Mikron Chorus Manual

112dB

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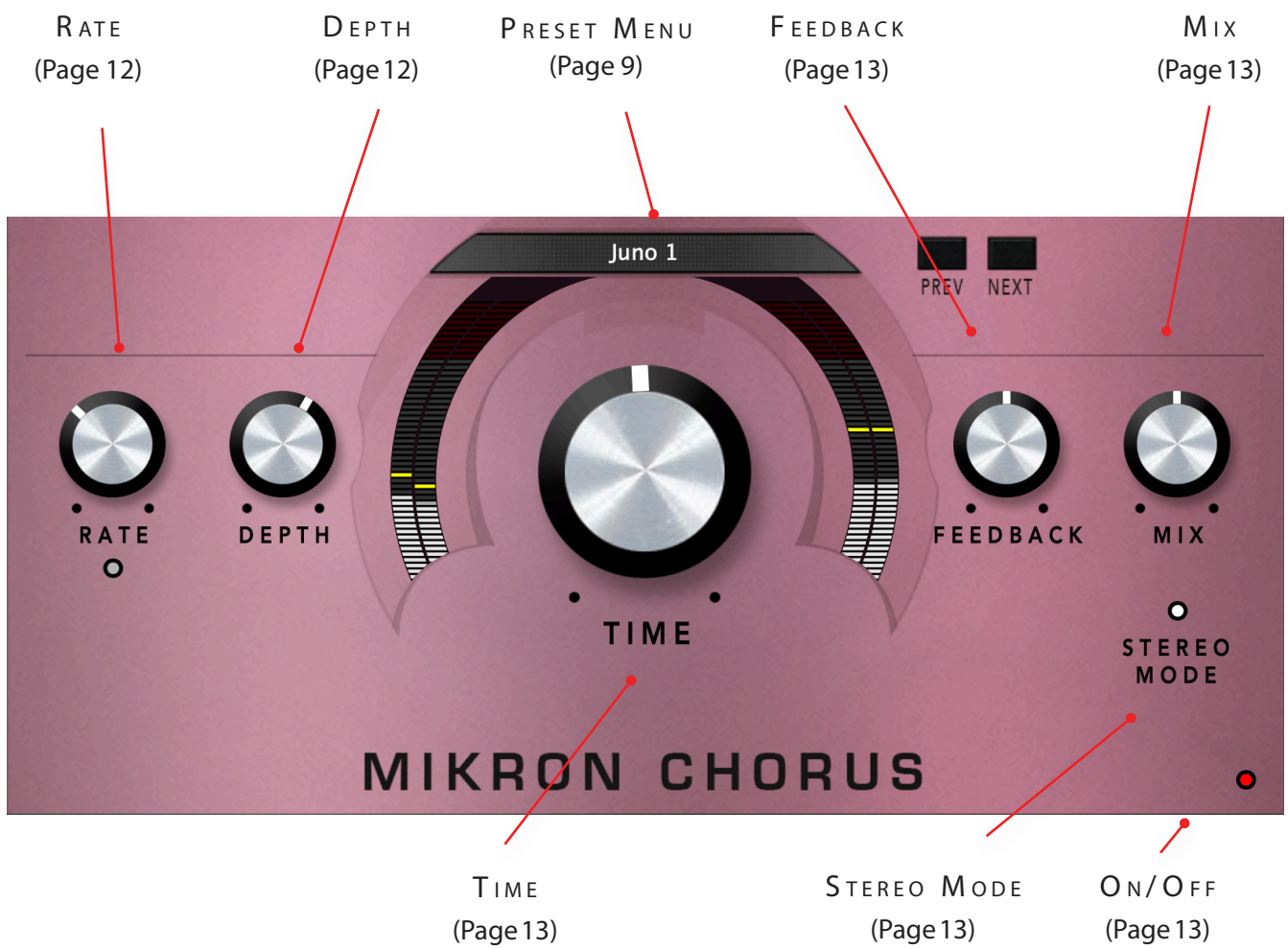
INTRODUCING...

