

Lexicon PSP 42



Operation manual

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Table of Contents

Acknowledgements	4
End User License Agreement.....	5
Overview	6
Features	6
Applications	6
Minimum system requirements.....	7
Compatibility	7
Limitations of the demo version	8
Installation	9
VST hosts.....	9
DirectX hosts	9
MAS hosts.....	9
Internal architecture.....	10
Controls and meters.....	12
Factory presets.....	17
How to use presets?	17
Using presets in Cubase, Nuendo or WaveLab	17
Using presets in Logic	17
Using presets in other VST hosts	17
Using presets in Sonar or other DirectX host	18
Using presets in DigitalPerformer or AudioDesk.....	18
External controllers and automation	19
Support	21
User Comments	21

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Overview

Lexicon PSP 42 is high-quality digital stereo delay and phrase sampler based on the legendary Lexicon PCM42 processor famous for its distinctive sound and unique concept. Lexicon PSP42 has been carefully designed to accurately reproduce the flexibility and warmth of this renowned classic. This has been accomplished by incorporating precise tape saturation algorithm and a delay line operating with variable sampling rate which simulates physical properties of vintage tape machine delays. The plug-in has been designed with consideration to preserve maximum signal quality at every processing stage. The Lexicon PSP 42 is capable of generating 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 allows the user to add subtle animation or swing to the processed signal as well as to create unpredictable, alien sounds when pushed to its limits. The freely adjustable delay line sampling frequency makes Lexicon PSP 42 a good tool for creating low-fi effects that sound smooth thanks to the superior characteristics of employed interpolation algorithm. Close attention has been paid to make the unit operate without audible clicks or pops.

Features

- High quality signal processing algorithms,
- Up to 9600 ms of delay time depending on internal sampling frequency,
- Continuous control of delay time,
- Tight synchronization to the host tempo and its changes,
- Tape saturation simulation based on the algorithm used in the line of our mastering processors,
- Low pass filter for high frequency absorption modeling,
- Modulation section with three different modulation signal sources (sinus, square, envelope detector) mixed in any proportions,
- Phrase sampler capability,
- Parameter filtration and on-the-fly cross-fades for smooth and click-free operation,
- Support for sampling rates of up to 192kHz,
- MIDI and VST automation,
- Logic Control support.

Applications

The Lexicon PSP 42 is primarily intended for processing individual tracks within a mix. It can be productively used to add superior sounding delay-based effects to solo instruments and vocals as well as to simulate vintage delay with tape saturation, high frequency absorption and variable tape speed. Tempo locking and handy modulation section make Lexicon PSP 42 an essential tool for experimenting with drum loops and other rhythmic patterns. Variable delay line sampling rate allows to generate good sounding low-fi effects as well as out-of-this-world sounds. Short delay times, pitch modulation and phase inverters reveal Lexicon PSP 42 potentials as a source of vibrant modulation effects such as flanger and doubler. Last but not least Lexicon PSP 42 is a simple phrase sampler that lets you capture the loop of audio and process it real-time without any clicks or pops.

Minimum system requirements

- **Windows 98**
- 128 MB RAM
- Pentium II 300 MHz
- High Color S-VGA 1024x768
- VST or DX compatible host application

- **MacOS 8.5**
- 128 MB RAM
- G3 300 MHz
- High Color S-VGA 1024x768
- VST or MAS compatible host application

The particular host application being used, directly affects the operation of the plug-ins being used and may limit their functional operation or even interfere with their proper operation. PSPaudioware.com s.c. accepts no responsibility for this.

Compatibility

Lexicon PSP 42 is compatible with applications that can host standard VST, DX or MAS plug-ins. The product has been tested with the following applications:

- AudioDesk for Mac
- CoolEdit for PC
- Cubase for PC & Mac
- Cubase SX for PC
- Cubasis VST for PC & Mac
- Deck for Mac
- Digital Performer for Mac
- Logic for Mac & PC
- n-Track Studio for PC
- Nuendo for PC & Mac
- Orion for PC
- Paris for PC
- Peak for Mac
- Samplitude for PC
- Sonar for PC
- sonicWORX for Mac
- SoundForge for PC
- Spark for Mac
- WaveLab for PC

If your VST, DX or MAS host application is not listed above we strongly recommend that you install and test the demo version of the Lexicon PSP 42 for compatibility before purchase. We

would also appreciate it if you could provide us with information about your VST, DX, MAS configuration so that we can test it ourselves (contact@pspaudioware.com).

