

CHORUS BOX OPERATION MANUAL



BY SYNTHESCIENCE



Chorus Box Operation Manual

First of all congratulations and thank you for choosing the Chorus Box by Synthescience. We hope that you'll find this a useful plugin for your processing needs. To get the best from its features, please take some time to read this manual as it provides vital information about the plugins performance.

The Synthescience Team.

1. Introduction

Since its invention on the late seventies the chorus effect has been established as the effect to go if you need to impart some thickness and dimension into your sound.

The Chorus Box unit you have in hands will obviously do that and a little more too, thanks to the addition of extra waveforms (apart from Sine and Triangular) that are by tradition not used in regular chorus units such as Saw, Square and Random. This will translate in sparkling new sounds with a "rhythmic" edge to it, to enhance it furthermore there's a "Phase adjust" function that if tweaked will widen up your chorus sound. Also included is a "Wave invert" function to add some more flexibility to your modulations.

Please notice that the Chorus Box is intended to be used as a Stereo insert plugin, if however the plugin is inserted in a mono track it will be processed only into one side of the audio channels thus making the "Phase" function unnoticeable.

The Chorus Box is fully automatable and has the ability to store 32 presets.

It ships with a few already pre programmed ones that will show what its all about and may be the starting point to your individual creations.

Installation procedure: Unzip the file, then copy the DLL's into your VstPlugins folder.

2. Front Panel controls



The controllers in the Chorus Box may be operated in four different ways:

Circular type controls – The grey knobs like Rate, Mod, Phase-R and Mix.

Vertical type controls – Beat Division (active when Sync switch is on)

Toggle controls – On/Off switch, Sync switch, Wave Invert and Wave selector switch

Click controls (only active while clicked) – The effects nameplate which shows additional information about the plugin (like plugin version and credits).

Description of controls

On - Switches the effect on when highlighted in red or off when is not.

Rate - Sets the modulation rate of the chorus effect from slow to fast (Between 0.017 Hz to 5 Hz or 1 to 300 Bpm).

Led - Reacts or blinks accordingly to the set rate velocity.

Sync switch – Syncs the beat of the Chorus Box to the host set tempo

Beat Division – When Sync switch is on the Speed knob is replaced by this control which allows for the Host tempo to be divided or multiplied in values ranging from T:32 (very slow) to TX16 (very fast).

Here's the values that can be selected:

(T stands for Time) T:32, 16, 8, 7, 6, 5, 4, 3, 2, 1.5, 1 ; TX1.5, 2, 3, 4, 5, 6, 7, 8, 16

Here's a picture of the Beat Division display, notice the Sync switch on.



Description of controls (continued)

Mod - Controls the Modulation depth or intensity of the chorus effect from 0 (none) To 10 (full modulation). Set this to 0 if you want a doubling effect.

(When modulation is set higher than 5 with sine or triangular wave selected, you may notice that the modulation beat is doubled, for example if set to 60bpm it may sound like its set at 120bpm. This is due to how the sine and triangular waveform amplitudes behaves in the effects core. A nice side effect to that are the thick sounds obtained. It is intentional and makes part of the effects character, however it is less noticeable if you set the modulation knob below 5)

Phase-R – The Phase-R knob adjusts the phase relationship of the modulation signal of the right channel chorus stage against the left channel chorus stage, ranging from 0 to 180 degrees of phase difference. It provides a controllable “spread” over the effect. Use it sparingly if you wish the effect to be subtle or crank it up if you wish for a more dramatic spread effect. * (It’s important to know that if you use the Chorus Box in a mono track you won’t be able to notice this function at all).

Mix - Adjusts the balance between the unprocessed and processed sound or in other words the dry/wet balance, ranging from 0 (only the dry signal is heard) to 10 (The dry and wet signals are mixed in equal proportions i.e. 50/50)

Wave selector - By clicking in the waveform box is possible to select 5 different modulation waveforms like: Sine, Triangular, Saw, Square and Random. The first two, Sine and Triangular are traditionally used ever since on chorus units and are the ones best suited to achieve the classic chorused sound. The other three (Saw, Square and Random) are more pronounced waveforms and have a totally different effect in the overall chorus sound. (For example it can turn the Chorus unit into a more "Rhythmical" sort of effect).

Wave invert - Clicking this switch inverts the modulation waveform phase (and the overall chorus sound too).

(About Box) - By clicking and holding the mouse arrow over the effect nameplate shows additional information about the plugin (like plugin version and credits).

3. Midi Controllers

(There is a total of 9 different midi controllers assigned to The Chorus Box plugin as shown in the below box.)

Chorus Box Midi Controller List
10 Effect on/off
11 Rate
12 Sync to Host sw
13 Beat Division (Sync Subdivision Factor)
14 Modulation
15 Phase-R (spread function)
16 Mix
17 Waveform selector
18 Waveform invert sw

4. Credits and Acknowledgement

Manual by Synthescience

Graphics and Programming by Synthescience

This plugin uses software modules by Lance Putnam.

Synthescience products are developed with SynthEdit development system

By Jeff McClintock.

Vst Plugin Technology by Steinberg Media Technologies AG.

