

Lexicon PSP42

with extensions

The high-quality digital stereo delay and phrase sampler



Operation manual

PSPaudioware.com

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OVERVIEW

Lexicon PSP42 with extensions (Lexicon PSP42 v. 2) is the next generation of our Lexicon PSP42 plug-in, offering a wide new range of features thanks to its new extensions panel.

The original **Lexicon PSP42** plug-in is a high-quality digital stereo delay and phrase sampler that's based on the legendary Lexicon PCM 42 signal processor, which was famous for its unique architecture and distinctive sound. Lexicon PSP42 has been carefully designed to accurately reproduce the flexibility and warmth of this renowned classic, so closely that it carries the Lexicon name with Lexicon's approval. This accuracy comes from PSP's well-known tape saturation algorithm, which emulates the physical properties of vintage tape machine delays – all as just one part of a flexible delay line with variable sample rate and exceptional signal quality at every processing stage.

Lexicon PSP42 v. 2 can create a wide variety of delay-based effects, ranging from tempo-locked feedback delay with high frequency absorption and tape saturation to flanging and phasing effects. A flexible modulation section for continuous delay time and pitch control can add subtle animation or swing to the processed signal, or create unpredictable alien sounds when pushed to its limits. The freely adjustable delay line sampling frequency makes Lexicon PSP42 a good tool for creating lo-fi effects – which still sound smooth thanks to its superior interpolation, always free of a zipper noise.

In its new form, Lexicon PSP42 v. 2 adds greatly increased maximum delay time, emulation of the original hardware's analog limiters and A/D and D/A converters, low pass filter cutoff adjustment, inverted modulation and sidechaining for the envelope follower, and more. These new features are presented in an easy-to-use new design with updated preset browsing and greatly improved graphics quality. It takes an amazing delay and makes it even better!

Features

- High quality signal processing algorithms
- Up to 28800 ms of delay time (depending on internal sampling frequency)
- Continuous control of delay time,
- Tight synchronization to host tempo
- Tape saturation emulation based on the algorithm used in PSP mastering processors
- Analog limiter emulation
- A/D and D/A converter emulation
- Four limiter/saturation processing modes
- Low pass filter to model high frequency absorption, with cutoff frequency tuning
- Modulation section with three different modulation signal sources (sine, square, envelope detector), side or square mixed in any proportion with envelope detector
- LFO can operate in free-running (Hz) and tempo sync (beats/bars) modes
- Four record/playback directional modes
- Side chain for envelope detector
- Phrase sampler capability
- Parameter filtering and on-the-fly crossfades for smooth and click-free parameter adjustment
- Support for sample rates up to 384 kHz

Applications

Lexicon PSP42 is primarily intended for processing individual tracks within a mix. It delivers superior delay-based effects on vocals and all kinds of solo instruments, and now simulates vintage delays with its adjustable tape saturation, tape speed/direction, and high frequency filtering.

Tempo locking and a handy modulation section make Lexicon PSP42 an essential tool for experimenting with drum loops and other rhythmic patterns. Its variable delay line sampling rate can easily create great-sounding lo-fi effects as well as out-of-this-world sounds.

When running at shorter delay times, the built-in pitch modulation and phase inversion controls turn Lexicon PSP42 into a source of vibrant modulation effects such as chorus, flanger and doubler.

Last but not least, Lexicon PSP42 can act as a simple phrase sampler, letting you capture a loop of audio and process it in real time without clicks, pops, or other artifacts.

ARCHITECTURE

Internal architecture

Like its hardware predecessor, Lexicon PSP42 is built around a delay line with a variable sample rate, continuously adjustable from 0.5 to 1.5 times the host sampling rate. Activating the DLYx2 button cuts the current sample rate in half, which doubles the maximum delay time.

Even with this wide range of sample rates, sound quality is retained thanks to 6-pole low pass anti-aliasing and reconstruction filters on the input and output signals, and low-harmonic distortion interpolation on the sample rate converters before and after the delay buffer. This lets delay time be continuously modulated without unwanted artifacts.

The modulation section consists of a LFO (with sine and square waveforms) and an envelope follower. Envelope follower and LFO signals can be mixed in any proportion to make up a final modulation signal that controls the delay line's sampling rate – which in turn alters the delay time and pitch.

Lexicon PSP42 v. 2 offers increased flexibility in setting the delay's sonic character. The Lexicon PSP42 Legacy algorithm, which contains a single pre-A/D soft saturator, is still available, but it has been joined by three more processing modes. In addition to a transparent Clean setting, the Processing can be set to Lims or Full mode, which model different parts of the original hardware's design.

In Lims mode, the Legacy mode's tape saturation is exchanged for emulated analog opto limiters in the signal chain. There are two stages of limiting: one affects both Dry and Wet signals (including Dry in bypass mode), and the other affects the Wet signal as a sum of Dry and Feedback.

Full mode adds emulation of the hardware A/D and D/A converters, which were non-linear and had a unique character of their own. In particular, this mode emulates the original converters' frequency drift, which is manifested by subtle changes to the pitch.

In all these modes, you can set a Reference level to reflect your typical signal levels, required saturation or limiting effects, or personal taste. Setting the reference too low may result in extreme saturation or limiting artifacts and a considerable loss of signal level, and setting it too high in Full mode may result in excess A/D and D/A conversion noise – just like the original PCM 42 hardware.