Limitations of the demo version

Processing stops every 15 seconds.

Installation

To install the Lexicon PSP 42, run the installation program and follow the installation instructions on the computer screen. Please make sure that you select the appropriate plug-ins folder for your host application.

VST hosts

VST applications (such as Cubase, Logic, Nuendo, WaveLab) require to install VST plug-ins into special folder. Some of them use a kind of shared plug-ins' folder. This is often the case for Steinberg's products for example. In most cases however, a VST application accepts plug-ins installed in the Vstplugins subfolder under the main applications folder. For instance
C:\ProgramFiles\Emagic\Logic Audio Platinum 4.8\Vstplugins

If you want to use the Lexicon PSP 42 in more than one VST application, you have to manually copy the 'Lexicon PSP 42.dll' file, which has already been installed into the chosen folder, to the appropriate (VST compatible) host application folder. For example, Cubase VST hosts VST plug-ins in its 'Vstplugins' folder. Cubase VST 5.0 can also host plug-ins in a shared folder called 'Shared VST Plug-ins Folder'. This folder is usually located at 'C:\Program Files\Steinberg\Vstplugins'. Logic Audio hosts VST plug-ins in its 'Vstplugins' folder.

In order to install the Lexicon PSP 42 in other VST compatible applications, you should refer to the particular application's operating manual.

In order to install the Lexicon PSP 42 in a DX compatible application, you should choose any folder like

'C:\Program Files\DXplugins' or 'C:\Program Files\PSPplugins'

DirectX hosts

All DirectX applications (such as Sonar, Cool Edit, Samplitude, Sound Forge) allow you to install plug-ins and documentation in whatever folder you like. You can choose any folder like 'C:\Program Files\DXplugins' or 'C:\Program Files\PSPplugins'

Just make sure that you don't use an empty folder path to install our plug-ins. This may happen when the setup application couldn't find a default installation path.

MAS hosts

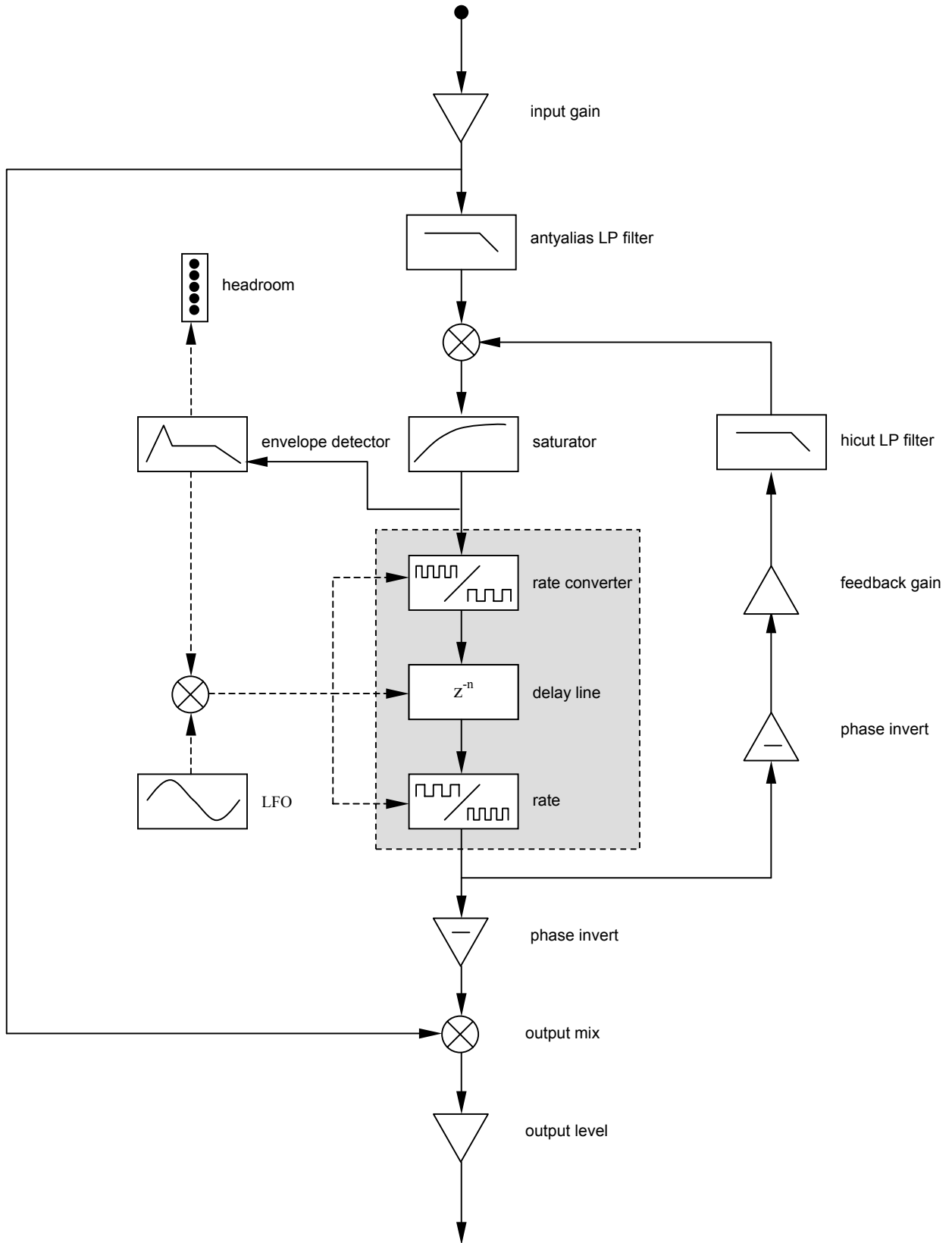
Digital Performer and AudioDesk requires MAS plug-ins to be located in the special system subfolder. Our setup application for MAS platform automatically installs plug-ins into that folder. You just need to choose a preferred location for the documentation.

