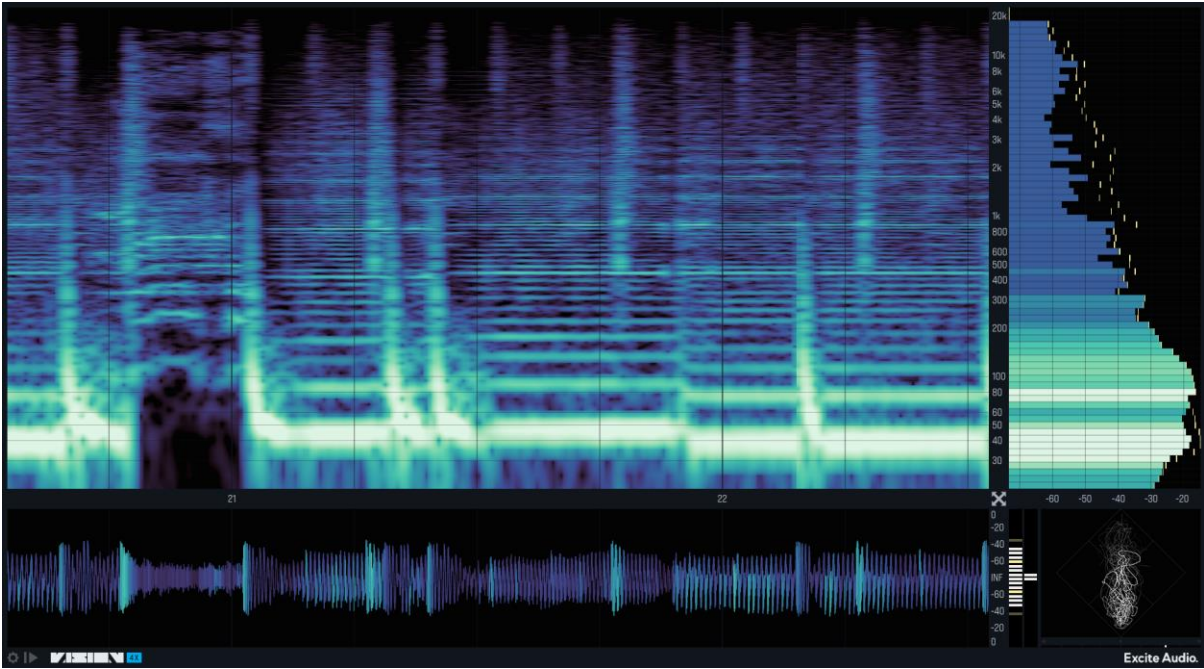
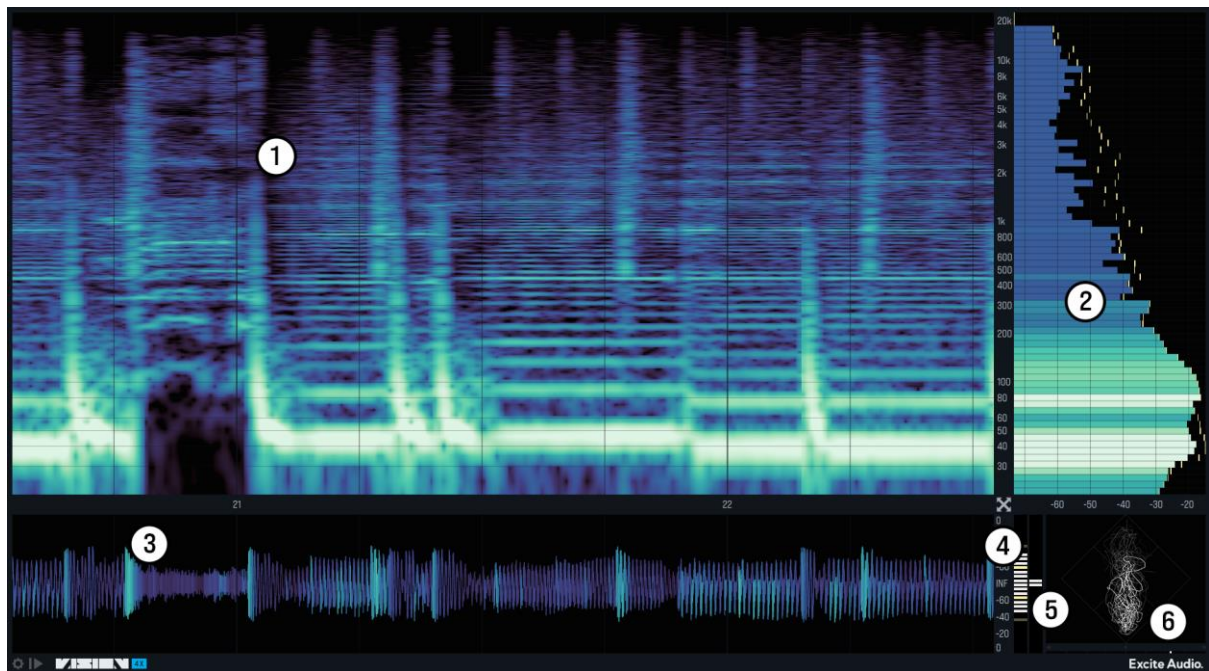