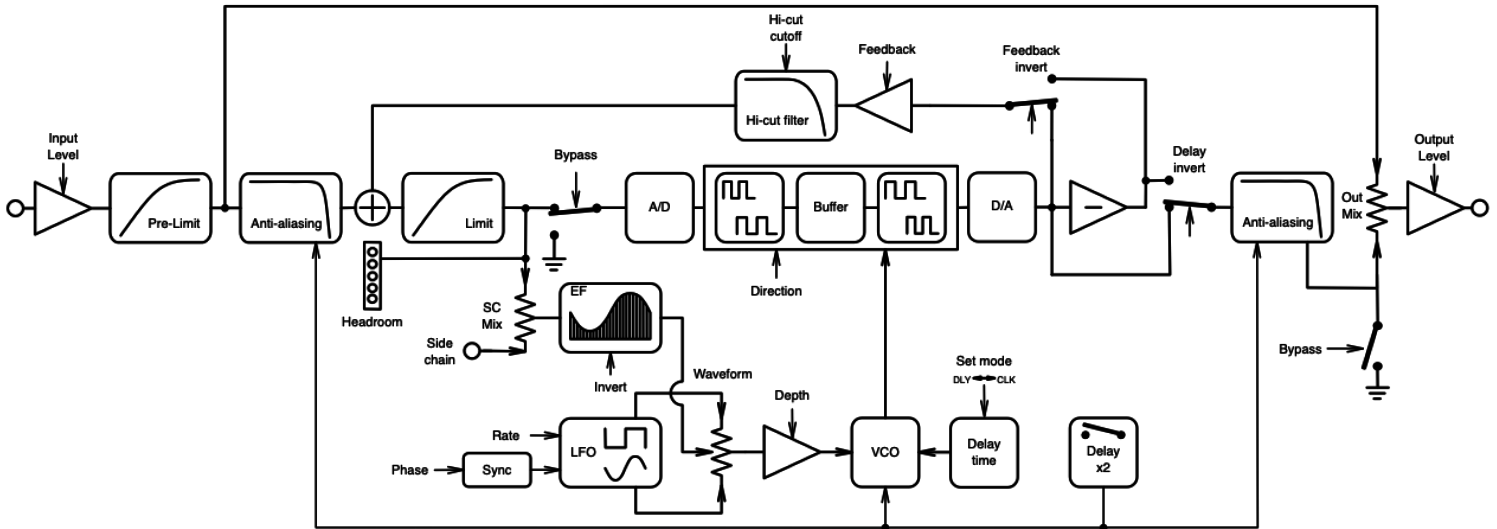
The signal path is double precision float all the way through, to preserve the bit depth and the dynamic range of the input signal. That means the only dirt you'll hear is what you dial in yourself! Please note that nonlinear A/D and D/A converters' emulation, and its characteristic noise and distortion intentionally reduces signal's bit depth, adds conversion noise and harmonic distortion whenever the Full processing mode is selected.

Lexicon PSP42 v. 2 Block Diagrams

Lexicon PSP42 v. 2 offers 4 configuration modes, set with the PROCESSING switch.

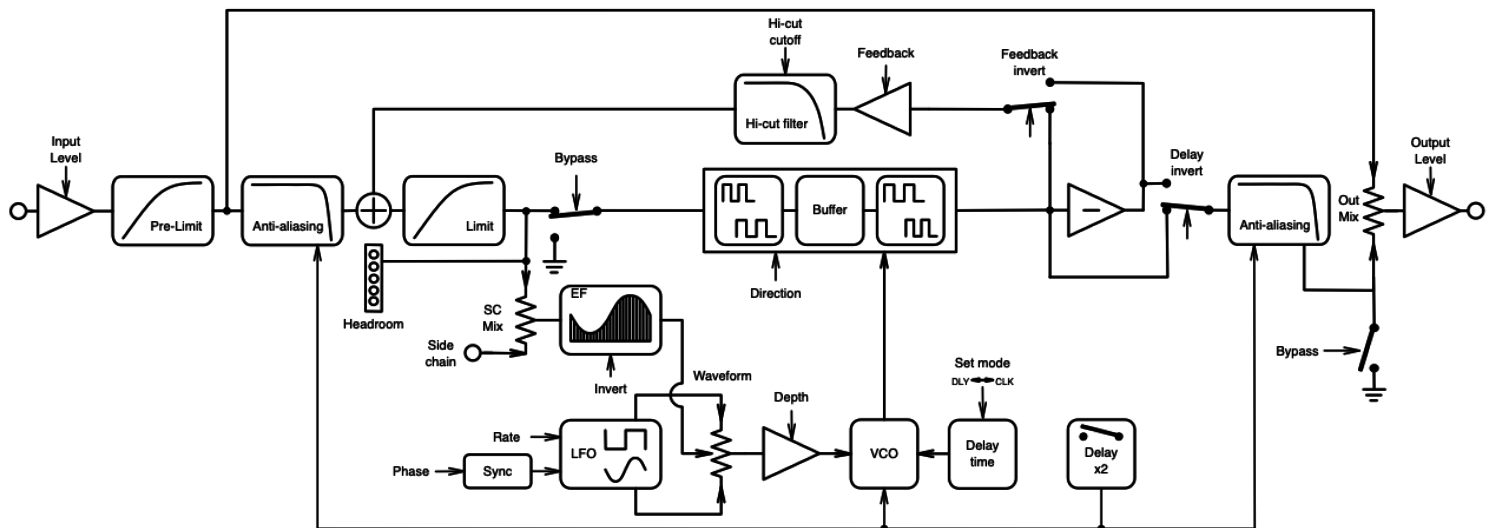
Full

Includes emulation of the hardware's limiters as well as its A/D and D/A converters



