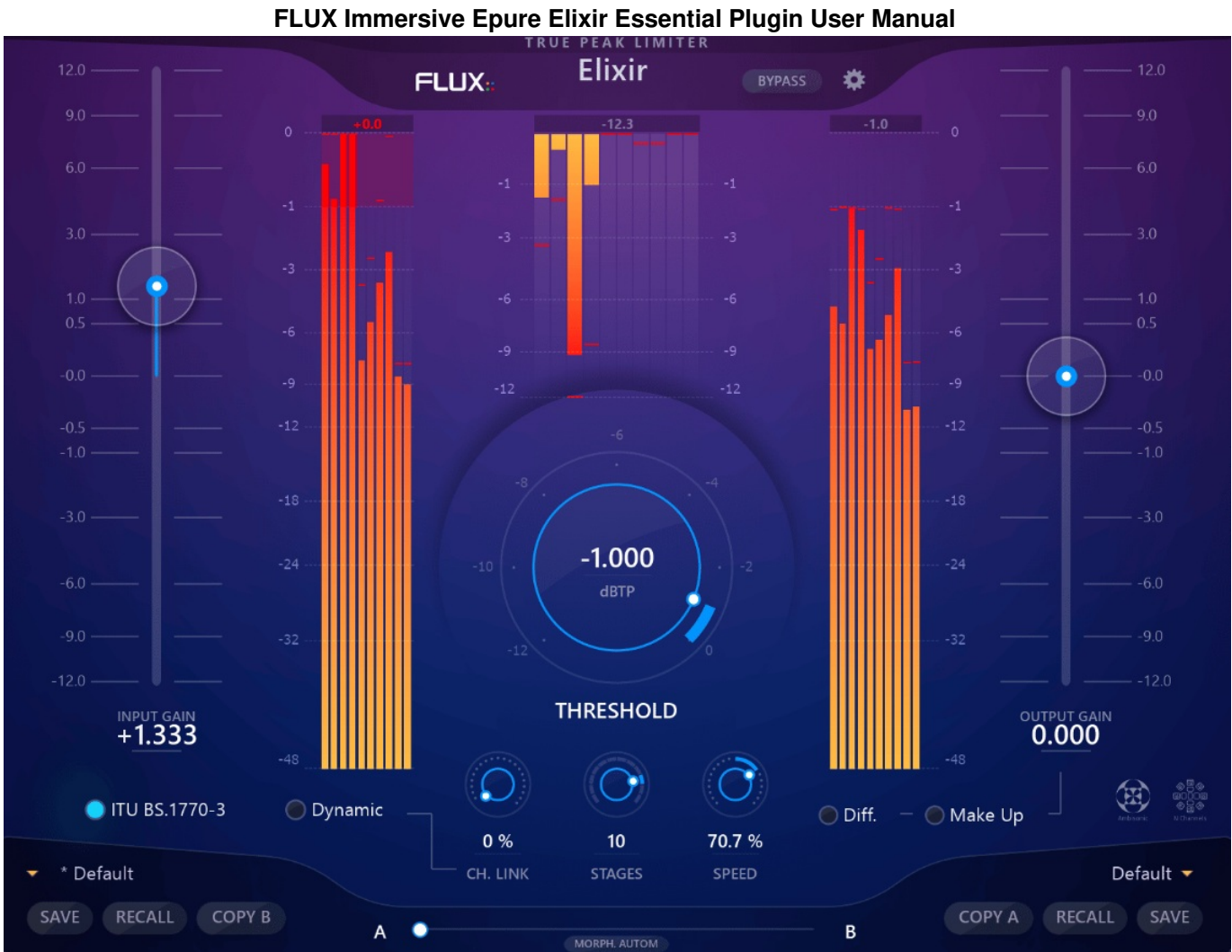




FLUX Immersive Epure Elixir Essential Plugin User Manual

[Home](#) » [Flux](#) » FLUX Immersive Epure Elixir Essential Plugin User Manual 



Contents

- 1 Epure
- 2 Special Functions
- 3 Setup – Input Routing – MS Encode Decode – Groups
- 4 Specifications
- 5 Compatibility
- 6 A Release Notes
- 7 Documents / Resources
 - 7.1 References
- 8 Related Posts

Epure

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



Epure is a state-of-the-art five-band equalizer designed to provide the absolute finest audio quality within the domain of digital audio processing. Built with our proprietary State-Space technology, carefully tuned to preserve the optimal signal to noise ratio independent of the parameter settings preventing the signal from deteriorating when the gain is reduced, makes

Epure a powerful go-to processor for your day-to-day session work, as well as an efficient sharp-edged surgical precision tool for the most demanding equalizing and filtering tasks conceivable. In addition to the supreme audio quality, the logical and comprehensive user interface includes a variety of instant shortcut functions provided to enhance and simplify the user workflow, allowing for instant and precise operation.