Mikron Chorus was inspired by the Juno chorus, the chorus effect found in the Roland Juno synthesizer as well as the Boss/Roland chorus pedals from the 70'ies. It has the same signal routing as the Roland/Boss CE2, and the spectral characteristics of its bucket brigade delay chips, but without the noise that always accompanies bucket brigade delays.

Mikron Chorus has the same ease of use as the pedals it was modeled after, with just a few extra features that we thought that might come in handy. Where the CE2 only had adjustable rate and depth. Mikron Chorus adds adjustable delay time and mix. This gives you not only more flexibility, but it makes it also possible to use Mikron Chorus as a flanger by dialing in shorter delay times, and adding feedback. Last, but not least there is the stereo mode that you can use to give the chorus extra spaciousness.

THE MIKRON SERIES

The 112dB Mikron series is all about simplicity. We believe that too many features can stand in the way of the creative process. Simply said: more features also means more tweaking and having to delve into all kind of technical details. And that often distracts you from what it's al about: creating music. You really don't need that many knobs to get a great sound. The effect pedals for guitars are a perfect example of this. Their limited functionality is more than compensated by their fun to use. Or do you really believe that Jimi Hendrix and Kurt Cobain would have made better music if they just had these few extra knobs on their stompboxes? Limitations often inspire creativity instead of blocking it.

INSTALLATION

A. DOWNLOADING THE LATEST INSTALLER

To make sure you are running the latest version of Mikron Chorus please visit our Product Updates page at www.112dB.com/download/mikron/chorus and download the latest installer for your operating system. (If you already have a demo with the same version number installed you may skip this step and continue to C. Authorizing the plugin below.)

B. PLUGIN INSTALLATION

Mikron Chorus comes in the form of a single installer for all available plugin formats: VST3, AAX, and Audio Units.

MAC OSX

1. Double click the Mikron Chorus Installer. pkg file to start the installer. If everything goes as expected, you will now see the welcome screen shown on the right.

2. You might want to have a quick look at the readme, as it may contain important last-minute information that was not available at the time of writing.

3. You will be asked to agree to the terms of the license agreement.

4. The installer installs all plugin formats (VST3, AAX, and Audio Units) by default.

5.. You will be prompted for your Mac password to complete the installation.

6. If the installer detects you haven't activated your license yet, the 112dB License Manager will be started.
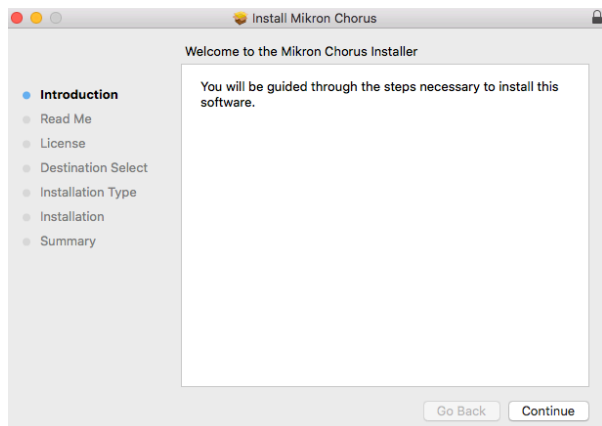
WINDOWS

