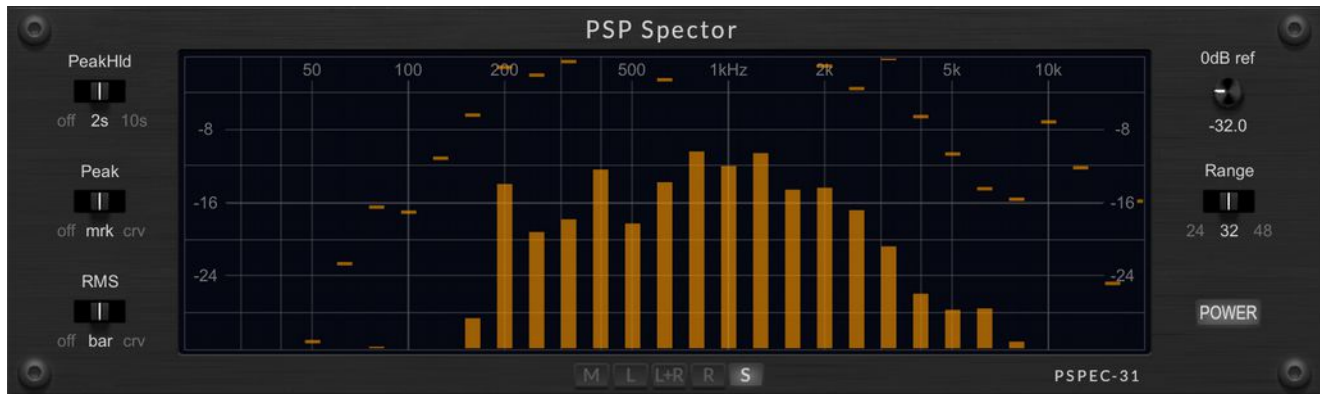


# PSP Spector

31 band spectrum analyser



## Operation Manual

[PSPaudioware.com](http://PSPaudioware.com)

## Acknowledgments

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- PSP team

## Special thanks go out to:

Thanks to all our users around the world for ideas and help in the development of new plug-ins!

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## Table Of Contents

ACKNOWLEDGMENTS.....	2
SPECIAL THANKS GO OUT TO:.....	2
END USER LICENSE AGREEMENT.....	4
FEATURES.....	5
PSP SPECTOR PANEL.....	6
PSP SPECTOR PSPEC-31 CONTROLS:.....	6
REAR PANEL.....	8
PRESET HANDLING AND VIEW OPTIONS.....	9
PRESET BROWSER.....	10
COPY / PASTE.....	11
A/B SYSTEM.....	11
UNDO / REDO.....	11
GUI RESIZING.....	12
CONFIG SECTION.....	12
MINIMUM SYSTEM REQUIREMENTS.....	12
PROCESSING.....	14
SUPPORT.....	15

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PSPaudioware.com s.c.  
Bugaj 12;  
05-806 Komorów,  
Poland.

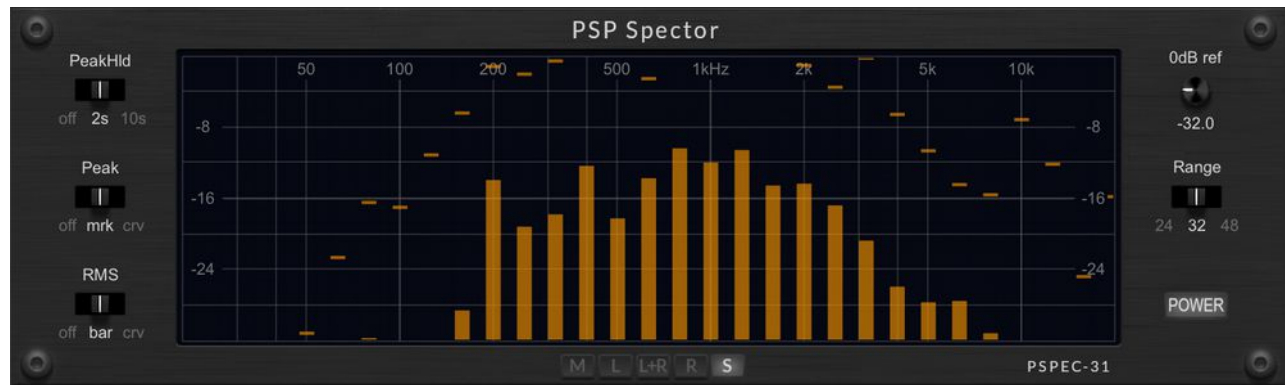
## Overview

**PSP Spector** is a 31 band spectrum analyser. It was originally introduced as PSP Spector PSPEC-31 in PSP ConsoleQ and oPSP preQursor3. Now PSP Spector is available as an independent plug-in. It offers both: peak and RMS measurements and provide several visual adjustments. PSP Spector doesn't influence the sound of the track and is solely dedicated to the spectrum measurement.