1. **Bypass (1)**

When pressed the inputs are routed direct to the outputs.

Default Value: Off

2. **Graphic Display (2)**

Graphical editing provided by grabbing the curves on the graphical display.

3. **Band Activation (3)**

Toggles the activation of the processing for the actual band.

Default Value: On

4. **Filter Type (4)**

All mentioned filter types are available on all of the five bands.

Default Value: Peak **Additional Filter Types:**

- 12 dB per octave high pass filter (Low Cut)
- Low shelving (Low Shlv)
- Parametric (Peak)
- High shelving (High Shlv)
- 12 dB per octave low pass filter (High Cut)

5. **Band Gain (5)**

Adjusts the gain for the selected band.

Unit: dB

Value Range: -24 / +

Step: 0.

Default Value: 0 dB

6. **Band Frequency (6)**

Adjusts the center frequency for the band.

Unit: Hz

Value Range: 5 / 22k

Default Value: 50 / 200 / 500 / 2000

Step: Variable

7. **Band Q-Factor (7)**

Adjusts the frequency range affected by Gain and Frequency on the band when the Parametric filter type is used.

With a lower Q-Factor, a wider range of frequencies are affected, with a higher Q-Factor, a narrower range of frequencies are affected. The narrowest Q-Factor is 1/7 octave of 100 in displayed value and the widest is 6.67 octave. The effective Q-Factor depends on the amount of gain applied; the displayed value corresponds to the maximum gain variation (24 dB).

! Note

Example: With 6 dB gain the max Q-Factor is not 100 as displayed, but instead 10 in a regular expression to the actual Q-Factor.

Value Range: 1 / 100

Step: 0.

Default Value: 10

8. **Preset Manager (8)**

Opens a new window accessing the built-in preset manager.

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9. **Save (9)**

Saves the current parameter settings as a preset.

10. **Recall (10)**

Populates all the parameters in the actual parameter section with the values from the selected preset.

11. **Copy A / Copy B (11)**

Populates all the parameters in the actual parameter section with the values from the other section. This also moves the Morphing Slider to the actual parameter section.

12. **Morphing Slider (12)**

The Morphing Slider 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.

Special Functions

1. **Master Gain (13)**

Adjusts the gain for the currently selected channel group. All channel groups features an individual Master Gain control. If only one channel group is used, this control acts as the Master Gain control for all of the channels.

For more information about channels and channel groups, see Setup (17)

Unit: dB

Value Range: -24 / +

Step: 0.

Default Value: 0 dB

2. **X2 – Quick Gain Multiplier (14)**

Multiplies the band section gain values by two.

If the morphing slider is set in-between the parameter sections when the Quick Gain Multiplier is clicked, depending on its current position, the morphing slider will move to one of the parameter sections and the values of that section will be re-initialized with the current values of the actual section.

3. **X1/2- Quick Gain Divider (15)**

Divides the band section gain values by two.

If the morphing slider is set in-between the parameter sections when the Quick Gain Divider is clicked, depending on its current position, the morphing slider will move to one of the parameter sections and the values of that section will be re-initialized with the current values of the actual section.

4. **Invert – Quick Gain Inverter (16)**

Inverts the band section gain values.

