

# //ErgoVerb User Manual//

Plugin by Ergo Kukke



Version 1.0.0

Format: VST3 audio effect

Operating System: Windows

## ## Overview

ErgoVerb is an experimental sound modulation tool for composers and sound designers looking for alien sounding atmospheres or SFX.

Signal flow:

Input -> Delay -> Chorus -> EQ -> Reverb -> Stereo Width -> Master Volume / Clip

ErgoVerb supports mono and stereo tracks. Its maximum tail length is 64 seconds, so long reverb settings can continue ringing after audio input stops.

## ## Installation

To use the plugin in a DAW, place or copy ``ErgoVerb.vst3`` into a VST3 folder scanned by the DAW. A common Windows VST3 folder is:

``C:\Program Files\Common Files\VST3``

After installing, rescan plugins.

## ## Interface

The top area contains preset controls:

- Preset selector: chooses saved presets.
- Previous / Next: steps through presets.
- Save: saves the current settings as a preset.
- Folder: opens the preset folder.

The main controls are grouped into Delay, Chorus, EQ, Reverb, and Master sections.

The output indicator shows the output level. It turns red when the output is clipping or close to clipping.

## ## Delay

Delay adds echoes before the chorus and reverb stages.

| Delay Time | 1 to 2000 ms | Manual delay time when Sync is off.  
| Feedback | 0 to 98% | Sends delayed signal back into the delay. Higher values create longer echo repeats.  
| Mix | 0 to 100% | Blends delayed signal with the dry signal.  
| Ping Pong | Off / On | Alternates delay repeats between left and right channels.  
| Sync | Off / On | Locks delay time to the DAW tempo.  
| Division | Tempo divisions | Delay note value when Sync is on.

When Sync is enabled, Delay Time is controlled by the Division menu. If the host does not provide tempo information, ErgoVerb uses 120 BPM as a fallback.

## ## Chorus

Chorus adds modulation and stereo movement before the EQ and reverb stages.

| Rate | 0.02 to 8.0 Hz | Chorus modulation speed when Sync is off.  
| Voices | 2 to 16 | Number of chorus voices. Higher values sound thicker and wider.  
| Feedback | 0 to 98% | Feeds chorus output back into the chorus stage.  
| Mix | 0 to 100% | Blends chorus signal with the incoming signal.

| Sync | Off / On | Locks chorus movement to the DAW tempo.  
| Division | Tempo divisions | Chorus modulation note value when Sync is on.

Use low Rate values for slow movement and high Rate values for more obvious modulation.

## ## EQ

EQ shapes the signal before it enters the reverb.

| Low Cut | 20 to 2000 Hz | Removes low frequencies before the reverb. Raise this to reduce mud.

| High Cut | 1000 to 20000 Hz | Removes high frequencies before the reverb. Lower this for darker, smoother tails.

## ## Reverb

Reverb creates the main ambience and tail.

| Predelay | 0 to 1000 ms | Delays the start of the reverb. Useful for keeping the dry sound clear. |

| Size | 0 to 100% | Controls the perceived space size.

| Time | 0.10 to 64.0 s | Reverb decay length.

| Mix | 0 to 100% | Blends reverb with the signal.

Short Time values work well for rooms and weird FX. Long Time values create pads, washes, and cinematic tails.

## ## Master

Master controls the final output stage.

| Stereo Width | 0 to 150% | Narrows or widens the stereo image.

| Master Volume | 0 to 150% | Final output level.

| Clip | Off / On | Off | Enables output clipping.

If the output indicator turns red, lower Master Volume, reduce Mix values, or reduce Feedback.

## ## Tempo Divisions

Delay Sync and Chorus Sync use the same division choices:

- 1/1
- 1/2
- 1/4
- 1/8

- 1/16
- 1/32
- 1/64
- 1/1 dotted
- 1/2 dotted
- 1/4 dotted
- 1/8 dotted
- 1/16 dotted
- 1/32 dotted
- 1/64 dotted
- 1/1 trip
- 1/2 trip
- 1/4 trip
- 1/8 trip
- 1/16 trip
- 1/32 trip
- 1/64 trip

## ## Presets

ErgoVerb stores presets as XML files in:

```
`%APPDATA%\ErgoVerb\Presets`
```

On Windows this usually resolves to:

```
`C:\Users\<YourName>\AppData\Roaming\ErgoVerb\Presets`
```

### ### Save A Preset

1. Set the plugin controls the way you want.
2. Click Save.
3. The preset name text is already selected.
4. Type a preset name.
5. Press Enter or click Save.

### ### Load A Preset

Use the preset selector at the top of the plugin, or use the Previous and Next buttons.

### ### Rename A Preset

1. Select the preset.
2. Click the preset name in the preset selector.
3. Type the new name.
4. Press Enter.

Renaming will not overwrite an existing preset with the same name.

### ### Open The Preset Folder

Click the Folder button to open the preset folder in Windows Explorer.

## ## Troubleshooting

Output is too loud or turns red:

- Lower Master Volume.
- Reduce Delay Feedback, Chorus Feedback, or Mix controls.
- Turn Clip off for a cleaner output.

Reverb sounds muddy:

- Raise Low Cut.
- Lower Reverb Mix.
- Reduce Reverb Time.

Reverb sounds too bright:

- Lower High Cut.
- Reduce Chorus Mix or Delay Mix.

Tempo sync feels wrong:

- Confirm the DAW is sending tempo to the plugin.
- Check the selected Division.
- If no host tempo is available, ErgoVerb uses 120 BPM.

Preset does not save:

- Use a non-empty preset name.
- Make sure the name is unique.
- Check that Windows allows writing to `%APPDATA%\ErgoVerb\Presets`.

Preset does not rename:

- Make sure a preset is selected.
- Use a non-empty new name.
- Make sure another preset with the same name does not already exist.