Internal architecture

The Lexicon PSP 42 is built around a delay line, operating with a variable sampling rate. The rate can be adjusted continuously within the limits of 0,5 to 1,5 of the host sampling rate. Activating the DLYx2 button, further reduces the delay line sampling rate to half of its value. To make the Lexicon PSP 42 sound good when operating within such a wide range of sampling rates, a 4-pole low-pass variable filter is applied to the input signal to attenuate frequencies that could cause aliasing. The sample rate converters that are located before and after the delay buffer, provide low harmonic distortion thanks to a superior interpolation algorithm. Such an architecture allows for continuous modulation of the actual delay time. The modulation section, consisting of a LFO and an envelope follower, is capable of generating sinus and square waveforms. The Envelope follower and LFO signals can be mixed in any proportions to make up a final modulation signal that is used to control the delay line sampling rate. Modulating the delay line sampling rate results in the delay time and pitch to be altered.

The Saturation circuit enriches the harmonic contents of the input and feedback signals, adding warmth and punch. The saturation effect is almost not perceptible when the signal level is low, but becomes clearly audible when it rises. Its main purpose is to simulate magnetic tape characteristics for convincingly sounding tape delay emulation, but it can also be used to add punch or distortion to the signal as well, provided that the signal level is high enough.

The Signal path is 32-bit float all the way through, to preserve the bit-depth and the dynamic range of the input signal.



Block diagram: Lexicon PSP42 signal path.

Controls and meters

All the Lexicon PSP 42 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 the Lexicon PSP 42 very easy, even for an inexperienced user. However, it is strongly recommend to read this manual, as it describes some more advanced features that will let you fully explore the potential of the Lexicon PSP 42 .



The **HEADROOM meter** indicates the input+feedback signal level. It is plugged in right after the saturation block. The level indicated by the meter controls the envelope follower circuit that is generating the modulation signal. To monitor and adjust the input signal level, only turn the **FEEDBACK knob** to 0 (keep in mind that the level shown is always lower or equal to the actual input of the signal, due to the saturation being applied).



The **DLYx2 button** doubles the actual and maximum delay time by changing the delay line sampling rate to half of its value. Lowering the sampling rate affects the frequency band too, creating a low-fi effect which is interesting on its own. When DLYx2 is pressed, the pitch of the wet signal will vary because the delay buffer has been captured while operating with a different sampling rate. After the whole buffer has been played back, provided the sampling rate remains constant, the buffer is filled and played back with the same rate and the actual pitch of the input signal is preserved, unless RPT mode is on.