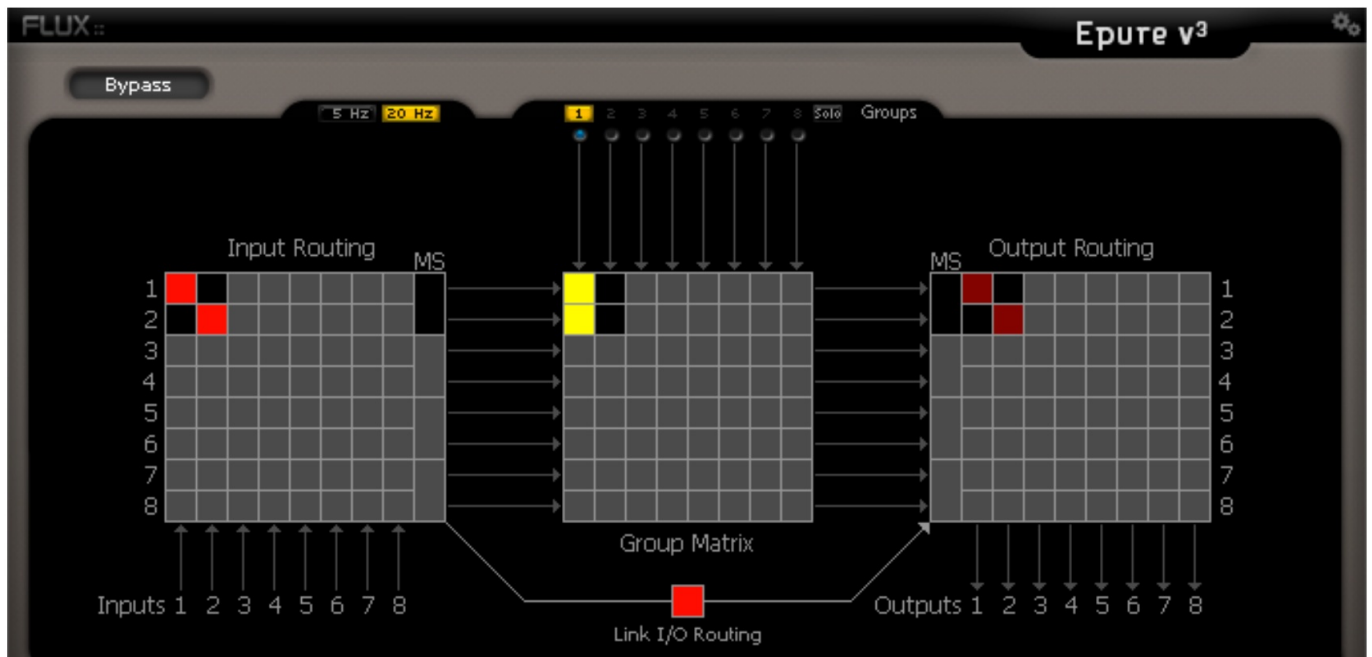
If the morphing slider is set in-between the parameter sections when the Quick Gain Inverter is clicked, depending on its current position, the morphing slider will move to one of the parameter sections and the values of that section will be re-initialized with the current values of the actual section.

5. **Master Section – Multiply, Divide, Invert (14, 15, 16)**

Using the Multiply, Divide or Invert controls in the master section will affect the gain parameter for all band

sections in the selected channel group. A master section action can be combined with a specific band section action.

Setup – Input Routing – MS Encode Decode – Groups



1. Setup (17)

Input Routing, MS Encoder/Decoder, Internal Channels and Groups setup.

Any of Epure's input channels can be routed to up to 8 internal EQ-channels using a sophisticated routing system offering individual processing of up to 8 different equalization curves.

The built in routing system provides up to 4 M/S encoders and 4 M/S decoders (each of them in pairs of 2 channels).

Epure Studio Session supports Mono/Stereo input only which can be routed to up to 2 different equalization curves and provides up to 2 M/S encoders/decoders.

The built in MS encoders/decoders use odd EQ-channels for Mid and even EQ-channels for Side. Stereo or M/S encoded material as well as multichannel surround material can be processed individually, or combined in configurable explicit groups, within one single instance of Epure.

With the Link I/O Routing engaged, every input is automatically routed to the corresponding output, when the input routing settings are consistent. Please note that the Routing Matrix allows for routing of one input channel to several EQ-channels, as well as for routing of several EQ-channels to one output.