VISION 4X

USER MANUAL

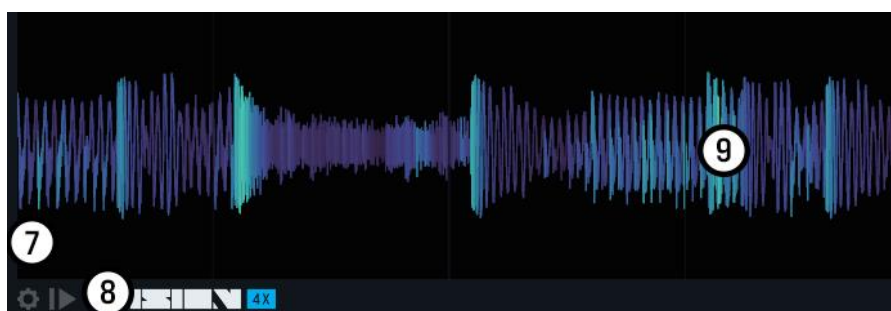


THE ANALYSERS



1. Spectrogram
2. Bar Graph
3. Waveform
4. VU Meter
5. RMS Meter
6. Phase Correlation Meter

THE CONTROLS

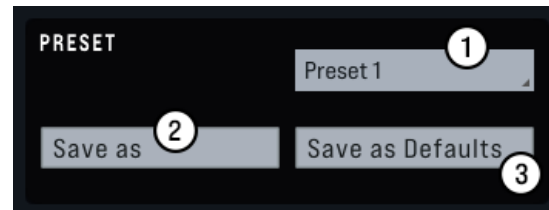


7. Click the 'Cog' in the bottom left corner to open the **Advanced Panel**.
8. Click the 'Play/Pause' button next to the cog to freeze the displays.
9. Use your mousewheel or trackpad to **zoom in** and **scroll** around the displays.

ADVANCED PANEL

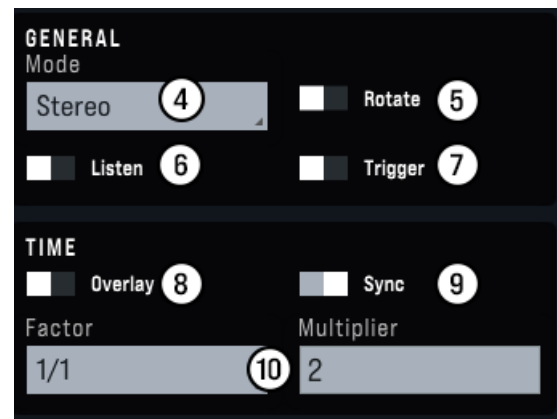
PRESET

1. **Preset Menu**
2. **Save as** – Save the current preset
3. **Save as Default** – Save the current state as the Default Preset



GENERAL

4. **Mode** - Choose the channels you'd like to analyse (Stereo, Left, Right).
5. **Listen** - Allows you to listen to the selected channel.
6. **Trigger** - Restarts the analysis whenever a MIDI signal is received.
7. **Rotate** - Rotates the position of the analysers 90' degrees - great for focusing on the Bar Graph in a more familiar view.

