TRI STEREO CHORUS

Softube

DYTRONICS

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Softube User Manual

Acknowledgements and Licenses

Disclaimer

Every effort has been made to ensure that the information in this manual is accurate. However, there is a chance that we have made mistakes, and we hope that you understand that we are only humans. Please let us know about the mistake, and we'll fix it in the mix (or in the next version of this manual).

Support

On the Softube website (`www.softube.com`) you will find answers to common questions (FAQ) and other topics that might interest you.

Support questions can be posted at `http://www.softube.com`, where we will help you as fast as we can!

Web: `www.softube.com`
E-mail: `info@softube.com`
Phone: +46 13 21 1623 (9 am – 5 pm CET)

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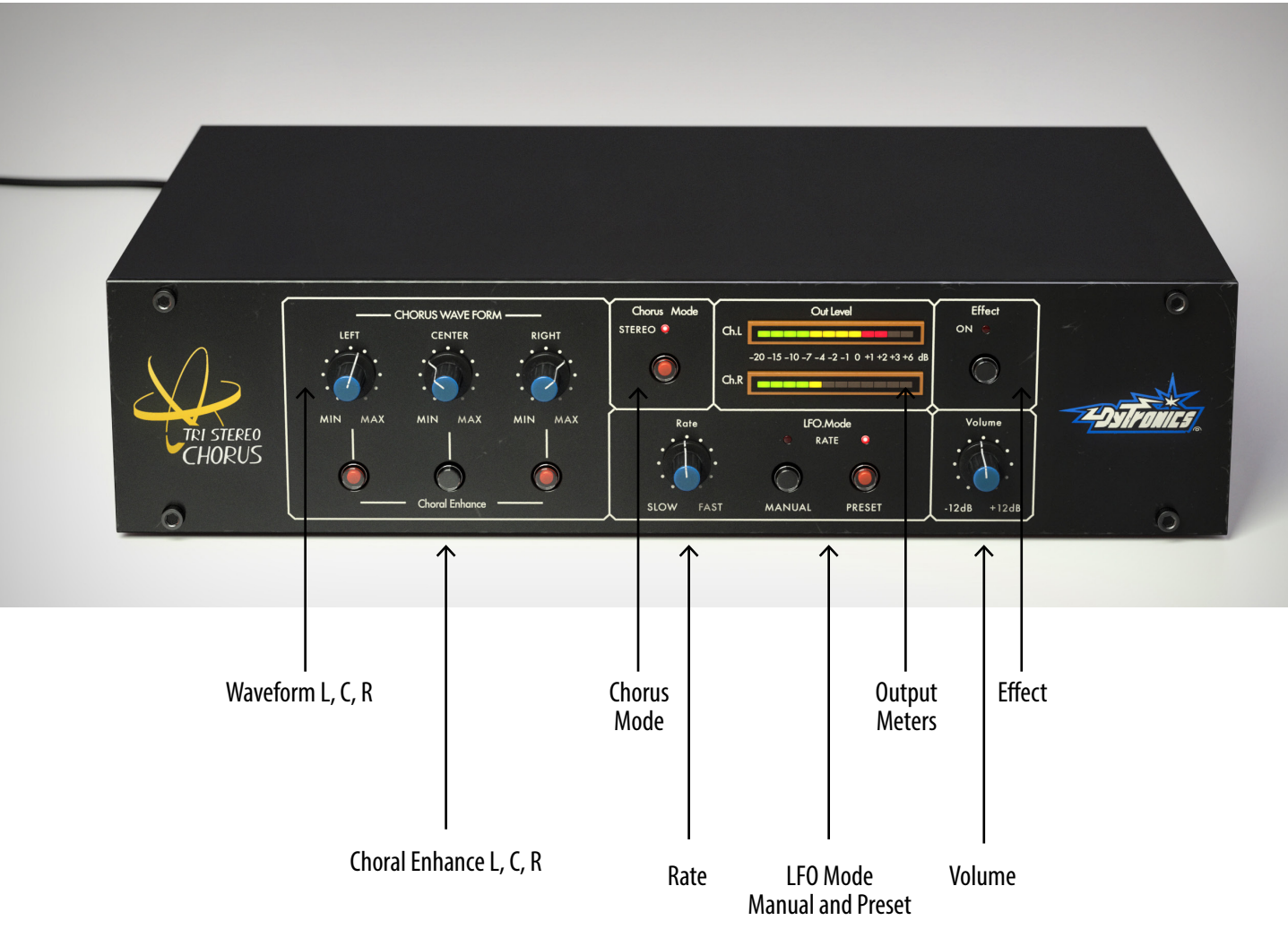
1 Dytronics Tri Stereo Chorus