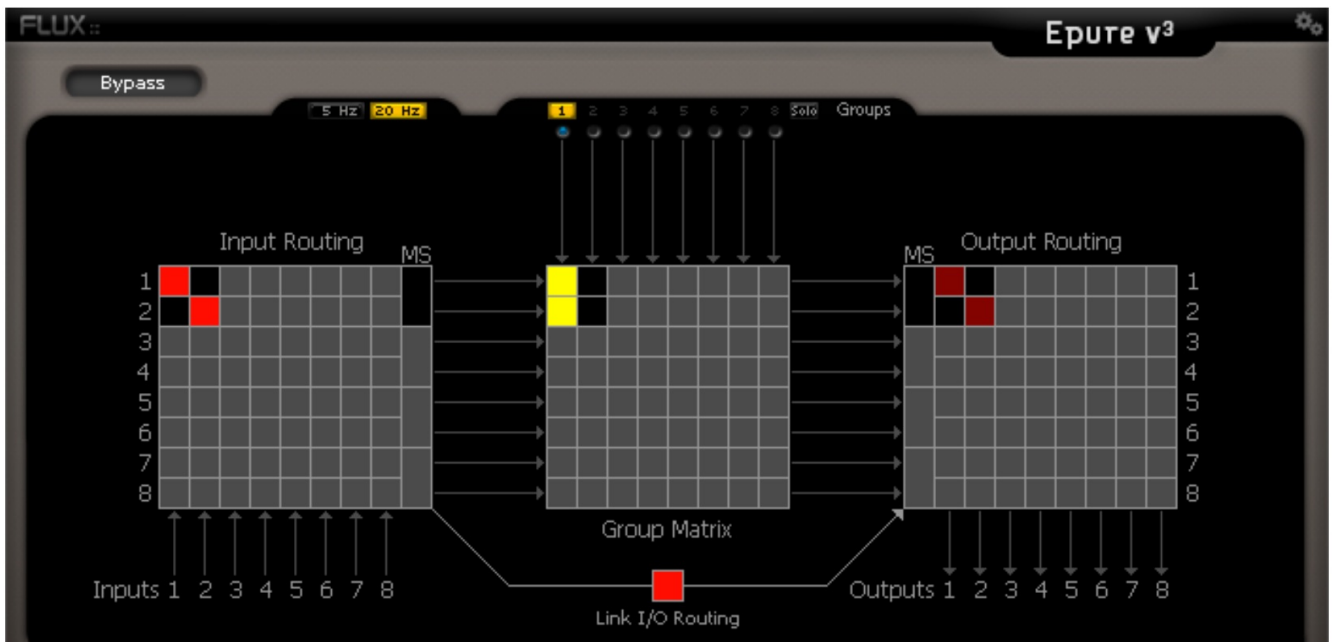
! Note

Please note that this is an inconsistent routing action that may in turn cause the Link I/O Routing to behave inconsistently.

With each Group representing one explicit EQ curve, the Group Matrix can be used to gather a number of internal EQ channels in a specific group for the combined processing of several input channels (Front/Surround, etc.).

Note that when audio channels are grouped, the settings of the first audio channel (Channel 5 in group 2 in the above example) are applied to all channels in the group (Channels 5 & 6 in the example).

Please note that morphing between two parameter settings using the Morphing Slider (12) affects the settings of the Setup section as well.



2. Groups (18)

Select EQ-channel Group.

Any action on the EQ parameter settings is applied to the currently selected Group of internal EQ-channels. Only Group 1, gathering every available channel by default, is created when the first instance of the Epure Plug-in is inserted.

By right clicking on the graphical display the settings of any of the groups can be instantly copied to the currently selected group. The behaviour of the vertical scale can also be selected as followed: Auto, 6 dB, 12 dB and 24 dB.

3. Lowest Frequency to display (19)

Select the lowest displayed frequency. When 20 Hz is engaged, Epure displays the frequency range from 20Hz to 1/2 sampling rate.

4. Solo (20)

Monitors the content of the selected group. The monitoring is done after the master gain section and the MS decoder.

5. Automation (21)

When the Automation button is disabled all of the plug-in parameter values are recorded when writing automation.

When reading automation, if it's disabled, all the plug-in parameters are controlled by the host automation except for the Morphing Slider (12), which is then ignored. When it's engaged all parameters are recorded when writing automation, including the Morphing Slider, though when reading automation ONLY the morphing slider value is read and applied.

The Automation button must be engaged if the Morphing Slider is to be mapped on a control surface.

Default Value: Off

6. Settings (22)

Pressing the cogwheels opens a settings window providing information about the plug-in version/build, a direct access button to the user manual, as well as setup for latency report and OSC (Open Sound Control). OSC is available in Epure only, and is not supported in Epure Studio Session.

Specifications

1. Processing Specifications – Epure

- Up to 16 channels Input/Output.
- 64-bits internal floating point processing.
- Sampling rate up to 384 kHz DXD (Pyramix and Ovation MassCore/Native).
- Sampling rate up to 192 kHz for Native (AU/VST/VST3/AAX/AAX AudioSuite).