## Features

- 31 band spectrum analysys.
- Selectable dB range.
- Adjustable 0dB reference level.
- Selectable channel to be displayed.
- Selectable peak hold time.
- Selectable Peak mark lines or curve view.
- Selectable RMS bars or curve view.
- High Pass Filter.
- 15 tutorial factory presets.
- Adjustable size.

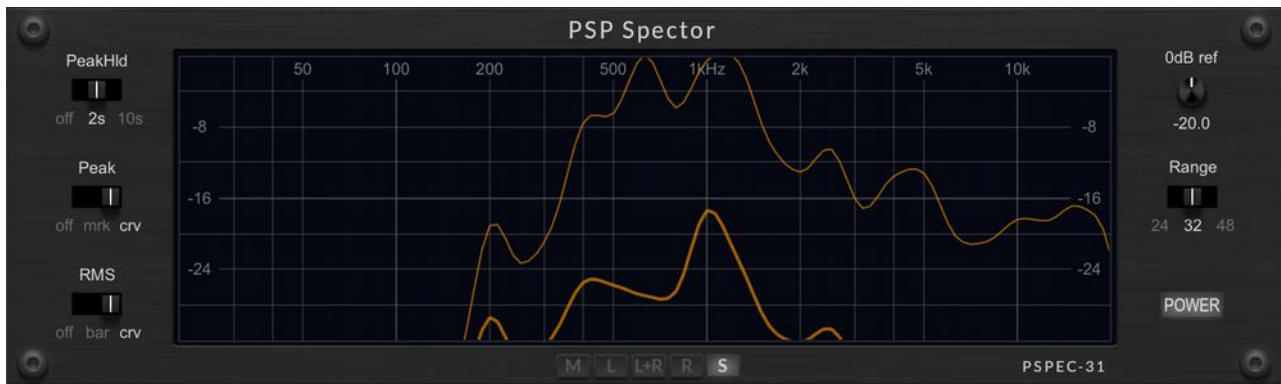
## PSP Spector panel



PSP Spector offers a 31-band spectrum analyser, which lets you observe the spectrum of the track, group or mix.

The analyser's spectrum can be displayed in several views:

- a bar-graph view with peak values for each band displayed as floating line markers above each band (as shown above);
- a smooth curve view with peak values for each band displayed as floating markers; or
- a smooth curve view with peak values for each band displayed as a higher curve (as shown below)



**NOTE:** Although the curve mode may resembles a Fast Fourier Transform (FFT) display, it is still a 1/3-octave measurement, interpolated for a smooth overview curve on the display.

### PSP Spector PSPEC-31 controls:

**Peak Hold switch:** Selects the peak hold time to off (left), 2 seconds (middle) or 10 seconds (right)

**Peak switch:** Selects how bands' peak values are displayed: off (left), floating line markers (middle), or smooth curve (right).

**RMS switch:** Selects the analyzer's main display of RMS signal values: off, (left), bar graph (middle), or smooth curve (right).

**0dB ref:** This trimpot sets the reference level offset for 0 dBFS measurement. The numerical scale on the right side of the display shows the dBFS value when the reference is set to 0. Negative values move the 0 dB reference down; at these settings, the displayed spectrum is boosted. Double-click the trimpot to set a default reference value of  $-20.0$  dB; the range is  $-40.0$  dB to 0 dB.

**Range switch:** Selects the level range on the display graph: 24 dB (left), 32 dB (middle), or 48 dB (right).

**Power button:** Sets the display to On or Off mode.

## Rear panel

Clicking on the front panel's PSP Spector label opens the rear panel About box, on the Plugin Settings tab. Click on the link to open the PSPaudioware.com website. Click on any label other than the web site link to close the rear panel and return to the front panel.



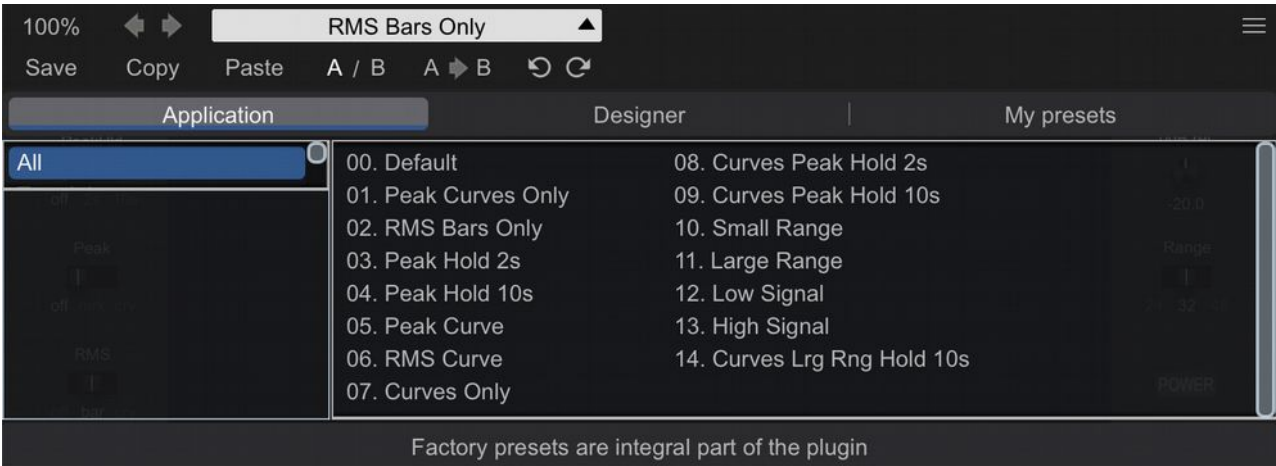
The Global Settings tab lets you access this manual or set whether Hints (floating information boxes that appear when hovering over a control) are visible or not. It also shows the installed version of the software, for help with troubleshooting. Please go to **Config section** of this manual for more details.



