire projects to other computers with zero hassle

RAMSave™ technology: HALion 3 dynamically scans through an entire project, and unloads any sample from the computer's RAM that isn't needed. Samples can be reloaded by one mouse-click.

Modulation, Megatrig, Alternate and Browser view can be opened simultaneously in a separate window

### Modulation

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Huge array of modulation possibilities, HALions Modulation Matrix can modulate virtually anything by anything.

2 synchronizable envelopes with up to 32 freely editable points, intuitive handling

32-stage STEPenvelope as free modulation source

2 LFOs, synchronizable to the host application

MegaTrigg function to activate/switch samples via controllers or keys and trigger them with Pedal or NoteOff command for perfect GIGA import

Introduce Alternate Mode for most realistic Drum Sounds or Stringbow up/down movement emulation, etc. (during repetition a different sample with a slight variation will be played with each new note on message)

Second-Strike Technology allows overlapping Notes of the same pitch to play different Samples

Two different Legato Modes

Sample Start offset can be modulated by any Modulation source

Freely assignable MIDI Controllers

4 Velocity curves

### Advanced GUI

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Sleek GUI – HALions semi-modular approach shows the User all important sound shaping parameters on one page for always-easy editing

MacroPage View for small screen size and showing only the most important parameters!

Virtual keyboard for auditioning sounds

Stacking and layering of programs is only one mouse click away

Preset System for all envelopes, modulation setups and Keycommand settings for quick loading of individual settings for each program

Freely assignable Key Commands

### Resource Browser

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HALions new Browser features Drag & Drop and Preview support for easy loading and importing of programs, folders and samples!

Existing HALion programs or banks on the Harddisk can be "browsed" without loading, allowing Users to load only one program out of a bank file or a Samplegroup out of a programfile.

Advanced drag&drop and auto-mapping of Samples in the Keyzone: drag Parts from Cubase onto HALion, drag Samples from your Desktop to HALion, drag Samples, SampleFolders, Programs or several Programs at once from the Browser to HALions Programlist or Keyzone or Virtual Keyboard to load your sounds. Several Options

Assign dozens of HALion Sounds at once to a category in the Browser.

New database functions allow you to index all Sound Content on all your hard drives simultaneously and search by Keywords and Categories!

Powerfull Favorites System for jumping fast between often used Locations

Browser can be opened simultaneously in a separate resizable Window

### Import Formats

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HALion features the most top-rate format conversion available today:

AKAI, E-MU, Roland, Kurzweil, GIGA, Kontakt, EXS24, SF2, LM4, LM4 MkII, REX, ZeroX BeatCreator, WAV, AIF, SD II (Mac only), ISO & Nero & Toast Disc Image

### Content

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Wizoo Sound Library with high-quality sample content

5.1 surround content by Wizoo included

3<sup>rd</sup> party Demo Content

### Effect List

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Hall reverb  
Non-linear reverb  
Early reflections  
Simple delay  
Stereo delay  
Tape delay  
Chorus  
Ensemble  
Flanger  
Phaser  
Pan / Tremolo  
Rotary speaker  
Stereo width  
Wah pedal  
Talkbox  
Shelf EQ  
Parametric EQ  
Enhancer  
Limiter  
Compressor  
Multiband compressor  
Gate  
Distortion  
Overdrive  
Amp simulator  
Bit reduction  
Modulator (ring / amp / vocode)