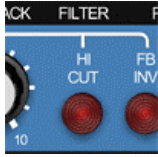
The **INPUT knob** controls the input signal gain within the range of $-\infty$ to +12 dB with 0dB being in the middle position. As the input signal goes through the saturation block further in the processing path, the setting of the input gain affects signal harmonic contents too.



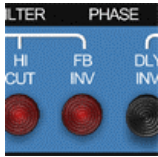
The **OUTPUT knob** attenuates or amplifies the Lexicon PSP 42 output signal level (wet+dry). In center position the output signal is unaffected. Turning the knob counterclockwise attenuates the signal until there is no sound coming from the unit at all while turning it clockwise amplifies the signal up to +12dB.



The **FEEDBACK knob** controls the attenuation that is applied to the signal being fed from delay line output back to its input, therefor affecting 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 corner frequency is fixed at 4kHz and the filter roll-off is 6db/octave. 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.



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. To avoid clicks that would have inevitably occurred if the phase had been changed immediately after the button activation, the phase is inverted on the next zero crossing.



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. The phase is actually inverted on the next zero crossing to avoid clicks.



The **BYPASS led** is lit when plug-in is in bypass mode, which can be activated by switching off the POWER button. While in bypass mode, the processing does not stop and is still continued in the background. The only difference is that the wet signal is no longer sent to Lexicon PSP 42 output. This ensures that the plug-in immediately returns to the state it would have been in, if bypass had not been activated at all.



The **OUTPUT MIX knob** controls the proportion in which dry and wet signals are present in the Lexicon PSP 42 output. In the middle position both signals are attenuated by -6dB.



The **RPT button** turns the Lexicon PSP 42 into phrase sampler mode. The time of the captured audio loop is equal to the current delay time that is set. If the Lexicon PSP 42 is in DLY mode (controlled by DLY\leftrightarrowCLK button described below), then the phrase sampler mode is activated immediately after the button has been pressed. Alternatively, when in CLK mode, this mode will be actually activated as soon as the CLK led blinks. This allows the perfect loop to be captured if the delay time is tempo-locked. Right after activation, the input signal is recorded into the internal buffer and then played back over and over again until RPT is switched off. The internal sampling 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 alteration. When the loop is captured, the 10 ms cross-fade is applied to its ends to avoid clicks. As the contents of the captured buffer is lost when preset is changed, RPT button position is not stored in a preset either.

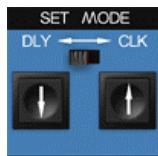


The **DLY<>CLK switch** switches between the two main Lexicon PSP 42 operation modes. In DLY mode the delay time is set in ms using DN/UP buttons or any of two the invisible sliders available. In CLK mode time is tempo-related. If your host is capable of providing the plug-in with tempo information, Lexicon PSP 42 will automatically lock to it. If not - it is still possible to set the tempo manually by dragging the invisible sliders while in CLK mode. The DN and UP buttons navigate through the allowed numerator and denominator values, respectively. When either shift or ctrl is pressed, the numerator/denominator value is decreased. The resulting fraction is the delay time as part of one bar (e.g. $\frac{1}{4}$ means the delay time of one beat or quarter note). If the resulting actual delay time exceeds the maximum allowed value (due to the limited delay buffer size) the numerator and denominator values start to blink. If plug-in is locked to the tempo information received from host application, tempo changes affect the actual delay time in real time.

When switched from CLK to DLY mode, the delay time in ms is always set to be equal to the time resulting from the numerator/denominator settings and tempo. It enables the delay time to be set in rhythmic units in CLK mode and then to be made independent to host tempo changes, by switching to DLY mode. The fine adjustments can be applied as well if the exact timing is not intended.

When switched from DLY to CLK there are three possible ways the Lexicon PSP 42 can act, depending on the key pressed while switching:

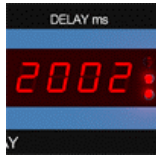
- *no key* - the recent numerator and denominator values are restored,
- *alt* - the latest denominator value is restored and numerator is recalculated to match the tempo, set in ms as close as possible,
- *shift* - both the numerator and denominator are recalculated to match the tempo set in ms, as close as possible.