# 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

PSP Spector 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 PSP Spector.

**NOTE:** The Factory presets are built into PSP Spector. 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.

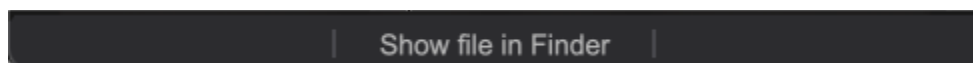
For Windows users, this is located at:

**C:\Users\Username\Documents\PSPaudioware.com\User Presets\PSP Spector**

For Mac users, this is located at:

**~/Documents/PSPaudioware.com/User Presets/PSP Spector**

**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 words "Copy" and "Paste" in a light gray sans-serif font, 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 PSP Spector 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 two parts. The left part shows "A / B" and the right part shows "A" followed by a right-pointing arrow and "B".

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



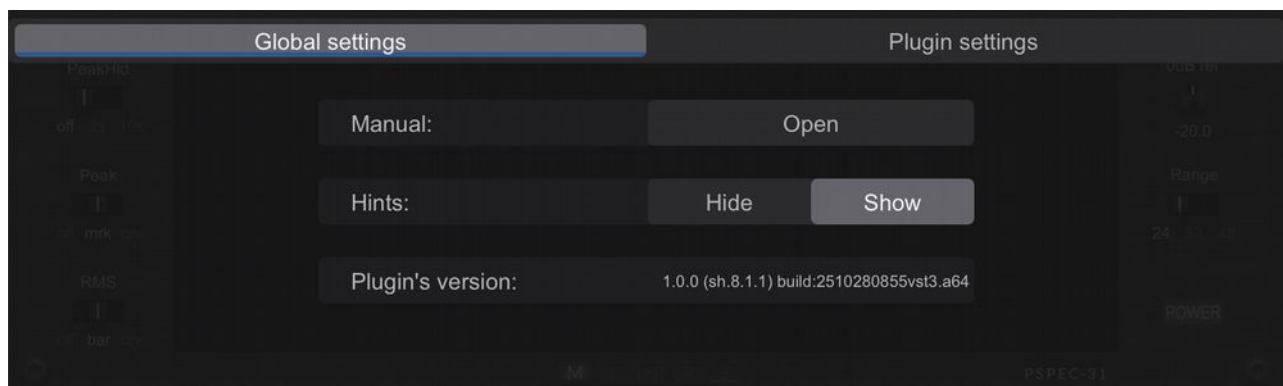
The percentage at the top left shows the current user interface size. Click on it to reveal a dropdown menu of size choices, or hover your mouse on it and scroll up and down to change the size quickly. Double-click to reset it to the default size (100%).

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 PSP Spector back panel, which is accessed by clicking the PSP Spector name on the front panel.

Clicking the Plug-in Information and Settings tab returns you to the main view.

## Minimum System Requirements

In order to run PSP Spector, you'll need to install the free [iLok License Manager](#) application, but you don't need a hardware dongle. By default we provide 3 licenses which can be activated in 3 separate locations, each of which can be either a computer or an iLok dongle (2nd generation or above). You can move these licenses at any time using PACE's iLok License Manager software.

## Windows

## **VST**

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

## **VST3**

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

## **AAX**

- Windows 7 – Windows 11
- 64-bit Pro Tools

## **All DAWs**

- Up to date iLok License Manager application installed

## **macOS Intel or macOS AppleSilicon**

### **AudioUnit**

- macOS 10.14 – macOS 26 Tahoe
- 64-bit AudioUnit compatible host application

### **VST**

- macOS 10.14 – macOS 26 Tahoe
- 64-bit VST3 compatible application

### **VST3**

- macOS 10.14 – macOS 26 Tahoe
- 64-bit VST3 compatible host application

### **AAX**

- macOS 10.14 – macOS 26 Tahoe
- 64-bit Pro Tools

### **All DAWs**

- Up to date iLok License Manager application installed



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## Processing

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

## PSP Spector and Plug-in Latency

PSP Spector doesn't introduce any latency.

**Enjoy!**

– the PSP team

## Support

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

**[www.PSPaudioware.com](http://www.PSPaudioware.com)**

The website is 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](mailto:support@PSPaudioware.com).

We will gladly answer all of your questions. As a rule we respond within 24 hours.

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