

# **Evo Touch**

FLUX:: Immersive

2/6/23

# Table of contents

|          |                                   |           |
|----------|-----------------------------------|-----------|
| <b>1</b> | <b>Introduction</b>               | <b>4</b>  |
| <b>2</b> | <b>General Settings</b>           | <b>5</b>  |
| 2.1      | Bypass . . . . .                  | 5         |
| 2.2      | Skin . . . . .                    | 5         |
| <b>3</b> | <b>Module Settings</b>            | <b>6</b>  |
| 3.1      | Input . . . . .                   | 6         |
| 3.1.1    | Input Gain . . . . .              | 6         |
| 3.1.2    | Drive . . . . .                   | 6         |
| 3.2      | Touch . . . . .                   | 6         |
| 3.2.1    | Mode . . . . .                    | 7         |
| 3.2.2    | Amount . . . . .                  | 7         |
| 3.2.3    | Release/Range . . . . .           | 8         |
| 3.2.4    | Frequency Range . . . . .         | 8         |
| 3.2.5    | Listen . . . . .                  | 8         |
| 3.3      | Output . . . . .                  | 9         |
| 3.3.1    | Output Gain . . . . .             | 9         |
| <b>4</b> | <b>Geek Settings</b>              | <b>10</b> |
| 4.1      | Slope . . . . .                   | 10        |
| 4.2      | Release . . . . .                 | 10        |
| 4.3      | Bandwidth . . . . .               | 10        |
| 4.4      | Zero Crossing Threshold . . . . . | 11        |
| <b>5</b> | <b>Plugin Settings</b>            | <b>12</b> |
| 5.1      | Main Setup . . . . .              | 12        |
| 5.1.1    | UI Refresh Rate . . . . .         | 12        |
| 5.2      | I/O . . . . .                     | 13        |
| 5.2.1    | Input / Output . . . . .          | 13        |
| 5.2.2    | Config . . . . .                  | 13        |
| 5.2.3    | Layout . . . . .                  | 13        |
| 5.3      | Processing . . . . .              | 13        |
| 5.3.1    | Report Latency . . . . .          | 13        |
| 5.4      | Automation . . . . .              | 13        |
| 5.4.1    | Multithread . . . . .             | 13        |

|          |   |           |
|----------|---|-----------|
| 5.5      | OSC . . . . .   | 13        |
| 5.5.1    | Enable . . . . .  | 14        |
| 5.6      | Version Information . . . . .   | 14        |
| 5.7      | User Manual / Credits . . . . .   | 14        |
| <b>6</b> | <b>Preset Management</b>  | <b>15</b> |
| 6.1      | Preset Sections . . . . .   | 15        |
| 6.2      | Save . . . . .  | 15        |
| 6.3      | Copy A / Copy B . . . . .   | 15        |
| 6.4      | Morphing Slider . . . . .   | 16        |
| <b>7</b> | <b>Preset Manager</b>   | <b>17</b> |
| <b>8</b> | <b>Specifications</b>   | <b>20</b> |
| 8.1      | Availability . . . . .  | 20        |
| 8.2      | Processing . . . . .  | 20        |
| 8.3      | Hardware Requirements . . . . .   | 20        |
| 8.4      | Software License Requirements . . . . .                                   | 20        |
| 8.5      | Compatibility . . . . .   | 21        |
| 8.5.1    | Windows – 10, in 64 bits only. . . . .                                    | 21        |
| 8.5.2    | macOS (Intel and ARM) . . . . .   | 21        |
|          | <b>Appendices</b>   | <b>22</b> |
| <b>A</b> | <b>Release Notes</b>  | <b>22</b> |
| A.1      | Build 23.1.0.50251 - All plugins . . . . .                                | 22        |
| A.1.1    | New features . . . . .  | 22        |
| A.1.2    | Bugs fixes . . . . .  | 22        |
| A.1.3    | Known issues . . . . .  | 23        |
| A.2      | Build 21.12.0.50123 - All plugins except TRAX and StudioSession . . . . . | 23        |
| A.3      | Build 21.11.0.50107 (HEar, IRCAM Verb) . . . . .                          | 24        |
| A.4      | FLUX:: Immersive - Plugins (including IRCAM Tools) 21.09 . . . . .        | 24        |
| A.4.1    | Build 21.9.0.50083 . . . . .  | 25        |
| A.5      | FLUX:: Immersive - Plugins (including IRCAM Tools) 20.12 . . . . .        | 25        |
| A.5.1    | Build 20.12.0.49880 . . . . .   | 26        |
| A.6      | Known Issues . . . . .  | 26        |