The UAD Dytronics Tri Stereo Chorus is based on a much sought after rack-mounted chorus effects unit from the early 80s. Originally designed for use with Dyna-My-Piano modded Rhodes pianos, the Tri Stereo Chorus soon became a favorite of professional guitarists for its lush and thick sound. The lush sound of the Dytronics Tri Stereo Chorus became the signature sound of Michael Landau as used on his tour de force album Tales from the Bulge. But of course the Dytronics was also heavily used by other LA studio guitarists such as Steve Lukather and Dann Huff. The Dytronics Chorus can be heard on productions from such prominent artists as Chaka Khan, Sheena Easton, Julio Iglesias, Stevie Nicks and Richard Marx among many others, making it THE analog guitar chorus of the 80s.

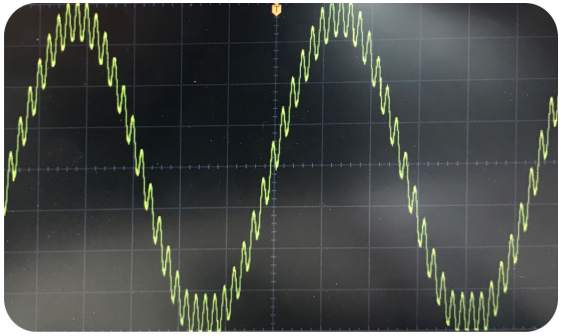
Overview

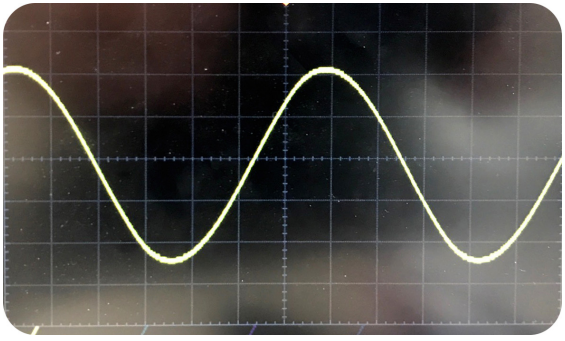
The UAD Dytronics Tri Stereo Chorus (DTSC) is based on the holy grail of choruses, the Dytronics CS-5 Tri Stereo Chorus, also available as Songbird TSC1380 and Dyno-My-Piano TSC618. As the "Tri" part of the name indicates, the DTSC features three bucket brigade delay channels to achieve its lush chorus effect, Left (L), Center (C) and Right (R). The delays in each of these three channels are swept back and forth by an LFO (low frequency oscillator), and then mixed with the dry signal to create the chorus effect. Each delay channel has its own controls for delay response and feedback. DTSC features two main modes, Preset and Manual; each of which have its own LFO waveform output and can be run separately, or in parallel.



Preset Mode

The Preset mode has a slowly sweeping sine LFO with a swifter added sine "vibrato" part. The rate and amount of this waveform is static, thus the name Preset. The resulting sound is a chorus reminiscent of many "ensemble" style choruses heard in 70s string machines.





Manual Mode

In Manual mode, the sine LFO rate and amount can be adjusted with the Rate and Waveform knobs. The rate of the manual LFO ranges from 0.03 Hz to 7.45 Hz.

Tip: The Preset and Manual modes can be used simultaneously to create new exciting chorus variations.

Parameters

Effect - Activate/bypasses the effect.

Chorus Mode - Determines audio output mode: Mono or Stereo. In Mono mode, Left, Center and Right delay channels are all heard in both left and right outputs. In Stereo mode, the Left and Center delay channels are heard in left output, while the Center and Right delay channels are heard in the right output.

LFO Mode Preset – Activates/deactivates Preset LFO. Both LFOs (Preset and Manual) can be engaged at the same time and their combined output will affect the delay channel's sweep.

LFO Mode Manual – Activates/deactivates Manual LFO. Both LFOs (Preset and Manual) can be engaged at the same time and their combined output will affect the delay channel's sweep.

Waveform L, C, R – In LFO Manual mode, the Waveform knobs set the amount which the Manual LFO will sweep the delay lines in each channel. When Manual LFO is not engaged these knobs will still affect the delay offsets of the in the channels. This is heard momentarily as a slight "bend" when a knob is turned while audio is fed through the chorus.

Choral Enhance L, C, R – When engaged, these buttons add an enhanced frequency response in the delay channel selected. This changes the sound of that delay line and makes it slightly more pronounced.

Rate – Determines the speed of the Manual LFO, ranging from 0.03 Hz to 7.45 Hz.

Volume – This knob will set the overall output volume of the DTSC ranging from -12 dB to +12 dB.

