ENGELEN AUDIO
KORUSS
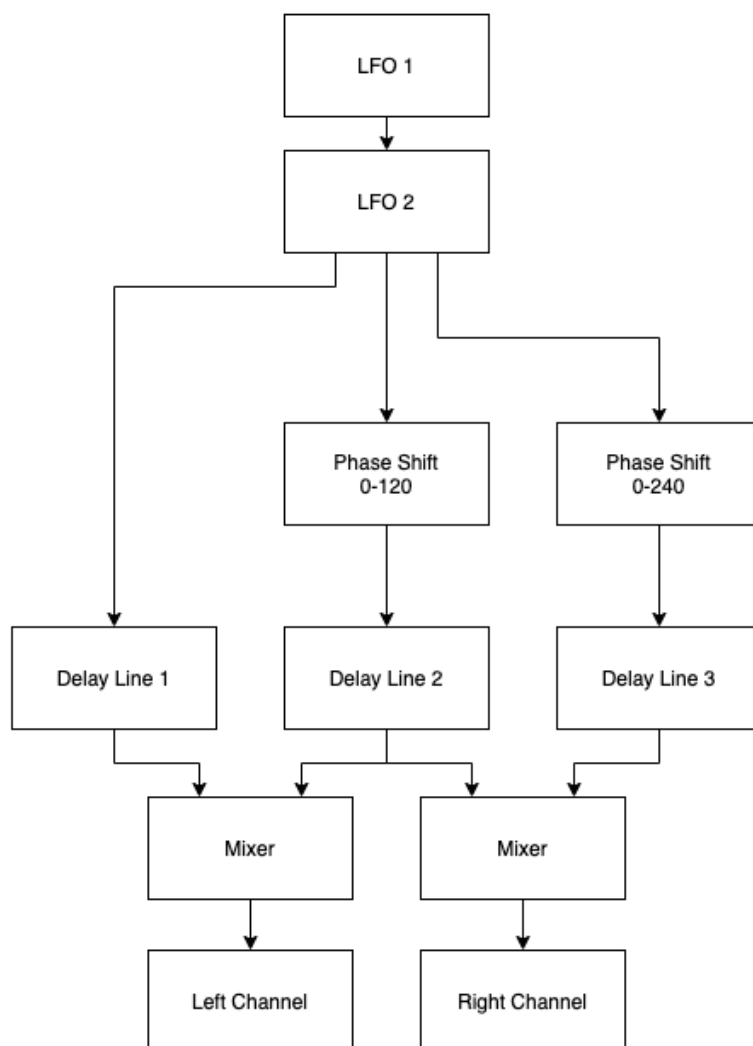## USER MANUAL

CONTENTS

Chapter 1 – Introduction

1.1 About

Thank you for downloading this plugin by Engelen Audio. This short manual will explain how to use Koruss to its fullest potential. If you have any questions regarding this plugin, feel free to email me at remi.engelen@gmail.com.

Engelen Audio is a creative and technical endeavour for audio services, and as of 2021 has started developing plugins following the completion of a Master's Degree in Audio Programming. For more information please visit www.engelen-audio.co.uk
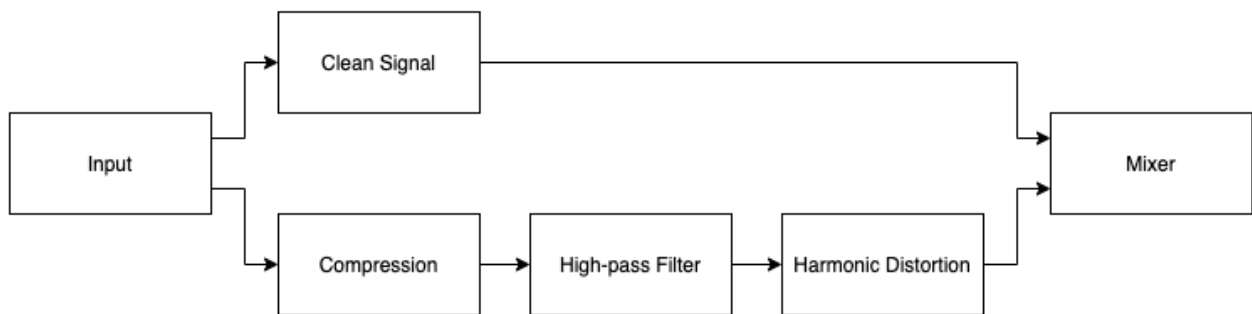
1.2 The Algorithms

Koruss is based on a few vintage models of hardware. The most notable is the model of the chorus/ensemble effect found the Eminent Solina String Ensemble.
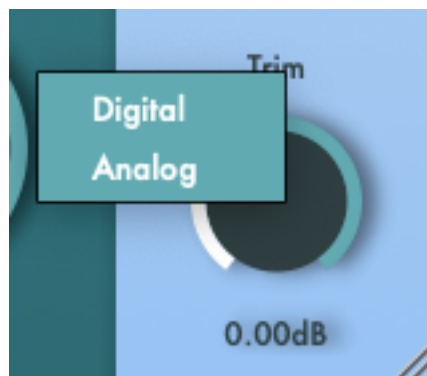
LFO 1 modulates LFO 2, creating a complex modulation, which is then phase shifted using the Phase dial. The LFO waveshapes are as followed:
• Sine
• Triangle
• Soft Pseudo-Random