# 1 Introduction

[Product Page](#) | [Shop Page](#)

## EVO Touch - The icing on the cake that brings out the magic !

The Final Touch module EVO Touch, also available in EVO Channel, is a polymorphic section offering a variety of different processors designed to adapt to the requirements of the material, with seven different processing modes including a frequency dependent DeEsser, Expander and a Transient and Sustain Designer.



## 2 General Settings

### 2.1 Bypass

Global bypass, when pressed, the signal is routed directly from the inputs to the outputs.

Value Range : Enabled/Disabled

Default Value : Disabled

### 2.2 Skin

The look of the EVO Touch user interface.

Value Range : Light/Dark

Default Value : Light

## 3 Module Settings

### 3.1 Input

#### 3.1.1 Input Gain

The input gain control trims the level of the signal at the input of EVO Touch. The meter shows both RMS signal (VU-Meter, blue) and peak signal (peak meter, green), from -24 to +18 dB range, referenced at -18dB.

Value Range : -24.0 dB / +18.0 dB

Colors : - Blue : RMS Value - Green : Peak Value

Default Value : 0.0 dB

#### 3.1.2 Drive

In EVO Touch a signal Drive is available direct at the input Gain for restoring and maintaining the vitality of the sound.

The drive module has been specially designed to add a soft saturation and warmth to your audio tracks.

Value Range : 0% / 100%

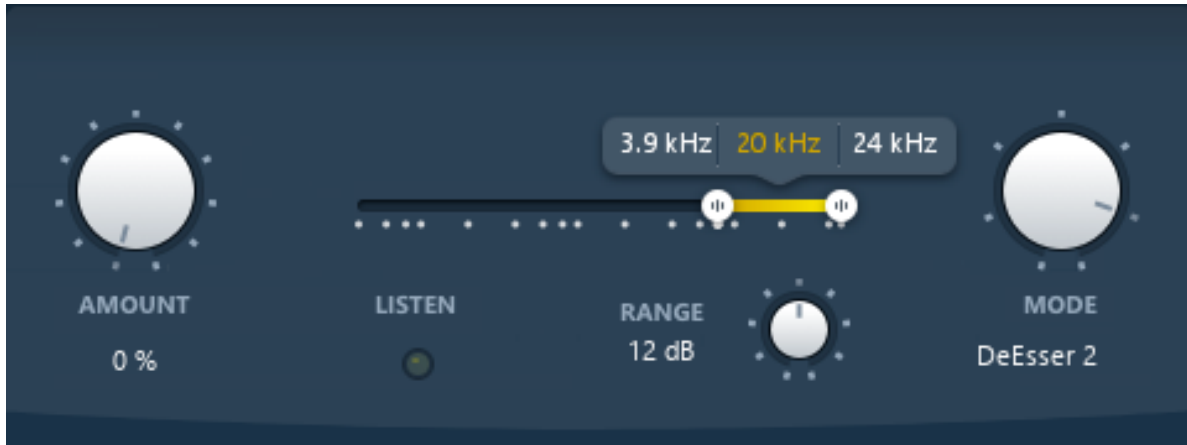
Default Value : 0%

### 3.2 Touch

Different types of material require different tools, whether it's a vocal cut, drums, guitar, piano or something else, it requires the accurate specific treatment for the material.

The Touch module in EVO Touch is a polymorphic section offering a variety of different processors designed to adapt to the requirements of the material, with seven different processing modes including a DeEsser, Expander and a Transient and Sustain Designer.

With the adjustable signal flow in EVO Touch the Touch module can be inserted where it's best doing its job, like having the DeEsser or Expander first in the flow, or the Transient designer after the compressor.



### 3.2.1 Mode

Mode parameter defines the processor used by the touch module. Seven different modes are provided.