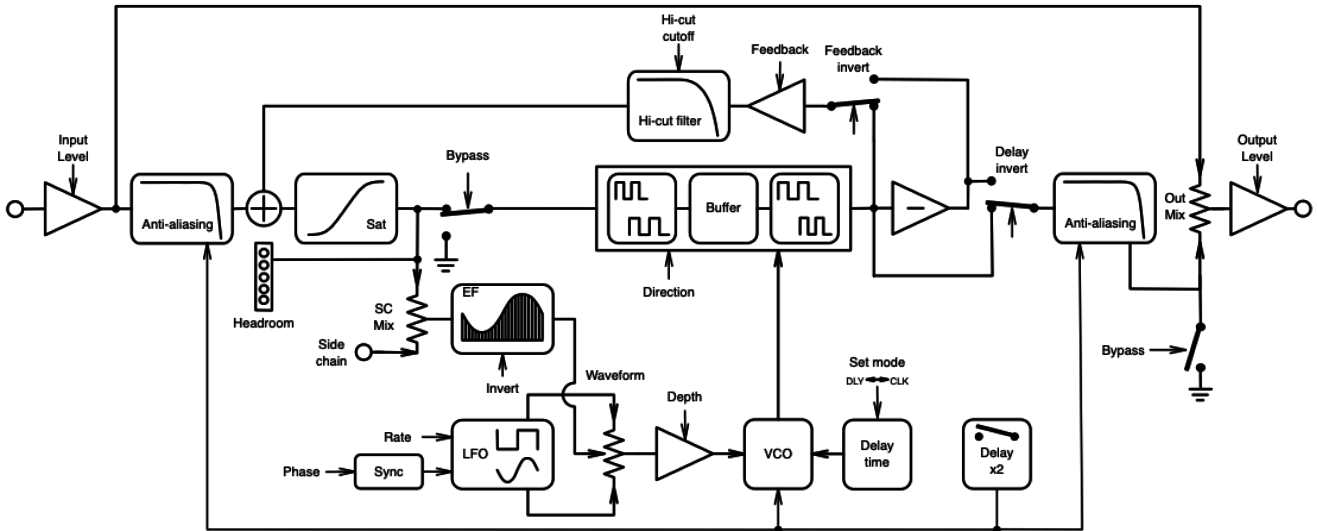
Lims

Emulates the hardware limiters but not the converters



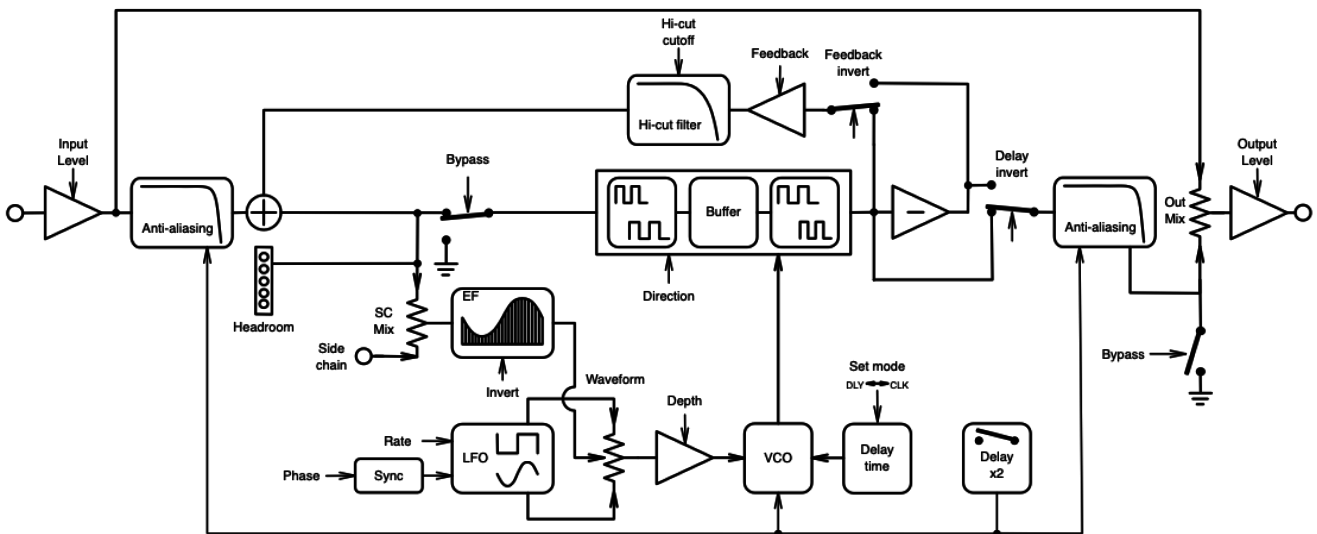
Legacy

Incorporates only the pre-A/D soft saturator found in the original Lexicon PSP42 plug-in.
NOTE: in this mode, the Envelope Follower Invert (ENV INV) switch should be engaged.



Clean

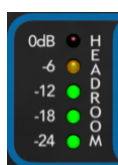
This configuration has neither limiter nor converter emulation, for pure transparent sound.



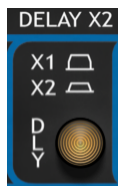
USER INTERFACE

All of Lexicon PSP42's controls are located on its front panel. This gives the user instant access to all the processing parameters. The convenient and intuitive control layout makes using Lexicon PSP42 v. 2 very easy, even for an inexperienced user. Even so, we recommend that you read this manual carefully, so you can get the most out of this plug-in's advanced features.

Main panel



The **HEADROOM** meter indicates the signal level of the mixed input and feedback signals. Level on the headroom meter indicates the signal level controlling the A/D converter and the modulation envelope follower. This level is affected by saturation, or limiters depending on the selected processing mode. Whenever legacy, lims or full processing modes are selected the meter indication actually shows how hot saturation or limiters are working.