1. Double click the Mikron Chorus Installer.exe file to run the setup program.

Windows might give you the following warning: 'Microsoft Defender SmartScreen prevented an unrecognized app from starting. Running this app might put your PC at risk'
No need to worry, this simply means that the installer is too new to be recognized by Microsoft Defender yet. We can assure you that we're not in the habit of putting malware in our plugins, so if you downloaded the installer from our website, you can safely ignore this. Click on 'More info'. Make sure that 112dB is mentioned as Publisher. Then click 'Run Anyway'.
Depending on your system settings, you now might get another message: 'Do you want to allow this app to make changes to your device?' Click 'yes' to continue with the installation.
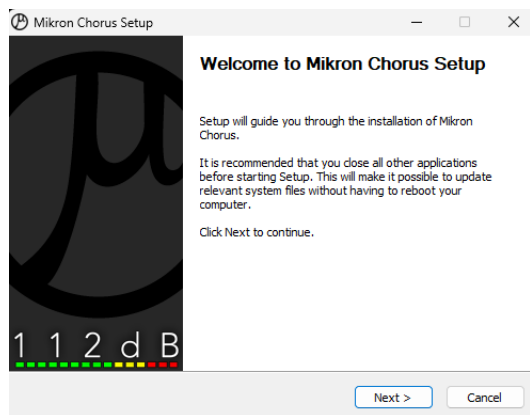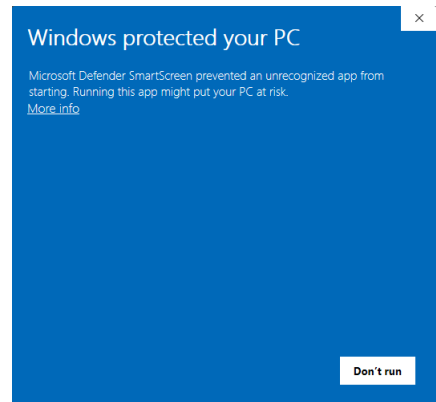
2. If everything goes as expected, you will now see the welcome screen shown on the left.

3. In the next step you will be asked to agree to the terms of the license agreement.

4. The installer installs all plugin formats (VST3 and AAX) by default.

5. When Mikron Chorus has been installed, Setup

is complete and you may click the Finish button. By default 'Start the 112dB License Manager' will be selected. Keep it selected if you haven't activated your license yet, and want to activate it now. If you already have a license installed, you can deselect it.

6. You might want to have a quick look at the readme, that was installed in \Program Files\112dB\Mikron Chorus, as it may contain important last-minute information that was not available at the time of writing.
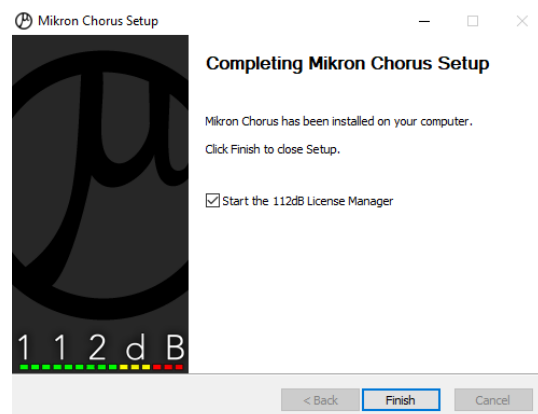
C. Authorizing the plugin

With your purchase or demo download you should have received an email containing a license file (in the form of an XML-document). Save this file to your computer.

The 112dB License Manager will be started automatically after the installation is finished. Drag and drop your license file on the License Manager window. Or alternatively click on 'locate license...', navigate to the folder where you saved the license file, select it, and click 'Open'. You can decide to skip this step, and activate your license later from within the plugin.
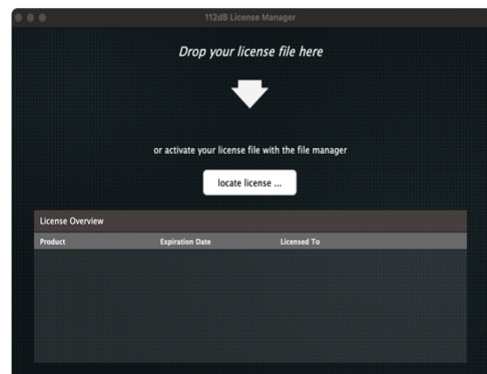
from demo to permanent license

To replace a demo license with a permanent license, first save the permanent XML license from your purchase confirmation email to your computer. Open the 112dB License Manager (see 'Where can I find the License Manager?' below). Drag and drop your license file on the license manager window to activate Mikron Chorus. Or alternatively, click on 'locate license...', navigate to the folder where you saved the license file, select it, and click 'Open'. In your License Overview you will now see 'perpetual' instead of a specific expiry date for Mikron Chorus under 'Expiration Date'.

where can i find the license manager?