Available modes :

- Transient Boost
- Transient Kill
- Sustain Boost
- Sustain Kill
- DeEsser 1
- DeEsser 2
- Expander

Default Value : DeEsser 2

### 3.2.2 Amount

The amount of signal processed by the Touch module.

Value Range : 0% / 100%

Default Value : 0%

### 3.2.3 Release/Range

There is a release parameter for the following modes :

- Transient Boost
- Transient Kill
- Sustain Boost
- Sustain Kill
- Expander

Value Range : 1ms / 1000ms

Default Value : 20ms

The two deesser modes offers a range parameter, to limit the maximum gain reduction.

Value Range : 0dB / 24dB

Default Value : 12dB

### 3.2.4 Frequency Range

The Touch module works on a defined frequency range.

Value Range :

Minimal bound : 20Hz

Maximal bound : Sampling Rate / 2

Default Value :

Inferior bound : 3.9kHz

Superior bound : up to Sampling Rate / 2

Range width : Depends on the sampling rate.

### 3.2.5 Listen

When enabled, you can monitor the actual signal setup with the frequency range.

Value Range : Enabled / Disabled

Default Value : Disabled



## 3.3 Output

### 3.3.1 Output Gain

The output gain control trims the level of the signal at the output of EVO Touch. The meter shows both RMS signal (VU-Meter, blue) and peak signal (peak meter, green), from -24 to +18 dB range, referenced at -18dB.

Value Range : -24.0 dB / +18.0 dB

Colors : - Blue : RMS Value - Green : Peak Value

Default Value : 0.0 dB

## 4 Geek Settings

These settings are available by clicking on the “Yves Jaget” icon.

### 4.1 Slope

The Slope sets the number of frequency-dependent components controlling the slope of the frequency response. One component, referred to as 1 (First-Order), gives a 6 dB/Octave slope, adding a second component, referred to as 2 (Second-Order), gives a 12 dB/Octave slope etc. The higher the Frequency Order is, the steeper the slope of the frequency response becomes.

**Value Range:** 6 / 12 / 18 / 24 - dB Per Octave

**Default Value:** 6 dB/o

### 4.2 Release

Adjusts the release time for the transient processing envelope.

**Value Range:** 0.00 ms / 500.00 ms

**Default Value:** 0.00 ms

### 4.3 Bandwidth

**Value Range:** Static BW/Dynamic BW/Flat Sum

**Default Value:** Static BW

Static bandwidth provides a constant Q factor, no matter of the gain factor of the filter. It's computed by having a constant bandwidth at +- 3 dB from 0 dB.

Dynamic bandwidth provides a dynamic Q factor, dependent on the gain factor of the filter. It's computed by having a constant bandwidth at +- 3 dB from peak levels of the filter.

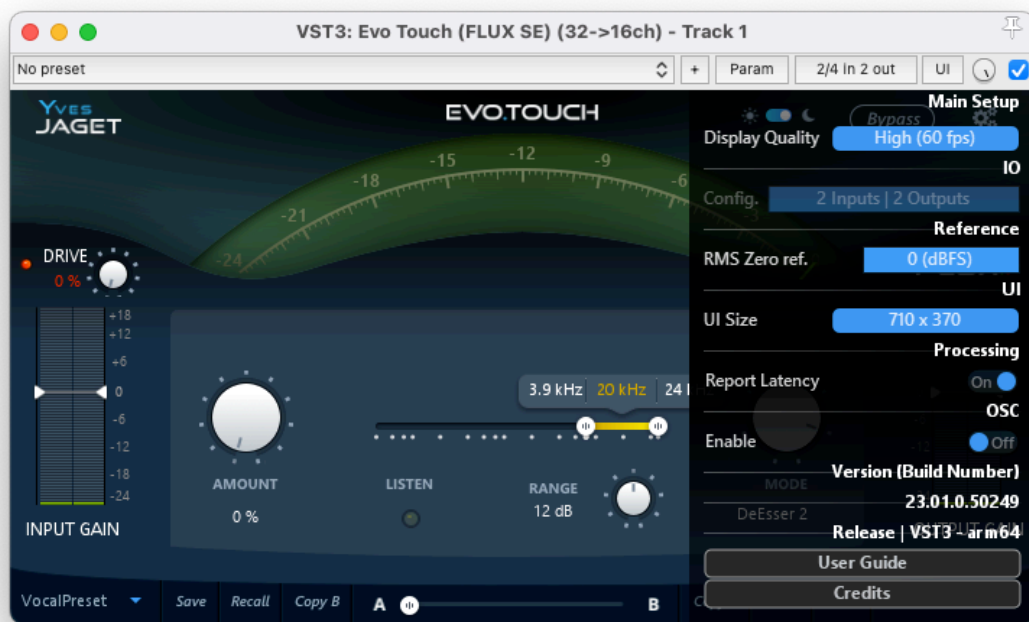
Flat Sum is a more traditional way of computing the Q factor. The bandwidth is constant for the gain factor divided by two.