The **DN/UP buttons** change the delay time up and down when in DLY mode. Shift and ctrl keys alter the step size to 10 and 100, respectively. When CLK mode is on, the buttons navigate through the allowed numerator and denominator values. Please note that changing the denominator value, may imply the automatic change of the numerator value too, if the resulting delay time exceeds the internal buffer size. Be aware that the actual delay time is the result of the delay buffer size, which is set by DN and UP buttons and invisible sliders, and the delay buffer sampling rate which is affected by the modulation section, MANUAL knob and DLYx2 button.



The **DELAY TIME invisible sliders** let the delay time and tempo to be controlled with the mouse in a convenient way. Clicking the left mouse button on any of the sliders and dragging left and right (or up and down for faster changes) controls the delay time or tempo depending on the mode Lexicon PSP 42 is operating in. Pressing shift while dragging allows for fine adjustments. Manual tempo adjustment is not possible if host application provides the plug-in with tempo information.



The **MAIN DISPLAY area** consists of two parts, – a four digit display showing the current delay time in ms or the numerator and denominator values and three leds, one of which blinks in sync with the host tempo and the numerator/denominator values set, while the other two indicate the RPT mode and HI CUT filter, respectively. The Delay time in ms is always the actual delay time which depends not only on the delay buffer length as set with DN/UP buttons and invisible sliders, but also on the sampling rate that the buffer is operating with. Any change of the sampling rate caused either by pressing DLYx2 button or by modulation section activity and the MANUAL knob, will affect the delay time that is displayed. The whole area of the display has been arranged to act as an invisible slider for more intuitive delay time control.



The **MANUAL knob** controls the internal delay buffer sampling rate, in relation to the host sampling rate. The internal rate can be set to any value between 0,5x and 1,5x of the host sampling rate. Note that the internal sampling rate is affected by the LFO and envelope detector, as well as to the extent that is controlled by the DEPTH knob. To keep the resulting internal sampling rate within allowed boundaries of 0,5x...1,5x, the MANUAL knob operation range is narrowed if the DEPTH knob is set to a value greater than 0. When DEPTH is in its maximum position, the MANUAL knob does not affect the processing at all.



The **DEPTH knob** sets to what extent the internal sampling rate, which determines delay time and playback pitch, is affected by the modulation signal consisting of the LFO and envelope detector signals.



The **WAVEFORM knob** switches between the two LFO waveforms available (sinus and square), and controls the proportion in which the LFO and envelope detector signals are mixed to form the final modulation signal that is controlling the internal sampling frequency.



The **RATE knob** sets the LFO frequency that is ranging from 0.1Hz, through 1Hz in the middle position, to the maximum of 10Hz. The RATE led blinks at this frequency and its brightness shows the current LFO phase.



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.



The **POWER button** is used to turn bypass mode on. Bypass is active when the POWER button is switched off. Refer to the BYPASS led description to learn about the specific way the Lexicon PSP 42 operates while it's in bypass mode.



The **Lexicon PSP 42 logo** brings up the Lexicon PSP 42 back panel screen (containing developer and authorization information) when clicked upon. Click anywhere on the back panel area to return to the plug-in's main panel.

All the Lexicon PSP 42 controls have default values that can be restored by holding the ctrl key while clicking on the control's area.

In order to eliminate clicks that would have inevitably occurred if parameter values had been allowed to change abruptly, every continuous Lexicon PSP 42 parameter is subject to filtering that softens sudden changes of its value. This and other techniques, such as zero crossing checks and real-time cross-fades, successfully minimize unwanted artifact that could be produced during operation.

Factory presets

Although setting the Lexicon PSP 42 from scratch is a breeze, thanks to the intuitive graphic user interface, the plug-in has been equipped with a large number of factory presets that are presenting its potential applications and covering most of its capabilities. The Factory preset allow for a quick start and are a good starting point for further adjustments and experiments.

Switching between presets is smooth and does not cause any audible clicks. That makes it possible to automate preset changes in your mix and achieve pristine clean results.

The Lexicon PSP 42 contains following 16 presets:

1. wiper,
2. 8th fast tape,
3. didgee,
4. dotted 8th slow tape,
5. light flanger,
6. wow tape,
7. 16th downsampled,
8. doubler,
9. running up,
10. deep flanger,
11. lezlie,
12. fortyfour fast,
13. vocoder,
14. fortyfour slow,
15. driven crazy,
16. 16th slapback.