The 112dB License Manager can be found here:

Windows: \Program Files\112dB

Mac: /Applications/112dB

troubleshooting

Some email clients do not like plain text attachments. For this reason the license is attached in both text (.xml) and zipped (.zip) formats. If you receive an error message saying that the 112dB Mikron Chorus .xml license is invalid or corrupt, the most likely cause is that it got corrupted during email transfer. In this case please save the 112dB Mikron Chorus License.zip attachment to your computer instead, unzip the file (this will produce a 112dB Mikron Chorus License .xml file) and try authorizing again.

support

If you encounter any problems during the installation or authorization process, please contact us by email at support@112dB.com.

Installing on multiple computers

The license file you received is not tied to a specific computer, only to a specific person. You can use the same license file to authorize the plugin on any system, as long as it is yours. This way you can install and use the plugin on your studio setup, your home computer, and your travel notebook at the same time.

Uninstalling

The uninstaller for Mikron Chorus can be found here:

Mac: /Applications/112dB/Mikron Chorus
Windows: \Program Files\112dB\Mikron Chorus

In addition the uninstaller will be listed on Windows under Control Panel » Add/Remove Programs.

Installation locations

Factory presets:

Mac: /Library/Application Support /112dB/Mikron Chorus
Windows: \Program Data\112dB\112dB\Mikron Chorus

User presets:

Mac: /Documents/112dB/Mikron Chorus/User Presets
Windows: \Documents\112dB\Mikron Chorus\User Presets

License Manager:

Mac: /Applications/112dB
Windows: \Program Files\112dB

VST3-plugin:

Mac: /Library/Audio/Plug-Ins/VST3
Windows: \Program Files\Common Files\VST3

AAX-plugin:

Mac: /Library/Application Support /Avid/Audio/Plug-Ins
Windows: \Program Files\ Common Files\Avid\Audio\Plug-Ins

AU-plugin:

Mac: /Library/Audio/Plug-Ins/Components

Manual

The manual for Mikron Chorus can be downloaded from our website:

https://www.112db.com/plugins/mikron/chorus/help/Manual.pdf

The Mikron Chorus user interface has been designed to be as intuitive and easy to operate as possible. There are functions that might not be immediately obvious, however, and could use some explanation.:

RESIZE

To change the size of the GUI, you can drag at the corner of the plugin window, but you can also right (cmd)-click anywhere on the plugin interface and select your size of choice in the pop-up window that will appear.

TOOLTIPS

Hovering over any item of the interface brings up a floating tooltip window with a brief description of that control's function. If you want to disable this function, right (cmd)-click anywhere on the plugin interface and deselect 'Show tooltips' in the pop-up window that will appear.
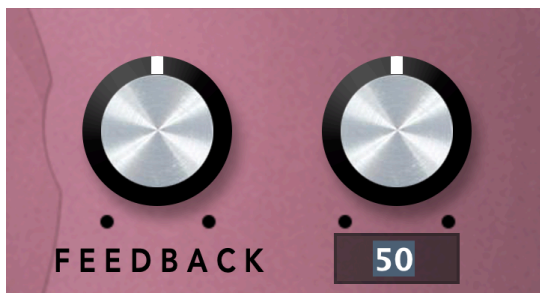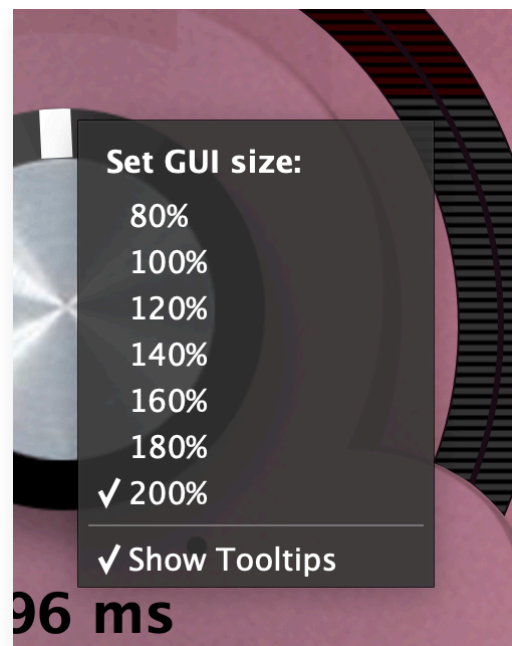
NUMERICAL ENTRY