## 4.4 Zero Crossing Threshold

The Zero Crossing refers to the amount of time the signal crosses the point of an amplitude of zero. It gives an indication on transient detection, as they tend to produce bursts of zero crossing.

## 5 Plugin Settings

Clicking the cogwheel symbol opens a window with a range of general settings and a direct access button to the user manual.



### 5.1 Main Setup

#### 5.1.1 UI Refresh Rate

Max refresh rate of the plug-in's UI.

## **5.2 I/O**

### **5.2.1 Input / Output**

I/O Config and Layout is not always available, though it is always displayed, it can only be edited in some configurations and formats.

### **5.2.2 Config**

Current I/O configuration, is only available in certain VST hosts; typically hosts with limited capabilities for handling multichannel configurations.

### **5.2.3 Layout**

Available I/O routings based on current I/O configuration. Layout is available for editing if more than two input channels are available. If the Layout is changed from the default value, an asterisk \* is displayed next to the Layout information in the Input section.

## **5.3 Processing**

### **5.3.1 Report Latency**

Enables/Disables the latency reporting to the host.

## **5.4 Automation**

### **5.4.1 Multithread**

Enables/Disables Multithread Automation.

## **5.5 OSC**

OSC is available in EVO Touch.

### **5.5.1 Enable**

Enables/Disables OSC control and mapping of the plug-in's parameters.

## **5.6 Version Information**

Plug-in version and build-number information.

## **5.7 User Manual / Credits**

Quick link to the User Manual. Plug-in creation credits.

## 6 Preset Management

EVO Touch, as well as all other Flux:: plug-ins, provides two preset slots referred to as slot A and slot B, which provide access to two sets of parameter settings simultaneously. In addition to just recall the settings for each of the slots individually and alternate between their settings, a morphing slider is provided offering the possibility to morph between the slots and their corresponding settings. When clicking on one of the preset slots, the built in preset manager appears.



### 6.1 Preset Sections

EVO Touch provides two preset sections referred to as section A and section B, offering simultaneous access to two full sets of parameter settings. Clicking the A section (bottom left) or the B section (bottom right), or clicking the arrow in the Current Selected Preset display, opens a new window accessing the built-in preset manager.

### 6.2 Save

Save replaces the selected preset by a new one under the same name featuring the current settings. If you want to keep an existing preset without your new modifications, just select an empty place into the preset list, enter a new name for this modified preset featuring the current settings and press Save. Recall

Once a preset is selected from the preset list it must be explicitly loaded into section A or the section B by using the recall button. A preset is effective only after it has been recalled.

### 6.3 Copy A / Copy B

The current parameters of a section are copied to the other one. The section A or B is re-initialized with the current values and the morphing slider is parked at 100% of the corresponding section.