The **DLYx2** button doubles the currently set delay time by cutting the sampling rate in half. Lowering the sampling rate also affects the frequency range, creating a lo-fi effect that's beautiful and interesting on its own. When DLYx2 is pressed, the wet signal's pitch will drop by an octave to reflect the change in sample rate. However, once the whole buffer of audio has been played back, subsequent audio will be captured at the new sample rate and will have the proper pitch again (unless RPT mode is on).



The **INPUT** knob controls the input signal gain in a range from $-\infty$ (muted) to +12 dB, with 0 dB being in the middle position. Because the input signal goes through the saturation or limiter blocks - depending on the processing mode - further along in the signal processing path, the setting of the input gain also affects the signal's harmonic content.



The **OUTPUT** knob attenuates or amplifies Lexicon PSP42x's output signal level (wet+dry). In center position, the output signal is unaffected. Turning the knob counterclockwise attenuates the signal until there is no sound coming from the unit at all, while turning it clockwise amplifies the signal up to +12 dB.



The **FEEDBACK** knob controls the attenuation that is applied to the signal being fed from the delay line output back to its input, which controls the number of audible signal repetitions. The knob operation range is from $-\infty$ dB to 0 dB.



The **HI CUT button** activates the feedback low pass filter. The filter's rolloff slope is -6 dB/octave. The filter's cutoff frequency is set to 6 kHz by default, but can be adjusted on the extensions panel. When switched on, the high frequencies of the signal are attenuated more than the low frequencies. This is analogous to the high-frequency absorption that is caused by wall reflection or tape delay losses.



The **FB INV button** inverts the phase of the feedback signal. While this is not audible with a long delay time, it can dramatically alter the sound if the delay time is short or in exact synchronization with repeating patterns. When the button is pressed, the phase inversion begins only when the audio waveform crosses zero, so as to avoid a click.



The **DLY INV button** inverts the phase of the wet (processed) signal. Just like FB INV, it becomes audible when the delay time is short. As with FB INV, the phase will be inverted on the next zero crossing to avoid clicks.



The **BYPASS LED** is lit when the plug-in is in bypass mode, which can be activated by switching on the BYPASS button on the extensions module. When the bypass mode is engaged, the Wet signal is disabled and the A/D's input is muted, the Dry signal goes through to the output with the level set by the Mix knob.



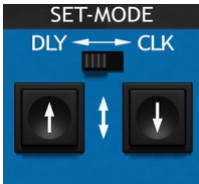
The **OUTPUT MIX knob** controls the proportion in which dry and wet signals are present in Lexicon PSP42's output. In the middle position, both signals are attenuated by 3 dB.

NOTE: the Dry signal is affected by an input limiter whenever Lims or Full processing mode is selected. This is important, as the limiter remains in effect when the plug-in is put into Bypass.

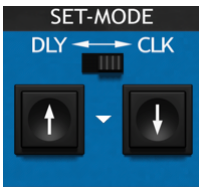


The **∞ RPT (infinite repeat) button** turns Lexicon PSP42x into a phrase sampler. It will capture a length of audio input that is the same length as the set delay time. When the plug-in is in TIME mode, the phrase sampler is activated immediately when the RPT button is pressed, and it will continue to loop until RPT is turned off. When the plug-in is in CLK mode, the phrase sampler will activate at the next clock tick (CLK LED blink) after the RPT button is pressed and continue until the clock tick after RPT is turned off.

The internal sample rate can still be changed while in RPT mode by either the DLYx2 button or the modulation section, which results in playback speed and pitch alterations. When the loop is captured, a 10 ms crossfade is applied to its ends to avoid clicks. As the contents of the captured buffer are lost when the preset is changed, the RPT button position is not stored in a preset.

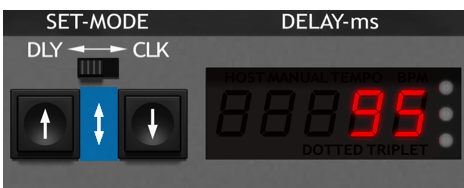


The **DLY<->CLK switch** switches between the two main Lexicon PSP42 operation modes. In DLY mode the delay time is set in milliseconds (ms), while in CLK mode the delay time is tempo-related (bars and beats). Delay values in DLY mode and CLK mode are stored independently as part of a preset.



The **DN/UP buttons** change the delay time up and down when in DLY mode. When CLK mode is on, the buttons navigate through the allowed bar/beat values. The fraction shown on the display shows the number of bars and the beat division; for example, 1 16 means the delay time is one 16th note. The word TRIPLET or DOTTED appears under the second number if applicable.

Shift-clicking will move through a much wider choice of time divisions, including unusual ones like 5/32 or 7/24.



The **DELAY TIME invisible sliders** let you set delay time or bar/beat value quickly with your mouse.

In DLY mode, clicking the left mouse button on either the up/down arrow between the DN and UP buttons or on the

MAIN DISPLAY and dragging up and down lets you set the delay time. Holding down the Shift key while dragging lets you make fine adjustments.

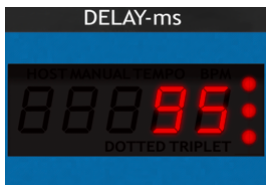
Holding down the Control (PC) or Command (Mac) key while clicking the DN/UP buttons or dragging either invisible slider lets you set the tempo of your song. However, this only works if the host application isn't providing the plug-in with tempo information. If the host is controlling tempo, this manual setting won't work, but the delay time will track changes in the host tempo automatically. See page 15 for more about this.



