

# Vertigo Sound VSE-4

## VST3 / AU / AAX Plug-In User Manual



Version 1.0

# Vertigo Sound VSE-4 Plug-In

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# Vertigo Sound VSE-4 Plug-In

## Preference Settings



Click Logo to show Preferences



Version Number

VSE-4 version 1.0.166

Enable circular mouse control for all sliders

Circular slider control

Use 16x auto oversampling for non-realtime bounce / export

Auto 16x at export

Oversampling Factor

Oversampling  
2x 4x 8x 16x

User Interface Size

Zoom  
- 175 % +

Set current settings as default for new plug-in instances

Set as new default

Open this User Manual

User Manual

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**Input**  
Gain 6.96 dB

Clip  
+6  
0  
-6  
-12  
-18  
dB

Saturation 18.1 %

FM Drive In

**HPF**  
Freq 26.7 Hz

Reso 15.7 %

Saturation 18.1 %

Slope 18 dB/oct

# Vertigo Sound VSE-4 Plug-In Preset Manager



**Open Preset Manager** (points to the Presets icon on the VSE-4 hardware)

**Expand Folder** (points to the right-pointing arrow icon next to a folder name)

**Create New Preset** (points to the plus sign icon next to a folder name)

**Load Preset** (points to the left-pointing arrow icon next to a preset name)

**Import Preset / Delete Folder** (points to the download and delete icons next to a folder name)

**Overwrite / Export / Delete Preset** (points to the download, upload, and delete icons next to a preset name)

**Create Empty Preset Folder** (points to the '+ New Folder' button at the bottom of the window)

The screenshot shows the 'PRESET MANAGER' window with a list of folders: 'Factory Presets', 'My Guitar Presets', and 'My Mixbus Presets'. Under 'My Guitar Presets', there are two presets: 'Crisp & Clean' and 'Smooth Drive'. Under 'My Mixbus Presets', there are two presets: 'Bass Harmonics' and 'Treble Boost'. The 'Treble Boost' preset has three icons: a download icon, an upload icon, and a delete icon. The 'Factory Presets' and 'My Guitar Presets' folders also have download and delete icons. The 'New Folder' button is located at the bottom left of the window.