> **Tip:** Shift-clicking on a Waveform knob can be used to change all three knobs simultaneously. The same technique can be used on the Choral Enhance buttons to add choral enhancement on all three delay channels.

Indicators

Output Meters
Indicate the overall output level

In Use/Tips & Tricks

Using the Dytronics Tri Stereo Chorus is rather straightforward, and there aren't many secret tricks when it comes to using it—more or less anything you do with the DTSC will sound great.

With that said, try using the DTSC Preset mode without Choral Enhance on **guitars in stereo** to capture that **classic 80s sound**.

By engaging Choral Enhance on one or multiple delay channels, the **chorus will get more pronounced and "flangey"**.

Try experimenting with the Waveform knob in Manual mode to decide whether the chorus movement will be focused in the middle or on the sides. Here's an example where a "flangey" chorus has a **deeper sweep on the sides**:

You can also try using the DTSC Preset mode in combination with a quite fast manual LFO to create a **ensemble chorus effect similar to that of a 70s string machine**.

Selecting no LFO at all (both Manual and Preset modes deactivated) and engaging the Choral Enhance on one or multiple delay channel can also be used to create "frozen" phase EQ settings. Keeping both LFO modes turned off, use the Waveform knobs to sweep the delay offset of each delay line to **enhance certain frequencies**.

Final Words

Experiment is the key, there's no right or wrong; if it sounds good for you, trust that it IS good. Enjoy!

Credits

Björn Rödseth – modeling, **Kim Larsson** – modeling, **Kristofer Ulfves** – product owner, user manual, testing, presets, **Maxus Widarson** – testing, **Igor Miná** – graphic design and photography, **Ulf Ekelöf** – 3D rendering.

2 General Settings

SOFTUBE PLUG-INS ARE "what you see is what you get" products. You should be able to intuitively learn the products within minutes, so that you can work fast and efficient with them. There are a couple of things that remain the same for all of our plug-ins, such as the menu row. These will be explained in this chapter. For detailed information of a particular plug-in, please see its chapter.

Menu Row

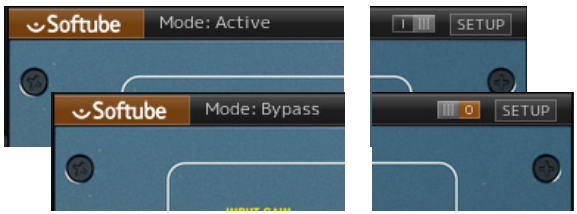
In the bottom of the plug-in interface, you will see a thin black row with some buttons. We'll use the Chandler Limiter Zener Limiter plug-in as an example, but the same goes for all Softube plug-ins.

About Box Opens the "About" Box with version info.

Value Display Displays the knob value when the mouse is hovering over a control.

Enable Enable/Activate the plug-in. Set to OFF for bypass.

Setup Changes global options for all instances of that plug-in.



Enable

When the **Enable** switch is set to ON (I), the plug-in is active and will process audio. When set to OFF (0), it will be bypassed and not process any audio.

Setup

In the Setup window you can change settings that will affect all instances of that particular plug-in. If you, for example, de-select the "Show Value Display" option in the plug-in, the value display will be off for all instances of that plug-in on your system until you select that option again.

The different options vary between Windows and Mac, and also different formats and plug-ins. The most common options are:

SHOW VALUE DISPLAY: Enables the parameter and value display in the bottom row of the plug-in.

REVERSE MOUSE WHEEL DIRECTION: (Mac OS Only) Changes if the a knob is turned up or down when the mouse wheel is turned up or down. *(Mac OS Only)*

> You need to restart your host software (DAW) for the changes to fully take effect!

If you messed something up and manually need to set these options, you'll find them in text format in the following locations:

MAC OS: `~/Library/Application Support/Softube`

WINDOWS: `username\Application Data\`

Key Commands

All numbers and labels in the plug-in are clickable. This allows you to easily select a setting by clicking on the wanted value. Hovering above a label will turn the mouse pointer into a pointing hand.

Mouse

Up/Down or Mouse Wheel	Change a parameter, such as a knob or a switch.

Keyboard

Fine Adjust	⌘ (Mac) or CTRL (Win), while changing the parameter value.
Reset to Default	ALT, while clicking on the knob or fader.
Link Parameters	SHIFT, while clicking on a button or a knob. Some plug-ins have linked parameters, such as the two mics in Metal Amp Room, or the Input and Output volume in Zener Limiter. In order to change both knobs at once, adjust one of the knobs while holding SHIFT.

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Softube AB, S:t Larsgatan 9D, 582 24 Linköping, Sweden. www.softube.com