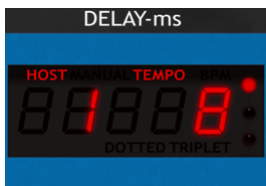
In CLK mode, clicking on the down arrow icon between the DN and UP keys opens a dropdown menu of possible bar and beat values. Shift-clicking opens a much larger menu with many more setting options.

NOTE: Be aware that the actual delay time is not only determined by the delay buffer size, which is set by the DN/UP buttons and invisible sliders. It will change according to the delay buffer sampling rate, which is affected by the modulation section, MANUAL knob, and DLYx2 button. If the MANUAL knob is set to x1 and modulation DEPTH are both set to 0, then the DELAY setting alone determines the delay time.

NOTE: If you try to set a delay time or bar/beat number that is larger than the plug-in's buffer can hold (28.8 seconds), the time or bar/beat value in the MAIN DISPLAY will blink.



The **MAIN DISPLAY** area has at its center a 5-digit display showing the current delay time in ms or the numerator and denominator of bar/beat values.



Above it, the words **HOST TEMPO** will appear if the host application is providing tempo information, and **TEMPO BPM** if the tempo is being set manually.

Below it, the words **DOTTED** or **TRIPLET** will appear if such a setting is made in **CLK** mode.

On the right are three red LED dots. The top one, labeled **CLK**, blinks in sync with the host tempo for the set bar/beat values. The middle one, labeled ∞ , indicates that **RPT** mode is on, and the bottom one, labeled **6kHz**, indicates that the **x2** mode is engaged.

As mentioned before, the displayed delay time in **DLY** mode is always the actual delay time, which depends on the set buffer length modified by changes to the sample rate – whether with the **DLYx2** button, **MANUAL** knob, or modulation. The actual delay time display will change in real time as it is affected by any of these controls.



If you hover your mouse over the display or **DN/UP** buttons, it will display the set delay time without any modulation, so it can be set precisely. Double-clicking on the display or **DN/UP** buttons lets you type in the exact delay time – which is handy for very long delays,

as it saves a whole lot of scrolling!



The **MANUAL knob** controls the internal delay buffer's sample rate in relation to the host sample rate. The internal rate can be set to any value between 0.5 and 1.5 times the host sampling rate. The internal sampling rate is also affected by the **LFO** and envelope detector, to the extent that is set by the **DEPTH** knob.

NOTE: The plug-in's sample rate must remain within the boundaries of 0.5 and 1.5. To maintain these limits, the more you turn up the modulation **DEPTH**, the less range the **MANUAL** knob has. With **DEPTH** turned all the way up, **MANUAL** has no effect at all.



The **DEPTH knob** sets how much the internal sample rate is affected by the modulation signal, which is a combination of the **LFO** and envelope detector signals.



The **WAVEFORM knob** switches between the two **LFO** waveforms available (sine and square), and controls the proportion in which the **LFO** and envelope detector signals are mixed to form the final modulation signal. At the two extremes, only the **LFO** affects the internal sample rate. In the center position, labeled **ENV**, only the envelope detector affects the internal sample rate.



The **RATE knob** sets the LFO frequency from a minimum of 0.1 Hz to a maximum of 10 Hz, with 1 Hz in the center position. The RATE LED blinks at this frequency, and its brightness shows the current LFO phase. When the rate is set manually like this, the RATE LED is green.



When Sync mode is on (via the extensions panel), the RATE knob loses its cap and becomes an encoder, where you can set the LFO rate in bar/beat values related to the host tempo. Clicking on the bar/beat value under the encoder opens a dropdown menu of possible values; shift-clicking shows a much larger list of possibilities. When in sync with the host tempo, the RATE LED is red.



The **RATE led** blinks at the frequency that is set by the RATE knob. Its instantaneous brightness depends on the phase the LFO is in at the moment.

Green: Hertz (normal) rate mode

Red: sync (tempo) rate mode



The **POWER button** is used to turn all processing on and off. Unlike Bypass mode, which sends only the Dry signal to the output, when Power is turned off the plug-in won't affect the signal at all.



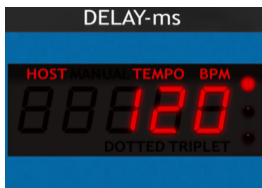
The **Lexicon PSP42 logo** brings up the Lexicon PSP42 back panel screen when clicked. Click anywhere on the back panel area to return to the plug-in's main panel.

NOTE: All Lexicon PSP42x knobs have default values that can be restored by a double click. Additionally all knobs, processing and direction modes' buttons have default values that can be restored by holding the Alt (PC) or Option (Mac) key while clicking on the control.

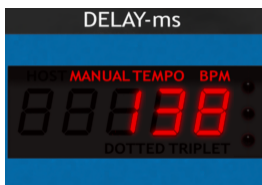
NOTE: In order to eliminate clicks that would have inevitably occurred if parameter values had been allowed to change abruptly, most of continuous Lexicon PSP42 parameters are subject to filtering that softens sudden changes in value. This and other techniques, such as zero crossing checks and real-time crossfades, successfully minimize unwanted artifacts during use.

NOTE: Direction Modes can be a cause of clicks when switching between fwd and bkwd or using reverse or bounce modes whenever a delayed phrase is not synchronized to a clock or is exceeding the delay buffer's length.

Manual Tempo Control



Normally, your host application (DAW) will provide a base tempo for Lexicon PSP42x, and all of the Note (bar/beat) values for delay times and LFO rates will be aligned with that tempo. If you hold down Control (PC) or Command (Mac) and hover your mouse over the display, it will turn red and read HOST TEMPO, showing the tempo set in your DAW. You can't change this number manually.