Turning a knob or hovering over it will change the name below the knob into it's value. Clicking on this number will open a small edit window that allows you to change this value by typing in a new one To dispose of the edit window either hit <Enter> or click anywhere outside it.

RESET TO DEFAULT VALUE

<Ctrl>-clicking knobs and sliders will reset them to their default value.

FINETUNE

Cmnd-click-drag makes very small moves with the knob possible.

MIDI AUTOMATION

All knobs can be controlled by an external MIDI keyboard or MIDI controller. To assign a MIDI control simply right- (cmd-)click on the knob you want to connect and and a window will pop up: 'Start MIDI learn'.

Click on this window, and move the control on your external MIDI keyboard or controller that you want to assign to this knob. If everything goes as expected, you will now see the knob moving when you move the control on your MIDI keyboard. Right-click (ctrl-click) on the control again and click 'Stop MIDI learn'. Do you want to detach the knob again? Right (ctrl)-click on the knob, and choose: 'Detach from midi automation'
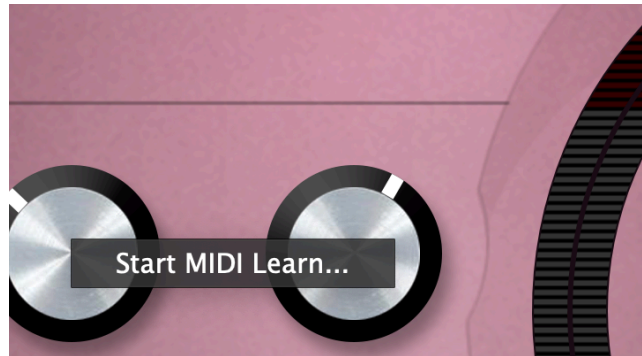
Mikron Chorus comes with a set of carefully selected factory presets, and of course, there is an option to add your own presets as well. The name of the currently selected preset is displayed in the preset display at the top of the plugin.

For quick access to presets there's the preset menu: a drop-down list of presets you can scroll through. Clicking on the preset name will open up a menu. At the top of it you will find two items: Factory Presets, and User Presets. Factory Presets contains the presets that come with the plugin. They can't be altered. Under User Presets you will find the presets that you added yourself. Those you can change in any way you like.

Clicking on 'User Presets' or ' Factory Presets' brings up a complete list of currently loaded presets, optionally organized by category, from which you can select a new preset. The currently selected preset is shown with a a checkmark (√) in front of it, as are the category folders in which it resides.

Alternatively you can use the prev/next buttons next to the preset menu to move one preset up or down

Creating a preset

So you found a great new setting that you want to save as a preset. Use 'save' to save it under the current name (the name that is shown in the display). 'Save as' gives you the option to choose a different name and/or a different location for your preset.

Organizing presets

Clicking on 'Show User Preset Folder' will open a file manager window of your computer. If you want to delete a preset or change its name, you can do it here. You can also add subfolders, or anything else you would do in the file manager. After you are done select 'Rescan Presets' from the drop down menu to see you changes reflected in the menu.

Load

This enables you to load presets from a different location than your User Preset Folder.