How to use presets?

Using presets in Cubase, Nuendo or WaveLab

To use our presets under Cubase, Cubasis or Nuendo just click on the preset arrows to try programs one by one. Alternatively, you can open the preset list to choose a preset from. To use presets under Wavelab just click on the PRESETS box and select a preset from the list.

Using presets in Logic

To use presets under Logic just click on the PROG01 text box. The preset list will appear. Click on the name of the preset to load it.

Using presets in other VST hosts

Refer to your host application's manual for details on using internal VST presets. There are still some VST applications (such as Paris or WaveBurner) which don't support internal VST presets. In that case we recommend users to share presets between users.

Using presets in Sonar or other DirectX host.

DirectX versions of our plug-ins contain a special additional preset bar over the main plug-in's area. This preset bar allows users to choose internal PSP presets as well as store and load their own programs and banks of programs. Click on the text box with a preset name to open a popup window which contain a list of presets. Then click on one of those presets to immediately load it. Click on a triangular arrow to open a popup which contains options to load and save banks or programs in a VST compatible format. These saved presets will be compatible with most VST applications. Click on the EDIT text to edit name of a program.

Using presets in DigitalPerformer or AudioDesk

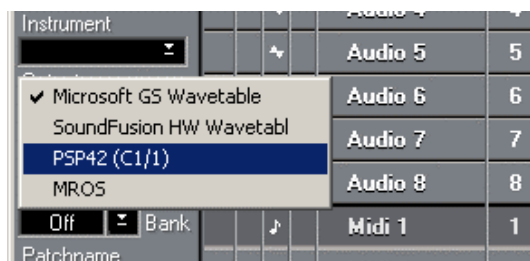
MAS versions of our plug-ins contain an additional preset bar above the main plug-in's area. Use the preset text box to choose a preset. You can also use options menu to load and save modified programs.

External controllers and automation

Every Lexicon PSP 42 parameter can be automated, provided that your host application supports it. Many of the VST compatible commercial sequencers and multitrackers available are capable of recording and sending automation information. However, some hosts contain limitations, such as a restricted number of automatable parameters per plug-in or low automation resolution, that can make automation difficult or impractical. If you encounter any problems over automating the Lexicon PSP 42 parameters, always refer to your host application documentation for details.

Besides VST automation, the Lexicon PSP 42 can be controlled via **MIDI**. This can be used for real-time control of the plug-in using any MIDI controller capable of sending MIDI Control Change (CC) messages. Since the MIDI Control Change resolution of 7 bits is insufficient for precise control of the delay time, it has been split into two CCs – one for coarse and another for fine adjustments.

Once the Lexicon PSP 42 has been activated in your host application by plugging it anywhere in the audio path, the new MIDI port (usually named Lexicon PSP 42...) becomes accessible:



The Plug-in's engine and user interface respond to the messages that are sent to any channel of this port. Furthermore, MIDI automation can be used to overcome problems, arising when number of automatable parameters is limited by the host application.

The Lexicon PSP 42 has been designed, developed and tested to work properly with **Logic Control** from Emagic. Plug-in parameter values can be changed in real-time using LC faders and V-pots. The parameter names and their values appear on Logic Control's display, making navigation easy and convenient.

The table below lists all the Lexicon PSP 42's automatable parameters and corresponding MIDI messages.

PARAMETER	MIDI MESSAGE
Input	CC* 102
Output	CC 103
Mix	CC 104
DlyTime coarse	CC 105
DlyTime fine	CC 106
DlyX2	CC 107
DlyInv	CC 108
Fbck	CC 109
HiCut	CC 110
FbInv	CC 111
ManVCO	CC 112
Depth	CC 113
Waveform	CC 114
Rate	CC 115
RptInf	CC 116
Power	CC 117
Dly<>Clk	CC 118

*CC - MIDI Control Change message.

Support

If you have any questions about the principles or operation of our plug-ins, please visit our web site www.PSPAudioware.com where you can find the latest product information, free software updates and answers to the most frequently asked questions.

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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User Comments

We welcome any opinions and comments related to Lexicon PSP 42. We would also be grateful if you shared with us your experiences using Lexicon PSP 42. For example, if you've created a useful preset then let us know.

Please, contact us at: contact@PSPAudioware.com