However, if for some reason your DAW isn't providing the plug-in with tempo data, the RATE display will show the words MANUAL TEMPO. This is the only time when you can set the base tempo manually.

As stated above, if you hold down CTRL(Win)/CMD(macOS) and hover your mouse over the display or arrow buttons, it will turn red and read MANUAL TEMPO. Now you can change the tempo with the invisible slider on display, or your mouse scroll wheel.

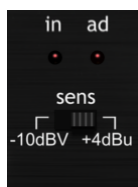
Extensions panel



The Extensions panel controls new functions that provide Lexicon PSP42 v. 2 with more power and more possibilities than its predecessor. Let's go through the controls and indicators, from left to right.



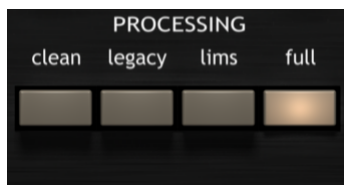
The **limiters LEDs** indicate the depth of input limiter and pre AD limiter processing in Lims and Full modes. In Legacy mode, the ad LED indicates the depth of tape saturator processing.



The **sens (Sensitivity)** switch lets you choose between two different input and output signal levels: the semi-professional -10dBV and the professional $+4\text{dBu}$. Combined with the reference knob, this will allow you to set the headroom of the processing, or even choose to overload the circuit if you wish. The -10dBV references to high sensitivity mode thus resulting in a high drive of internal limiters, saturator and converters.



The **reference** knob sets the reference signal level for the saturator, limiters, and converters. It has a range of -10 to $+10\text{dB}$ applied to the Sensitivity level. The lower the reference value the greater the level for limiters, saturator and converters.



PROCESSING sets the configuration of the various signal processing emulations, as discussed on pages 7–9:

clean: no limiter, saturator, or converter emulations in the processing path.

legacy: engages the tape saturator located just before the A/D converter, as was present in the original Lexicon PSP42 plug-in. This limiter affects the Wet path and Feedback signals.

NOTE: For backward compatibility please engage the ENV INV mode and set SENS to -10dBV .

lims: engages input and pre A/D opto limiters as in the hardware Lexicon PCM 42. The input limiter affects both Dry and Wet processing paths, while the other limiter affects the Wet and Feedback processing paths.

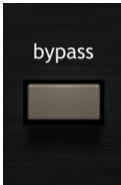
full: combines the limiters in Lims mode with emulation of the A/D and D/A converters. In the original PCM 42 hardware, the converters were non-linear, and provided their own special character to the sound of the delay.

NOTE: There is a slight converter's clock drift over time in the full processing mode which results in a very subtle delay modulation. This adds even more hardware like flavor to the sound of the plug-in. This effect can be observed on the delay display whenever long delay times are set.



hi-cut cutoff: sets the cutoff frequency of hi-cut filter (in kilohertz). The control ranges from 2 to 18 kHz; the default value, which was fixed on the original Lexicon PSP42 plug-in to roughly 6 kHz.

NOTE: Despite the display's 6kHz LED name, the LED refers to a limited bandwidth of the x2 mode, not the Hi Cut mode.



bypass: sets Bypass mode on or off. In Bypass mode, the Dry signal set by the Mix knob is passed through to the output, and is still affected by the input opto limiter (in Lims or Full mode). Processing does not stop, but the Output Mix's Wet signal and buffer inputs are muted.



DIRECTION: sets the direction in which the delay buffer is written to (recorded) and read from (played back). There are four modes:

fwd (Forward): The conventional operating state, as in a factory PCM 42, in which both reading and writing are done in the same direction.

bkwd (Backward): reading and writing go in the same direction, but in the opposite direction to Forward. Switching between Forward and Backward lets you hear a recorded phrase play once, as determined by the buffer length. You can think of these modes as tape delay operation, where the record and playback heads are on the same piece of tape running forward or backward.

reverse: reading and writing go in opposite directions, so you can hear reversed delays all the time. For the correct operation of this mode, the phrase length and start point should be synchronized to the delay time and host clock.

bounce: reading and writing go in opposite directions, and both change directions at the end of the delay buffer. In this mode, you will hear forward and backward delays alternating, each with a duration of half the buffer length.

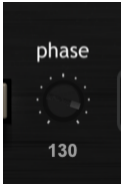
NOTE: Direction modes were designed upon the inspiration by modifications of a real hardware PCM 42 and their simplicity thus, when switching between modes or using reverse or bounce modes may cause clicks whenever a delayed audio phrase is not synchronized to CLK LED or exceeds the delay buffer's length.



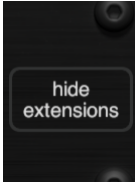
env inv: sets the envelope follower to inverted mode, which is a compatibility mode for the original Lexicon PSP42 plug-in.



Sync: turns LFO tempo synchronization on or off. When Sync is turned on, the RATE knob becomes an encoder and lets you set its rate in tempo-locked bars/beats, as described in more detail on page 14.



phase: sets the LFO waveform's phase offset (starting point) relative to the start of the song.
This control is only active when LFO Sync is turned on.



hide/show extensions: hides or shows the extensions panel controls.

Side Chain Bar

We provide PSP plug-ins, especially processors, with the PSPaudioware standard SIDE CHAIN BAR. You can access this bar at the bottom of the plug-in interface. Here you can select the side chain source, mix internal and external sources, and switch the plug-in into side chain monitoring (cue) mode.



INTERNAL/EXTERNAL Mix

The INTERNAL/EXTERNAL Mix slider sets the balance of internal to external signal in the final side chain audio channel.

