Shattered Glass Audio

Code Red Free

User Manual

Introduction

Code Red Free is inspired by a classic, all tube, British console form the late 60s. The original console was known for its EQ, bold and punchy character, and the warmth it imparted. The Beatles recorded most of their material using this, and other versions of this console. Easily recognized overdriven sound of the Beatles' Revolution was created by chaining two preamps from this console.

Shattered Glass Audio has gone to considerable lengths to find accurate information and reproduce the original EQ curves and accurately model the preamp.

Features:

- Accurately modeled original EQ with "Classic" and "Pop" modes.
- Additional EQ options in addition to the original EQ.
- High fidelity model of the original preamp based on the full circuit simulation.
- Automatic 4x oversampling.
- Stereo processing mode with linked as well as separate Left and Right channel EQ and controls.
- Selectable Mono processing mode for increased efficiency when processing mono signal.
- Dry-Wet mixing

Signal Routing

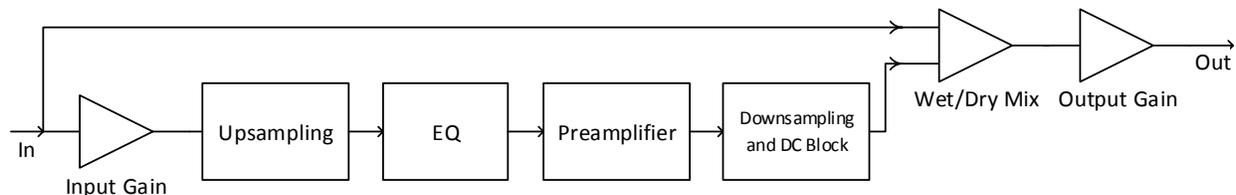Figure 1. Shows the signal path through Code Red Free.

Figure 1. Signal routing.

Using Code Red Free

At low input signal levels and low Gain settings, preamplifier in Code Red Free operates in the "clean" regime. When operated in such conditions Code Red Free can be used to enrich the original sound by adding "warmth" (additional harmonics) to it.

At high signal strengths and/or high Gain settings Code Red Free's preamp can be pushed into overdrive and distortion.

System Requirements

This plugin is available in both 32- and 64-bit VST2, VST3, and AU versions. AU version is available for Mac only.

Mac

OS X 10.8 or higher.

Windows

7/8.

Controls

Settings controlled by knobs can be changed by clicking on them and dragging the mouse up and down. Settings controlled by switches can be changed by clicking on the appropriate switch or by clicking a switch and dragging the mouse.

1. Input

Controls the strength of the input signal.

2. Bass Boost

_ engages a low-shelf boost of 10dB at 80 Hz.

| bypasses the Bass Boost.

3. CLASSIC-POP[1]

Switches between the CLASSIC and the POP EQ settings. Both, CLASSIC and POP, EQ settings have the Bass, low-shelf, set at 500 Hz and Peak filter set at 5 kHz. The CLASSIC high-shelf, treble, is set at 7 kHz, whereas the POP high-shelf is set at 3 kHz.

Code Red Free EQ is more flexible than the original EQ. The original EQ had low-shelf, Bass, boost and cut at 500 Hz for both, CLASSIC and POP, EQ types. The original CLASSIC EQ had Treble control as high-shelf boost or cut at 7 kHz. The treble control in original POP EQ had a peak boost at 5 kHz and a high-shelf cut at 3 kHz. From this we can see that EQ in Code Red Free adds a peak filter at 5 kHz to the CLASSIC EQ type. Code Red Free EQ also adds a peak cut at 5 kHz and a high-shelf boost at 5 kHz to the POP EQ type.

4. Low-Shelf (Bass)

Sets the EQ bass level from -10 to +10 dB.

5. Peaking (Mid)

Sets the EQ mid level from -10 to +10 dB.

6. High-Shelf (Treble)

Sets the EQ treble level from -10 to +10 dB.

7. Mix

Controls the wet-dry mix ratio.

8. Mode

Sets the processing mode.

M (Mono) – treats signal as dual mono. For the efficiency sake only the left channel is processed. The output is dual mono. In this processing mode EQ controls are ganged.

MS (Mid-Side) – Stereo signal is converted to mid and side component. Each component is treated separately. The output is stereo. In this processing mode EQ controls for the mid and the side component are independent. Left EQ component is used for the mid component, whereas the right EQ component is used for the side component.

ST (Stereo) – Signal is treated as stereo. The output is stereo. In this processing mode EQ controls for the left and the right channel are independent.

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[1] Shelf frequencies refer to the shelf mid point frequency.

LS (Linked Stereo) – Signal is treated as stereo. The output is stereo. In this processing mode EQ controls for the left and the right channel are ganged.

The only difference between the ST and the LS mode is that in the ST mode the EQ controls for each channel are independent, whereas in the LS mode they are ganged.

9. Output

Controls the signal level at the output of the plug-in. In the M and LS processing mode the output level controls for the left and the right channel are ganged, whereas in the ST processing mode they are independent.

10. Presets

Two buttons at the bottom of the Code Red Free window control loading and saving of presets. The longer button is used is used for loading of presets and to display the current presets name.

To load presets click on the presets name button at the bottom of the window and select the file that contains the settings you want to load.

To save current settings, click on the Save button at the bottom of the window. In the file dialog enter the file name you want to save current settings to.

11. VU Meters

Display the left and the right output channel VU levels. VU Meters are calibrated such that 0 VU = -18 dBFS.

Tips

Hover the mouse over the Shattered Glass Audio logo on the bottom of the product window to find the product version.