2. Processing Specifications – Epure Studio Session

- Mono/Stereo Input/Output.
- 64-bits internal floating point processing.
- Sampling rate up to 96 kHz.

3. Licence Requirements

In order to use Epure or Epure Studio Session, an iLok.com user account is required (the iLok USB Smart Key is not required)

Compatibility

1. Epure

1. Windows – 10, 64 bits.

- VST (2.4) in 64 bit
- VST (3.1) in 64 bit
- AAX Native/DSP/AudioSuite, all in 64 bit*
- Waves WPAPI Native/Soundgrid in 64 bit
- VS3** Pyramix 10 and more in 64 bit and Ovation 6 and more
- AVID VENUE Systems

2. macOS (Intel and ARM) – 10.12 (Sierra) and more, 11 and 12.

- VST (2.4) in 64 bit
- VST (3.1) in 64 bit
- AU in 64 bit
- AAX Native/DSP/AudioSuite, all in 64 bit*
- Waves WPAPI Native/Soundgrid in 64 bit
- AVID VENUE Systems

** VS3 for Pyramix & Ovation Native/MassCore sold only through Merging Technologies and authorized dealers.

A Release Notes

A.1 Build 23.07.50310 – All plugins

A.1.1 New features

- Support Pro Tools new track formats

A.1.2 Bugs fixes

- All plugins – Nuendo – VST3 – crash when stereo plugins are instantiated on multichannel tracks (StereoTools, ...)
- All plugins – Pace protected plugins fail to scan on Da Vinci Resolve mac
- All plugins – Popups wrong metrics when changing screen
- All plugins – Presets not imported
- All plugins – VST3 – Nuendo – WIN (UHD360) – Wrong window size init
- All plugins – VST3 – WIN (UHD630) – REAPER – GUI refresh issue when in single window mode
- All plugins – GUI issue with AMD graphics on windows – flickering issue
- All plugins – AU – Plugins parameters are reset when bouncing in Reaper
- All plugins – VST2 – no multichannel with the plugins 23.X in Reaper
- All plugins – VST – Resizing the GUI does not update the floating window size in Nuendo on Windows with UHD630 graphics
- Bittersweet – VST3 – crashes on Pyramix on instantiation
- StereoTool / EVO Channel – VST3 – No goniometer / analyzer in Wavelab
- Elixir – Not available as 32 channels in Reaper
- EVO series – AAX – Dark Mode wrong GUI init
- EVO series – remove unused and duplicated presets
- EVO Channel – VST3 – spectrum smoothing slider crashes Studio one
- EVO Channel / EVO Eq – VST3 – Analyzer not working in Ableton Live
- EVO Channel / EVO Eq – scale eq control always reload on auto mode
- EVO Eq – weird release on meter
- EVO In – GUI refresh issue when toggling night/day mode
- EVO Touch – Zero Crossing Threshold label missing in the geek panel
- EVO Touch – frequency band selector does not always recall the good settings on session reload
- EVO Touch/ EVO Channel – Frequency range slider is hard to handle
- Pure Serie – VST3 – Attack value max 80ms
- Pure Comp – Crash when loading “Bass guitar” preset
- Pure Limiter – VST3 – advanced mode does not turn on advanced settings
- StereoTool – VST3 – vector scope not working in Ableton Live on Windows
- StereoTool – Not working in Final Cut Pro
- TRAX – Crash using oversampling with sessions set at 2FS or higher
- TRAX Tr – not usable in Protools anymore (build 50123)

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 23.1.0.50251 – All plugins

A.2.1 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.2.2 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
- BPro – 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 BPro StudioSession – Pyramix – VST crash when instantiated
- Verb/Verb Studio Session – Crash when reloading session having 2 instances

A.2.3 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.3 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.4 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 mac OS

A.5 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.5.1 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.6 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.6.1 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.7 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 chrash will occur if you change/move FX insert slots

Documents / Resources

	FLUX Immersive Epure Elixir Essential Plugin [pdf] User Manual Immersive Epure Elixir Essential Plugin, Immersive Epure, Elixir Essential Plugin, Essential Plu gin, Plugin
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References

-  [iLok.com](#)
-  [Epure | Flux::SE](#)
-  [Epure - FLUX:: Immersive](#)
- [User Manual](#)