Set as default

This sets the current preset as the default preset Mikron Chorus will start up with.

Exchanging Presets

You created a preset on another computer or want to use some presets that someone else made? No problem. The only thing you need to do is to save these preset(s) in the User Presets folder on your computer. If you haven't changed the location of this folder, it can be found in /Documents/112dB/Mikron Chorus

Or if you just want to have a quick look at a preset, use 'Load' in the preset menu, go to the place where you saved your presets, select a preset, and click 'open'. Note that you have to save this preset to your User Presets if you want it to show up in the preset menu .

THE KNOBS

Despite its name Mikron Chorus is as much a chorus as a flanger. To understand what the knobs of Mikron Chorus do, and how you can use the plugin to its full potential, it is good to know a little about how a chorus and a flanger work and what the difference is between the two.

A chorus effect combines a clean tone with one or more slightly delayed duplicate signals (in case of the Mikron Chorus two) that are modulated by an LFO. The result is that the modulated signal seems to moves towards, and away from you. This will make the modulated signal slightly different in pitch thanks to the Doppler effect. The slight pitch and time difference between the original and the duplicate(s) create the illusion of multiple instruments playing simultaneously. Although a flanger works basically the same, the modulated signal usually doesn't move fast enough for a pitch shift to occur. You will only hear a slight resonance. The main difference however, is the feedback. Adding feedback will turn this resonance into the sweeping effect we associate with a flanger.

RATE (0Hz-10Hz)

Sets the modulation rate: the speed of the LFO that modulates the delay time of the duplicate signal.

DEPTH (0-100%)

Sets the modulation depth, or the strength of the effect. It is the amount with which the delay time varies. Depth is dependent on the time you set. If you put the Time-knob on 5 milliseconds and Depth on 100 %, the delay time will go back and forth between 0 and 10 milliseconds. Putting Depth on 50% means that the signal will go back and forth between 2,5 en 7,5 milliseconds. With a Depth of 0 % the duplicate signals will have a delay of 5 milliseconds (no modulation).
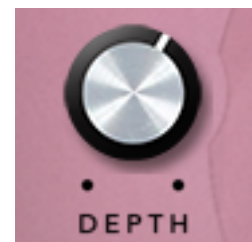
TIME (0-25 MS)

Sets the delay time. Use longer delay times for a chorus effect. How long exactly will depend on which rate and depth you chose. The higher the rate and depth, the shorter the delay time needs to be.

FEEDBACK (-100% - +100%)

Sets the amount of feedback to create a flanging effect. The output will be fed back in the input. Negative feedback means the inverted signal will be fed back in the input.
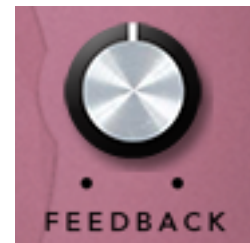
MIX (0 -100%)

Allows you to mix between a dry and a wet signal.

STEREO MODE

When set to stereo, modulation of the left and the right signal is out of phase. This gives the illusion of spaciousness. In general, stereo mode isn't recommended when using Mikron Chorus as a flanger.

ON/OFF

Gives you an easy way to bypass Mikron Chorus. When the light is on, the effect is applied to the signal. When it is off, the effect is disabled.

S Y S T E M   R E Q U I R E M E N T S

O PERATING   S YSTEM

- Windows 10 or up
- Mac Os X (Intel or Apple Silicon): 10.11 (El Capitan), and up

H OSTS

Mikron Chorus is compatible with any host that understands the AAX, VST3, and/or Audio Units protocol.

U PDATES   AND   S UPPORT

Updates will be made available at

www/112dB.com/download/mikron/chorus

For product support, questions, comments, feature suggestions, and anything you feel is worth sharing, please contact our support staff by email at

support@112dB.com

CREDITS

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AVIR image resizing algorithm designed by Aleksey Vaneev

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Special shouts to our dedicated beta testers
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