If your DAW does not provide an external side chain source, or side chaining is turned off for the plug-in, the side chain audio channel will always be set to Internal, independent of the mix slider position.

INTERNAL

Click to quickly set the mix to 100% internal source.

EXTERNAL

Click to quickly set the mix to 100% external source.

MONITOR

Click to switch the plug-in into side chain listening (cue) mode.



If this mode is on, you'll hear the side chain audio that is being processed. To make it even more clear, that the side chain input is being monitored, the entire plugin GUI is tinted amber.

SIDE CHAIN LEVEL METER

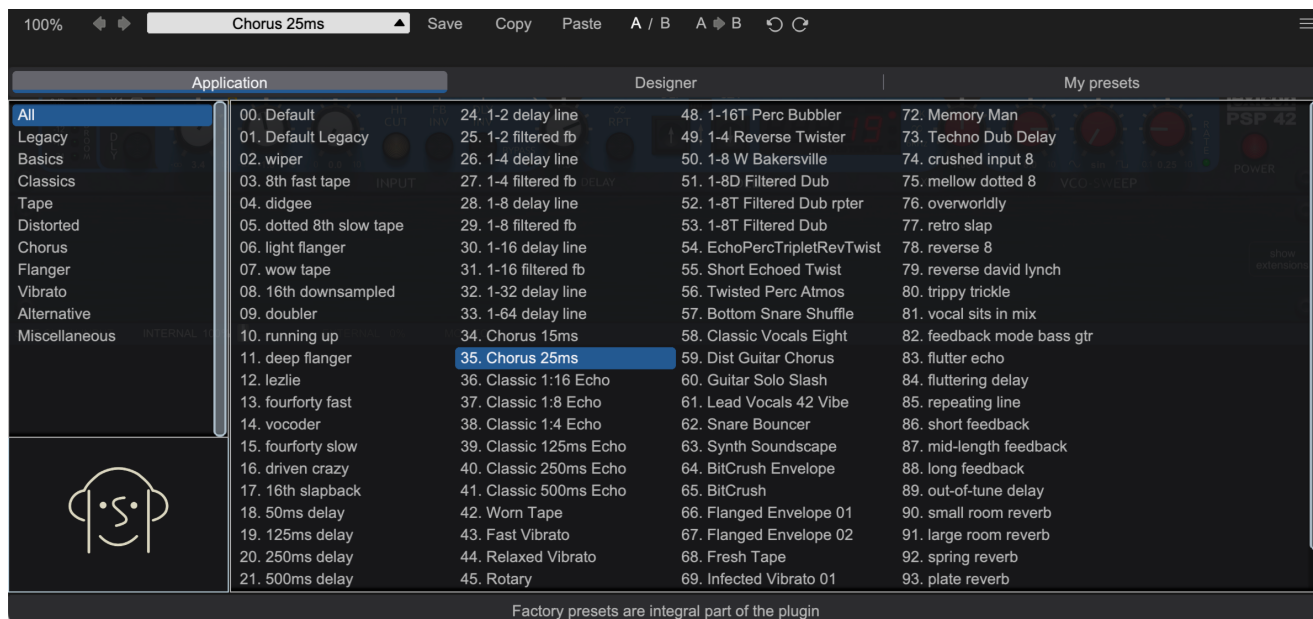
Shows the signal level of the side chain input.

On Lexicon PSP42x, the side chain feeds the envelope detector, allowing the delay time to be modulated by the level of an external audio signal if desired.

PRESET HANDLING AND VIEW OPTIONS

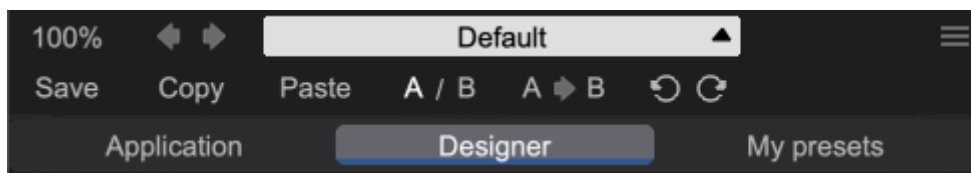
Every PSP plug-in comes with a large library of factory presets. You can use them as a starting point for experimenting with your own sounds, examine them to understand how the various features work, or keep them handy for when a track or mix needs a quick and high-quality way to create an effect or fix a problem.

To access the preset library, just click on the Preset Bar along the top of the plug-in window. If you're familiar with other PSPaudioware plug-ins, you'll find that this one works exactly the same way.



Preset Browser

Lexicon PSP42 v. 2 features a comprehensive preset management and browser system. To access the preset browser, simply click on the preset name window at the top of the plug-in (which displays 'Default' when the plug-in loads).



The new preset manager has three main categories which can be accessed via the tabs at the top of the preset browser: **Application**, **Designer**, and **My presets**.

Application – shows all factory presets, sorted by application or type of effect. These can be selected from a list on the left side of the preset browser.

Designer – shows all factory presets, sorted by designer. A photo of the designer is displayed for each of their presets. Click on the photo to open the designer's website.

My presets – shows only the presets you have created and saved, or downloaded and added to your custom presets for Lexicon PSP42.

NOTE: The Factory presets are built into Lexicon PSP42. While you can't edit them directly, you can make adjustments to them, and then save the result as a user preset.

To add categories to the preset list, you can create new subfolders in the preset directory.

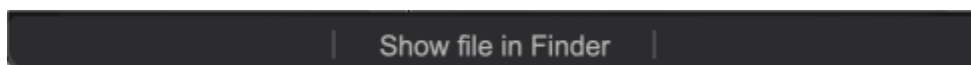
For Windows users, this is located at:

C:\Users\Username\Documents\PSPAudioware.com\User Presets\Lexicon PSP42x

For Mac users, this is located at:

~/Documents/PSPAudioware.com/User Presets/Lexicon PSP42x

NOTE: You can find the exact file location by clicking on the **Show File in Finder** button at the bottom of the preset browser window.