The Sheen button applies the vintage exciter algorithm.

```
                    ┌─────────────────┐
              ┌────►│  Clean Signal   │──────────────────────────────────────┐
              │     └─────────────────┘                                       │
┌──────────┐  │                                                        ┌──────▼──────┐
│  Input   │──┤                                                        │    Mixer    │
└──────────┘  │                                                        └──────▲──────┘
              │   ┌─────────────┐  ┌─────────────────┐  ┌─────────────────────┐
              └──►│ Compression │─►│ High-pass Filter│─►│ Harmonic Distortion │┘
                  └─────────────┘  └─────────────────┘  └─────────────────────┘
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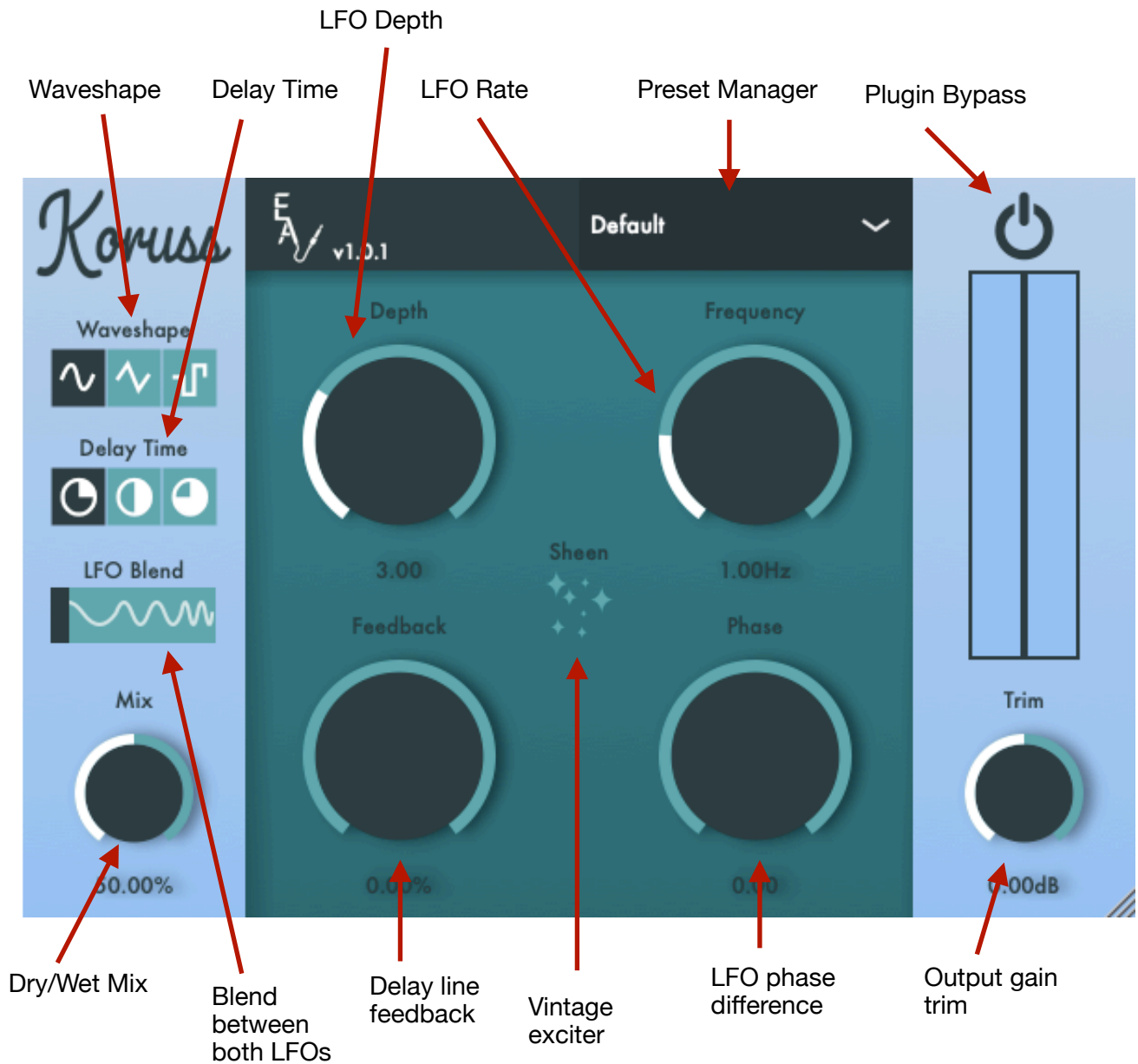
The Trim dial features a right-click option. Digital mode offers clean gain adjustments and no internal distortion when using high input levels. Analog mode applies non-linear attenuation post-Trim, causing analog-style distortion when either the input levels high or the Trim dial is turned up.

The delay times included are 5ms, 10ms, and 20ms. These options are to optimise the plugin for flange effects (requiring shorter delay times) and chorus effects (requiring longer delay times). However, not adhering to these rules can lead to interesting effects and sounds.

Chapter 2 – Interface

2.1 Interface Controls

LFO Depth

Waveshape　　Delay Time　　LFO Rate　　Preset Manager　　Plugin Bypass

Dry/Wet Mix

Blend between both LFOs

Delay line feedback

Vintage exciter

LFO phase difference

Output gain trim

2.2 Advanced Options

Koruss comes with a selection of factory presets. However, you can also save and load your own presets via the preset manager, which you must store in a location of your choice using the pop-up menu.

You can resize the plugin window using the resizing draggable in the bottom right corner.

Chapter 3 – Installation

3.1 Installation Notes

Currently, this software is unsigned and will not be recognised by Apple's security software. To bypass this, follow the instructions mentioned in the installer