# Vertigo Sound VSE-4 Plug-In

## Input Section / High Pass Filter



**Input**

Gain 0.00 dB

Clip +6 0 -6 -12 -18 dB

Saturation  In ▲

FM Drive  In ▲

**HPF**

Freq 26.4 Hz

Reso 15.7 %

Saturation 18.1 %

Slope 18 dB/oct

Input Signal Gain  
Double-click for neutral position

Filter Corner Frequency

Filter Resonance

Gyrator Saturation  
Right-click to toggle on / off

Saturation Global On / Off

FM Drive Global On / Off

Filter Slope / Order  
Right-click to toggle on / off

# Vertigo Sound VSE-4 Plug-In

## Output Section / Low Pass Filter



**LPF**

Filter Corner Frequency  
Freq 17540 Hz

Filter Resonance  
Reso 0.00 %

Gyrator Saturation  
Right-click to toggle on / off  
Saturation 16.9 %

Filter Slope / Order  
Right-click to toggle on / off  
Slope 18 dB/oct

**Output**

Output Volume  
Gain 0.00 dB  
Double-click for neutral position

**VSE-4**  
DISCRETE  
GYRATOR  
EQ

Clip  
0  
-6  
-12  
-18  
-24  
-30  
-36  
-42  
-48  
-54  
-60  
dB

Power

Toggle Global Bypass

Presets

# Vertigo Sound VSE-4 Plug-In

## EQ Bands I - IV



**Vari-Q**   **Bell**   *Select Filter Type*

**Q-Factor**  
*Double-click for neutral position*

**Center- / Cutoff-Frequency**

**Gyrator Saturation**  
*Right-click to toggle on / off*

**Toggle Bypass**

**Boost / Cut / Gain**  
*Double-click for neutral position*

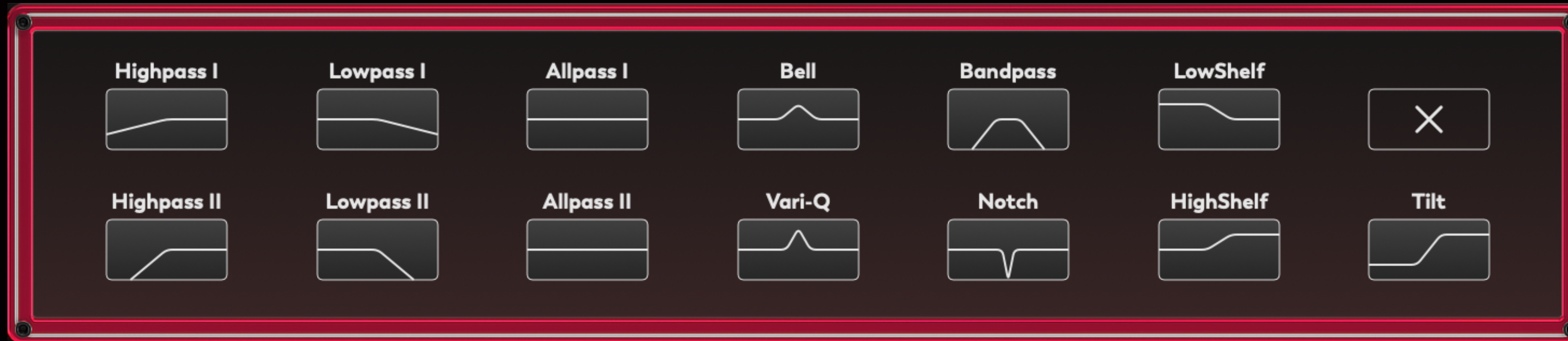
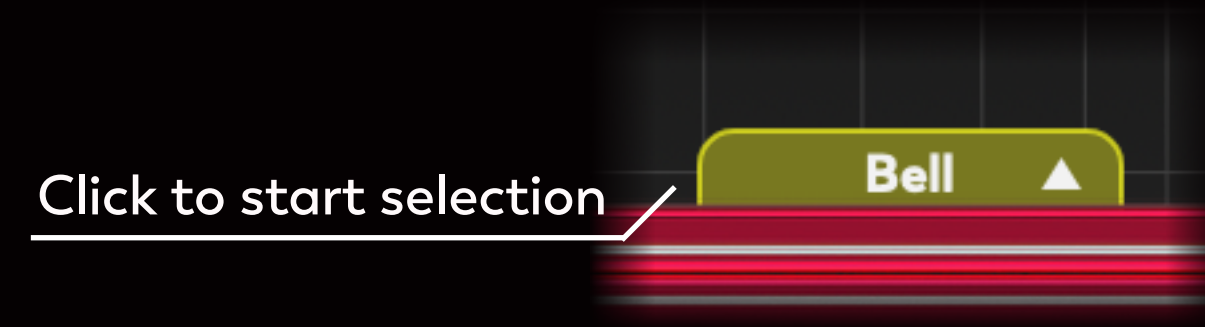
**Combined Freq + Gain XY Control**  
*Click & Drag*

**Filter Frequency Self-Modulation**  
*Right-click to toggle on / off*

Parameter	Vari-Q	Bell
Q-Factor	0.63	0.73
Gain	1.84 dB	-1.81 dB
Center / Cutoff Frequency	261.2 Hz	1858 Hz
Saturation	15.2 %	16.4 %
FM Drive	14.8 %	14.8 %

# Vertigo Sound VSE-4 Plug-In

## Filter Type Selection





# Vertigo Sound VSE-4 Plug-In

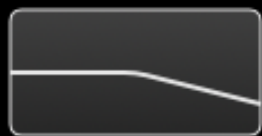
## Filter Types



Highpass I



Lowpass I



6 dB/oct Highpass / Lowpass Filter

Fixed slope first order filter

Highpass II



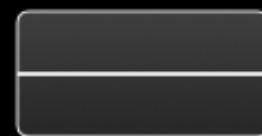
Lowpass II



12 dB/oct Highpass / Lowpass Filter

Maximum passband flatness at  $Q = 0.707$

Allpass I



Allpass II



1st / 2nd Order Allpass Filter

Saturation and FM Drive with flat frequency response

Bandpass



Notch



2nd Order Normalised Bandpass / Notch Filter

Bell



Parametric Bell Filter

Saturation and FM Drive depend on Gain setting

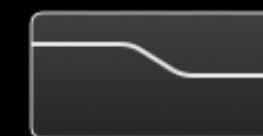
Vari-Q



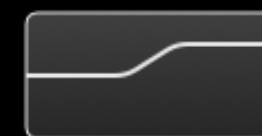
Parametric Bell Filter with Gain-dependent Q-factor

Saturation and FM Drive depend on Gain setting

LowShelf



HighShelf



LowShelf / HighShelf Filter

Saturation and FM Drive depend on Gain setting  
Maximum passband flatness at  $Q = 1$

Tilt



Tilt Filter

Combined Reciprocal Low- & HighShelf Filter

# Vertigo Sound VSE-4 Plug-In

## Overdrive Module



# Vertigo Sound VSE-4 Plug-In

## Signal Chain Order



Drag modules to change position in signal chain  
Audio signal flows from left to right hand side