To select a preset, simply click a preset name in the right window. On the first click, the preset will be temporarily loaded so that you can audition it while still in the preset browser. To confirm the preset choice and get back to the main user interface, double-click the preset name again.

Copy / Paste

A dark rectangular button with the text 'Copy' and 'Paste' in white, separated by a small gap.

The **Copy/Paste** feature is useful for when you're running two or more instances of Lexicon PSP42 and you want them to have identical settings.

Of course, you can always open a new instance and load the same preset as your first instance has, but this only works if your first instance hasn't been tweaked at all since the preset was loaded. To share your tweaks between instances, use **Copy** and **Paste**.

To use this feature, simply click the **Copy** button, open a new instance of Lexicon PSP42 where it's needed, and click the Paste button to load the first instance's settings.

This feature can be particularly useful for processing similar instruments or sounds, when only a few minor tweaks are needed for each instance.

A/B System

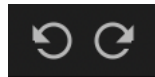
A dark rectangular button with the text 'A / B' and 'A → B' in white, separated by a small gap.

The **A/B system** lets you quickly audition changes to your settings. You can compare how different tweaks work in a track or mix, or even audition two different presets on the fly.

The **A/B Button** allows you to quickly switch between the current plug-in settings (**A**) and a previous group of settings that you've previously stored (**B**).

The **A>B Button** copies the **A** settings over to the **B** slot. This lets you temporarily 'bookmark' your current settings, make more tweaks, and then compare the new tweaks with your 'bookmarked' settings using the **A/B Button**.

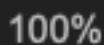
Undo / Redo



The **Undo/Redo** feature can be extremely important when designing presets! We all know the frustration when we make one too many edits and ruin a previously great sound. With the **Undo** and **Redo** buttons (the counterclockwise and clockwise arrows as shown above), you can step backward and forward through your edit actions until you're back where you wanted to be.

These buttons will let you undo a preset selection, returning you to your previous preset with all settings as they were when you stopped editing it.

GUI resizing

A dark rectangular button with the text '100%' in white.

The percentage at the top left shows the current user interface size. Click on it to reveal a dropdown menu of size choices, or hover your mouse on it and scroll up and down to change the size quickly. Double-click to reset it to the default size (100%).

You can also resize the plug-in interface by click- dragging the right bottom corner of the plug-in to any size you like.

Config section



Click the icon with three parallel lines in the top right corner to open the **CONFIG** menu. You will find controls to open the manual, hide or show mouse-hover tool tips (Hints), and check your current plug-in version with build number.



These functions are also available in the **Global Settings tab** on Lexicon PSP42's rear panel, which is accessed by clicking the Lexicon PSP42 logo on the front panel.

Clicking the Plug-in Information and Settings tab gives you controls for

Note view style: how the Main Display shows note values in CLK mode. The two options are:

Music:

PCM42:

Default extensions panel: sets whether or not the plug-in launches with the extensions panel closed (Hide) or open (Show).

IMPORTANT NOTE ON PRESET COMPATIBILITY WITH THE LEGACY PLUG-IN:

Lexicon PSP42 v. 2 will appear on plug-in lists in your DAW as a different plug-in than Lexicon PSP42 as Lexicon PSP42x. Presets in Lexicon PSP42 v. 2 are not backward compatible, but presets in Lexicon PSP42 can be loaded via the PSP preset system. While you can run the legacy and new versions in parallel, we strongly recommend that you switch to the new version for your current and future projects.

Minimum System Requirements

PC

VST3

- Windows 7 – Windows 11
- 64-bit VST3 compatible application

VST

- Windows 7 – Windows 11
- 64-bit VST compatible application

AAX

- Windows 7 – Windows 11
- 64-bit Pro Tools 11, 12 or Pro Tools HD 11, 12 or Pro Tools Ultimate

All DAWs

- The latest iLok License Manager application installed (iLok USB license key not required)

Mac (both Intel and Apple Silicon processors are supported)

AudioUnit

- macOS 10.12 – macOS 14 Sonoma
- 64-bit AudioUnit compatible host application

VST

- macOS 10.12 – macOS 14 Sonoma
- 64-bit VST compatible host application

VST3

- macOS 10.12 – macOS 14 Sonoma
- 64-bit VST3 compatible host application

AAX

- macOS 10.12 – macOS 14 Sonoma
- 64-bit Pro Tools 12 or Pro Tools HD 12 or Pro Tools Ultimate

All DAWs

- Up to date iLok License Manager application installed (iLok USB license key not required)



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Processing

- All internal processing done with 64-bit double precision floats.
- Lexicon PSP42 supports 32-bit and 64-bit floating point audio streams.
- Lexicon PSP42 supports sample rates up to 384 kHz.

Limitations of the demo version

We offer a 30-day evaluation period without any audio interruptions or control limitations. To get access to the plug-in and your unique authorization details, simply login to your account at our [user area](#).

Enjoy !

PSP team

Support

If you have any questions about any of our plug-ins, please visit our website:

www.PSPAudioware.com

Where you can find the latest product information, free software updates, online support forum and answers to the most frequently asked questions.

Problems with the installation, activation or authorization?
Please watch our [troubleshooting video tutorials](#) on our YouTube channel.

You can also contact us by e-mail: support@PSPAudioware.com.
We will gladly answer all of your questions. As a rule we respond within 24 hours.

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