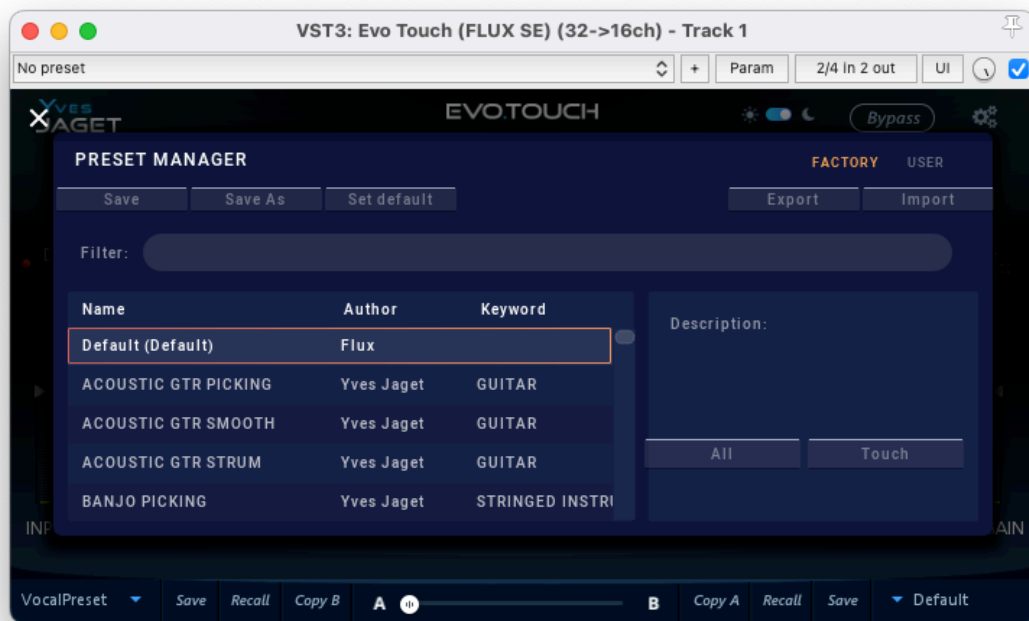
## 6.4 Morphing Slider

Morphs the parameter values of both parameter sections, it has no unity or specific value display; it provides morphing of the current values from both of the parameter sections (A & B). A double-click on one side of the slider area toggles between the two parameter sections. The actual result of the morphed parameter settings can be saved as a new preset.



## 7 Preset Manager

The preset manager contains two preset banks, the Factory bank contains factory presets, this bank is not available for saving of presets but any of the presets can be loaded into a preset slot and then saved into, the User bank, where all user presets are saved.