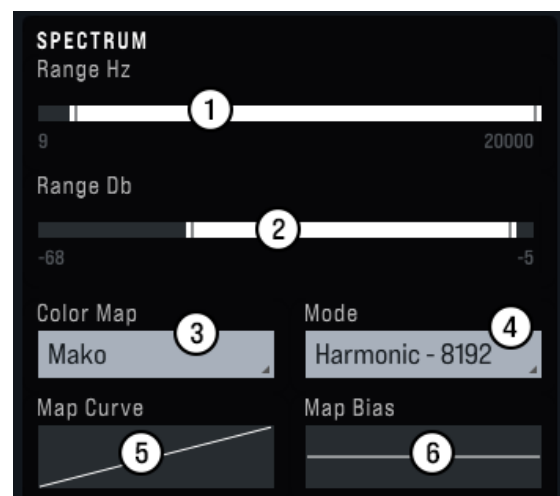


TIME

8. **Overlay** - Loops a timeframe and redraws the analysis. Turn off for 'Continuous' analysis.
9. **Sync** - Syncs VISION 4X to your DAW and will only analyse on playback in DAW.
10. **Factor/Multiplier** - Choose a timeframe with the **Factor** (i.e 1000ms or 1/4 note) and then how many you'd like to analyse with the **Multiplier**. *To set a timeframe of 4 bars, set 'Factor' to 1/1 (1 Bar) and 'Multiplier' to 4.*

SPECTRUM

1. **Range Hz** - The range of frequencies you'd like to analyse.
2. **Range dB** - The range of decibels you'd like to analyse. This can also be used to adjust the 'brightness' of the Spectrogram.
3. **Color Map** - Choose the spectrum of colours for the analysis.
4. **Mode** - Select the FFT size (used to convert audio into visual).
5. **Map Curve** - Adjusts the distribution of the Color Map across the range frequencies.
6. **Map Bias** - Biases the Color Map towards high or low frequencies.



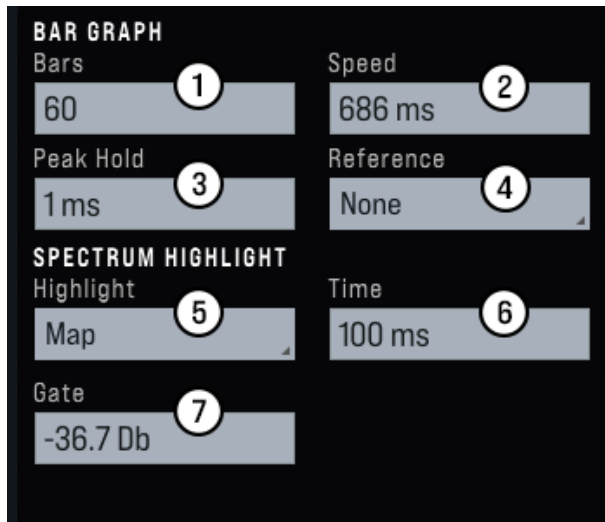
Which Mode Should I Use?

- **2048 - Transient** offers the best timing precision.
- **4098 - All-round** offers the best overall analysis.
- **8192 - Harmonic** offers the best frequency precision.

BAR GRAPH

1. **Bars** - Choose the number of Bars in the Bar Graph from 4 to a Line graph.
2. **Speed** - Speed of the bar's movement. 1ms (fast) - 2000ms (slow).
3. **Peak Hold** - How long the yellow 'Peak Markers' stay in place before falling.
4. **Reference** - Select a reference curve to compare your track with.

Tip: Reference curves have been designed for mastered tracks and the maximum values may not always be suitable for mixing.



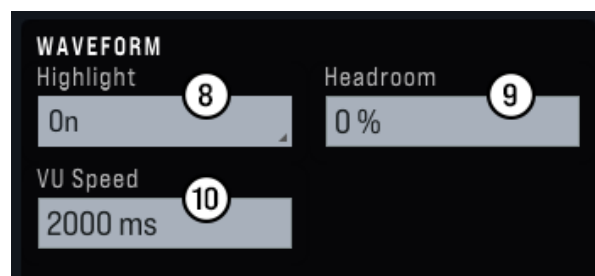
SPECTRUM HIGHLIGHT

5. **Highlight** - Shows sustained frequencies in greyscale or with the Color Map.
6. **Time** - Time that a frequency must be sustained for it to be highlighted.
7. **Gate** - Gain threshold for the frequency to exceed for it to be highlighted.

Tip: Click and drag any box to change the value or click once on the box to type in an exact value.

WAVEFORM

8. **Highlight** - Shows pitch information either in greyscale or with the colours of the Color Map.
9. **Headroom** - Scales the waveform vertically and displays a set of markers to show when your volume exceeds 0db.
10. **VU Speed** - Sets the Speed of the VU meters (to the right of the waveform).



ENJOY!