

# MVerb 7B User Manual

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GUI design by Kevin Brown

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## **2    *Product Features***

MVerb 7B is a hybrid algorithmic/convolution reverb with the objective to produce pleasant sounding, long reverb tails at the quality level achieved by convolution reverbs, but with the flexibility and small footprint of algorithmic reverbs. It comes with the following set of features:

- Hybrid (algorithmic/convolution) stereo reverb VST plug-in
- Reverberation time control from 0.4 s to 10 s
- Early reflections pre-delay control
- Low Cut control helps when the reverb sounds muddy
- Hi Damp control to allow for faster decay of high frequencies
- Separate controls for dry and wet signal amount, respectively
- Smart stereo width control respects input stereo panning
- Output level LED indicator
- Gated reverb effect
- Freeze effect
- Preset manager with 64 freely editable presets and 9 factory defaults

## **3    *System Requirements***

MVerb 7B is available as a VST2 plug-in. You will need an audio interface and some VST host or DAW to use the plug-in.

MVerb 7B will run on 64-bit Windows platforms. Mac users may use the plugin via Windows emulation software such as Windows under BootCamp or Virtual PC.

## **4    *Download and Installation***

MVerb 7B is available as a software download from the URL below:

<http://vicanek.de/audioprocessing/downloads/mverb7b.zip>

Installation is only a matter of extracting the files to the right place on your hard disk, i.e. the path where your DAW or VST host looks for VST plug-ins. No other changes such as Registry entries will be made to your system.

## 5 Operation

MVerb 7B can be used for live performances as well as for studio work.

### 5.1 Selecting the Audio Interface

This is taken care of by the DAW and is usually configured once for all.

### 5.2 Audio Routing

To use the plugin in a DAW, you need to set up a proper signal routing. Since MVerb 7B has separate dry and wet controls, you can either insert it at the end of a signal chain, or use a separate send channel with the dry control set to zero. Note that MVerb 7B is a stereo plugin: it has two inputs and two outputs.

### 5.3 Reverberation Time Control

MVerb 7B provides a reverb time control. Technically, RT60 is the time for the reverb sound to decay by 60 dB. The reverb time control ranges from 0.4 to 10 seconds, representing a wide range of very small to very large spaces. The selected RT60 value is displayed on the control for convenience.



### 5.4 Pre-Delay Control

The Pre-Delay control sets the time before the first reflections arrive. To model realistic conditions, you would use small values for short reverb times and vice versa. However, you are free to choose otherwise for effect.



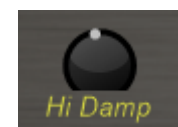
### 5.5 Low Cut Control

Use this control to roll back low frequencies when the reverb sound appears muddy.



### 5.6 Hi Damp Control

The Hi Damp control allows to set a shorter reverberation time for high frequencies, hence rendering the sound more realistic.



### 5.7 Dry and Wet Controls

Separate controls for dry and wet signal levels offer more flexibility in signal routing. With the Dry control set to max, the input signal will pass unchanged, set to min will block the dry signal completely.



### 5.8 Output LED

There is an LED with a color indicating the output level (off below -48 dB, green for -48 dB to -6 dB, yellow for -6 dB to 0 dB, and red above). You should avoid red signal levels, as this will result in clipping.



### 5.9 Stereo Width Control

The stereo Width control adds a wider perceived space. Set to min, the reverberation appears to originate from the same stereo position as the source. In contrast, set to max, reverberation arrives from all directions.



## 5.10 Gated Reverb Control

The Gated Reverb effect got popular in the eighties. The idea is to mute the reverb tail once it decays to a certain threshold. MVerb 7B simulates this behavior by muting the reverb tail after a certain (short) time. Two time settings are provided.



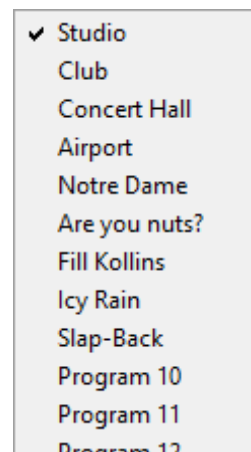
## 5.11 Freeze Control

Pressing the Freeze control will play the current sound grain forever, possibly slowly attenuated by the tone control.



## 5.12 Preset Manager

MVerb 7B features a Preset Manager with 64 freely editable parameter sets called *programs*, with 9 factory defaults.



The top row shows the currently active program (“Studio” in the image above). Click on it to bring up the entire list, and click on a list entry to select that program.

You can also scroll through the list by pressing the “<” or “>” buttons in the second row.

You can edit the program name by pressing “name” in the second row.

To create a new program or change an existing program and store the corresponding parameters, do the following:

1. Select one of the 64 programs from the list. To create a new program, select one of the “Program xx” entries and give it a meaningful name.
2. Tweak the knobs until you are happy with the result.
3. Save the *project in your DAW*. This will save all current parameters in the selected program *for that particular MVerb 7B instance in that particular project*. It will not affect other projects nor any other instances of MVerb 7B within the same project.

You can also save or load a single program or all programs to or from your hard disk by pressing the File menu. This allows you to store programs globally and use them in different projects.