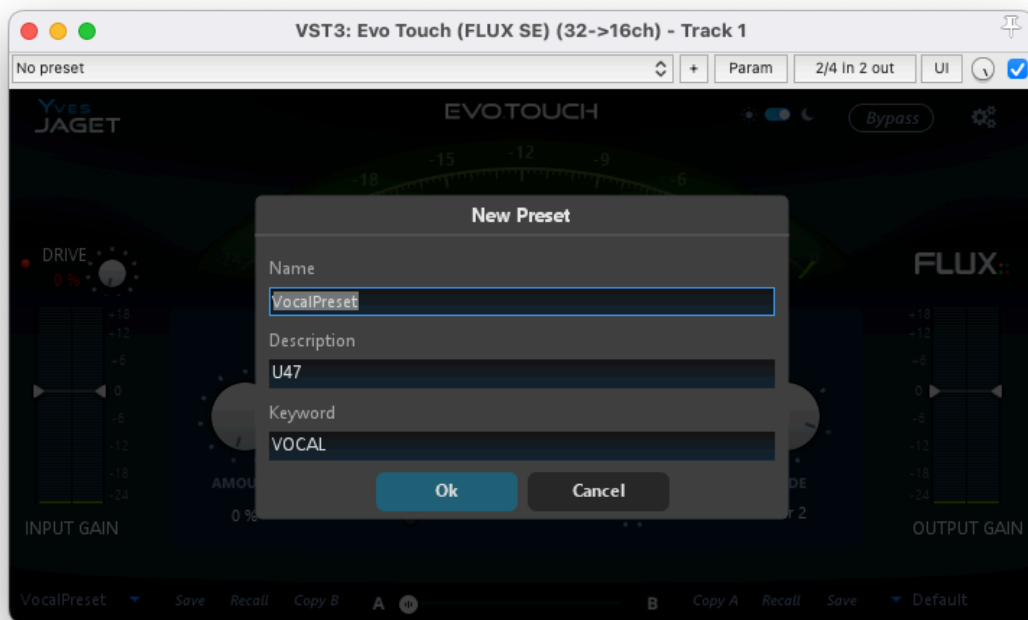


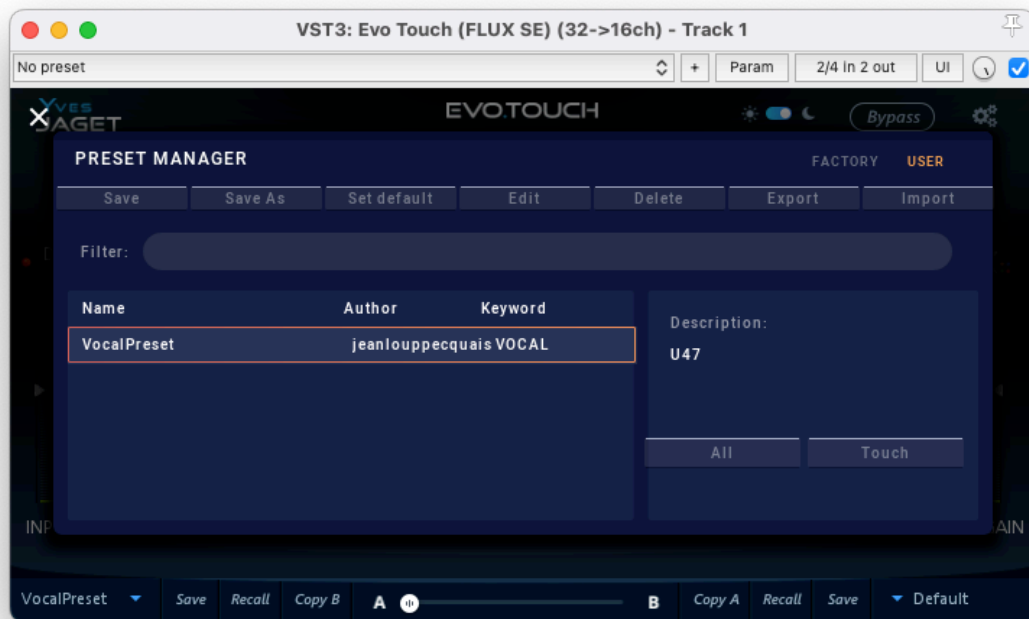
In the preset manager, any preset can be loaded into a preset slot by double clicking on the name of the desired preset in the actual preset list, the preset will then be loaded into the preset slot corresponding to the position of the morphing slider.

- Additional controls in the preset manager
- Recall A loads the selected preset into the corresponding slot.
- Recall B loads the selected preset into the corresponding slot.
- Update, saves the current settings into the selected preset. (Available in User Bank only)
- New, saves the current settings into a new preset. (Available in User Bank only)

- Duplicate creates a copy of the selected preset and saves it to the list.
- Edit allows for changes to the preset meta properties. (Available in User Bank only)
- Delete, removes the selected preset. (Available in User Bank only)
- Export, creates a file reflecting the content of the current preset bank.
- Import, allows for import of a preset bank file by adding the imported banks content to the content in the current preset bank.

When saving or editing a preset, an option to protect the preset is presented. The preset protection, if engaged, only allows the original preset author to uncheck and edit the preset. This means that you can protect your presets in a multi-user configuration. Protected presets can only be modified using the session used for their creation. If used in another user session they can only be imported or deleted.





## 8 Specifications

### 8.1 Availability

EVO Touch is available in:

AU / VST / VST3 / AAX Native/ *AAX AudioSuite* / Waves WPAPI

*\* AAX Native & AAX AudioSuite in Pro Tools 11 and later*

### 8.2 Processing

EVO Touch provides :

- Up to 16 channels Input/Output in VST/VST3/AU/AAX.
- Up to 8 channels in WPAPI for Waves Soundgrid.
- 64-bits internal floating point processing.
- Sampling rate up to 384 kHz.

### 8.3 Hardware Requirements

A graphic card fully supporting OpenGL 2.0 is required.

- macOS : OpenGL 2.0 required – Mac Pro 1.1 & Mac Pro 2.1 are not supported.
- Windows : If your computer has an ATi or NVidia graphics card, please assure the latest graphic drivers from the ATi or NVidia website are installed.

### 8.4 Software License Requirements

In order to use the software an iLok.com user account is required (the iLok USB Smart Key is not required).

## 8.5 Compatibility

All major native formats are supported

### 8.5.1 Windows – 10, in 64 bits only.

- VST (2.4)
- VST3 (3.1)
- AAX Native\*
- AAX AudioSuite\*
- Waves WPAPI

### 8.5.2 macOS (Intel and ARM)

All versions from Sierra (10.12) to latest. (Compatible with previous versions but not supported)

- VST (2.4)
- VST3 (3.1)
- AU
- AAX Native\*
- AAX AudioSuite\*
- Waves WPAPI

\* *AAX Native & AAX AudioSuite in Pro Tools 11 and later*

# A Release Notes

## A.1 Build 23.1.0.50251 - All plugins

### A.1.1 New features

- New plugins Evo Compressor, Evo Touch and Evo EQ.
- VST3 support
- ARM support for AAX, AU and VST3
- Plugins are now resizable
- Elixir now supports 32 channels
- Alchemist, BitterSweet, Epure, Pure Compressor, Pure DCompressor, Pure Expander, Pure DExpander, PureLimiter, Solera, Syrah now support 16 channels

### A.1.2 Bugs fixes

- All plugins - Preset Manager - Update user preset do not work
- All plugins - Preset manager - Crash or freeze when saving a preset
- All plugins - UI may be black on Intel UHD 630 graphical cards
- All plugins - AU/VST3 - Preset manager - Default preset is not applied to parameters at plugin instantiation
- All plugins - AAX - Crash with OSC when changing fx slot in Pro Tools
- All plugins - AU - Logic Pro - Automation of boolean/integer parameters broken
- All plugins - AU - Plugins crash in Da Vinci Resolve
- All plugins - DaVinci Resolve - VST - UI is truncated
- All plugins - Streamlabs - Plugins do not work
- All plugins - Licensing issue in DaVinci Resolve and GarageBand
- Alchemist - The range parameter works only for the 1st band
- BitterSweet - Not possible to tweak the Output gain after unlinking it

- BitterSweet - Output gain not reloaded properly when the link is disabled
- BSPro - some modes are not accessible due to GUI issue
- Epure - macOS - Bad graphic scale initialization at 2&4FS
- Evo Channel - Meter reference is not saved
- Syrah - Crash when selecting preset “Static fast compression”
- TRAX Tr - When the link is activated, the Formant slider does not have the expected audio effect
- TRAX Tr - ProTools - Issue in AudioStudio when the modulation is enabled
- VerbSession/VerbSession Studio Session and BSPro StudioSession - Pyramix - VST crash when instantiated
- Verb/Verb Studio Session - Crash when reloading session having 2 instances

### **A.1.3 Known issues**

- All plugins - VST - GUI issue in Izotope Ozone and RX
- All plugins - AAX - Preset manager - Default preset is not applied to parameters at plugin instantiation
- Elixir - Latency not properly compensated after changing stage parameters value in VST and AudioUnit
- TRAX tr - Learn function returning wrong values
- VerbV3 - HOA 3rd order not working properly

## **A.2 Build 21.12.0.50123 - All plugins except TRAX and StudioSession**

### **Bug fixes**

- All plugins AudioUnit - GUI issue with Hdpi displays on macOS Monterey
- All plugins VST - Plugin scan freeze in Wavelab 11 on Mac M1 machines
- All plugins VST - Crash in Adobe Audition on macOS
- All plugins VST macOS - Fix crashes with Ableton live
- Elixir - Automation is not read for toggle parameters.
- Elixir - Crash when clicking on the settings button on Session version

- Elixir - Several fixes on the UI
- Elixir - Windows AAX - Refresh issue with two instances in ProTools
- HEar - Bypass is working in AAX
- HEar AAX - Crash when doing offline bounce on macOS
- HEar AAX - Crash when editing the matrix on macOS
- HEar AAX - Stereo - Change on Matrix are not applied until we change the preset
- HEar AudioUnit - Ableton crashes when inserting a second instance

### **A.3 Build 21.11.0.50107 (HEar, IRCAM Verb)**

**NOTE: CURRENTLY NOT COMPLIANT WITH ABLETON LIVE MACOS**

#### **Improvement**

- HEar - 5.1.4 & 5.0.4 now available

#### **Bug fixes**

- HEar - Fix meters refresh issue
- HEar - No verb on some presets
- HEar - Protools crashes when doing offline bounce on macOS

### **A.4 FLUX:: Immersive - Plugins (including IRCAM Tools) 21.09**

This release includes updates for all FLUX::Immersive plugin processing products with the exception of EVO Channel, Epure, IRCAM Trax, Studio Session.

**NOTE: CURRENTLY NOT COMPLIANT WITH ABLETON LIVE MACOS**

#### **Major optimizations**

- Apple computers Big Sur (new M1 chips) AU validation
- Important updates to the Ircam Verb + Session
- Overall better handling of multichannel track setups such for Atmos. (Ircam Hear, Verb and more)
- Automatic detection of track format / channel order for DAWs when possible.



### A.4.1 Build 21.9.0.50083

#### Bug fixes

- Apple computers Big Sur (new M1 chips) AU validation failing
- Empty GUI when close/reopen plugin - Windows 10 - UHD630 graphics
- AudioUnit in Reaper - do not process audio when offline bounce
- Default preset not loaded correctly on instantiation of Verb + Verb Session
- Evo.Channel on Retina - Input and Output Sliders badly scaled
- Incompatible AudioUnit issue in Apple Final Cut Pro
- Plugins: Recall Preset Flags (e.g. “All but setup”) recall always everything
- Preset Manager - UI issue with small plugins when a preset has been created
- Ircam Verb Session reload in VST with audio interruption
- VST Plugins Session not correctly reloaded if it integrate an IO configuration change
- Verb session - Dry/wet not applied in offline render
- Verb v3 Atmos crash on AAX
- Verb: AU validation failed on Apple M1
- Verb: LFE not disabled by default on ProTools
- Verb: Recall Preset may be not correct with double click inside the preset manager
- Verb: disabled channel is not re-injected according to dry/wet parameter (100 % wet means muted)
- Verb: init issue with Nuendo
- AAX - Some plugins - Crash on Mac / No GUI on Windows
- Overall reliability / stability fixes.
- Plugin size not correct
- Potential plugins crash when opening UI

## A.5 FLUX:: Immersive - Plugins (including IRCAM Tools) 20.12

This major release includes updates for all **FLUX::Immersive** products with the exception of IRCAM Spat V3 legacy product. Please refer to Spat V3 - Spat Revolution crossgrade options.

#### Major optimizations

- HiDPI / Retina support + display enhancements and fixes
- Page Table unification for **Avid Control**, S1, S3, S4, S6 and S6L.
- OSC Control for plugins.
- **IRCAM Verb** support for Dolby Atmos, Multichannel support up to 16 channels
- **IRCAM Hear** - Multichannel stability improvement, Now up to 10 channels. (Dolby Atmos 7.1.2)
- **IRCAM Tools** - Audio I/O Matrix and Multichannel enhancement

- Most plugins support of 8 channel.
- 16 channel support for **Bittersweet Pro, Evo In and Evo Channel**

### A.5.1 Build 20.12.0.49880

#### Bug fixes

Core:

- BPro - Latency report issue (AAX)
- IRCAM TRAX Tr - Latency report issue
- IRCAM Verb - Wrong initialization value for Reverb density
- IRCAM Verb -Dry signal still goes out in disabled channels when wet is 100%
- All Pure Dynamics PI + Alchemist - Wrong Thresholds initialization values
- AAX “monolithic” are broken like Hear, TRAX etc...
- Almost all AAX plugins don’t reload parameters from 47856 version session.
- Pure Limiter - Diff feature bypassed the input gain.
- Pure Limiter - Inverted sidechain filters.
- Any plugin except Evo Channel - Research Presets resets when click on a preset.
- Evo channel - Wrong values when reloading touch section.

UI:

- Current preset name disappear on re-opening GUI or session

## A.6 Known Issues

- Wavelab “Sample rate not supported” when a plugin is inserted on a clip, track or output section.
- TRAX Tr - Learn frequencies display wrong values (AAX only).
- Hear - Internal config labels change when modify LFE input config from routing matrix.
- When using OSC on a plugin in Pro Tools, a crash will occur if you change/move FX insert slots