

MVerb 7B User Manual

by Martin Vicanek



GUI design by Kevin Brown

Table of Contents

1	License Agreement	3
2	Product Features	5
3	System Requirements.....	5
4	Download and Installation.....	5
5	Operation.....	6
5.1	Selecting the Audio Interface	6
5.2	Audio Routing.....	6
5.3	Reverberation Time Control	6
5.4	Pre-Delay Control.....	6
5.5	Low Cut Control.....	6
5.6	Hi Damp Control.....	6
5.7	Dry and Wet Controls.....	6
5.8	Output LED	6
5.9	Stereo Width Control	6
5.10	Gated Reverb Control	7
5.11	Freeze Control	7
5.12	Preset Manager.....	7

1 License Agreement

PLEASE READ THIS LICENSE AGREEMENT BEFORE ACCEPTING IT AND DOWNLOADING OR INSTALLING THE SOFTWARE. BY DOWNLOADING OR INSTALLING THIS SOFTWARE YOU ARE CONSENTING TO BE BOUND BY ALL THE TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO THESE TERMS AND CONDITIONS, DO NOT DOWNLOAD OR INSTALL THIS SOFTWARE.

1.1 Definitions

"Product" is "MV's Plugin" and all the accompanying libraries/files.

"Licensee" is the end-User of the product

1.2 Grant of License

Licensee may download, install and use the Software under the terms and conditions of this Agreement. Licensee may keep as many copies of this software as he/she needs.

1.3 Ownership

Licensee acknowledges and agrees that all rights, titles and the MV's Plugins name and logo, including all patents, copyrights and other intellectual property are and will remain the property of Martin Vicanek. Nothing contained herein will be deemed to grant the User any right, title, the MV's Plugins name or logo, or any patent, copyright, trademark or other proprietary or intellectual property rights related thereto, other than the license expressly granted in this Agreement.

1.4 Restrictions

The Licensee may not sell, resell, charge or accept payment for this software. Licensee may use the software for commercial (profit) and/or non-commercial (non-profit) applications. Licensee may not distribute, redistribute or alter this software or any part of it without prior written permission from Martin Vicanek. Altering includes but is not limited to substitution, removal or addition of any file or part of files included in the package. User may not reverse compile, disassemble or otherwise reverse engineer the Software.

1.5 Support

Martin Vicanek may decide to provide limited internet support via e-mails or any other form he thinks appropriate. Response times are not fixed nor guaranteed and may vary. Martin Vicanek is not responsible if support was not supplied to the User.

1.6 Disclaimer

THIS SOFTWARE IS PROVIDED "AS IS". MARTIN VICANEK DOES NOT MAKE, AND EXPRESSLY DISCLAIMS, ANY EXPRESS OR IMPLIED WARRANTIES, REPRESENTATIONS OR ENDORSEMENTS OF ANY KIND WHATSOEVER, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND THE WARRANTIES OF TITLE OR NON-INFRINGEMENT. IN NO EVENT SHALL MARTIN VICANEK BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, OR INDIRECT DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF PROFITS, BUSINESS INTERRUPTION, LOSS OF PROGRAMS OR INFORMATION,

AND THE LIKE) ARISING OUT OF THE USE OF OR INABILITY TO USE THE SOFTWARE, EVEN IF MARTIN VICANEK OR ANY OF HIS AUTHORIZED REPRESENTATIVES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, NOR WILL MARTIN VICANEK BE LIABLE FOR ANY CLAIM ATTRIBUTABLE TO ERRORS, OMISSIONS, OR OTHER INACCURACIES IN THE SOFTWARE, OR ANY CLAIM BY ANY THIRD PARTY.

1.7 Miscellaneous

1.8 Entire Agreement

This Agreement constitutes the entire agreement between the parties and supersedes any prior agreements.

1.9 Modification

This Agreement may not be modified, amended, rescinded, canceled or waived, in whole or part, except by mutual consent with a written instrument signed by both parties.

1.10 Waiver

Failure by either party to enforce any rights under this Agreement will not be construed as a waiver of such rights, and a waiver by either party of a default hereunder in one or more instances will not be construed as constituting a continuing waiver or as a waiver in other instances.

LICENSEE ACKNOWLEDGES THAT LICENSEE HAS READ THIS AGREEMENT, UNDERSTANDS IT AND AGREES TO BE BOUND BY ITS TERMS AND CONDITIONS. LICENSEE FURTHER AGREES THAT IT IS THE COMPLETE AND EXCLUSIVE STATEMENT OF THE AGREEMENT BETWEEN LICENSEE AND MARTIN VICANEK WHICH SUPERSEDES ANY PROPOSAL OR PRIOR OR CONTEMPORANEOUS AGREEMENT, ORAL OR WRITTEN, AND ANY OTHER COMMUNICATIONS RELATING TO THE SUBJECT MATTER OF THIS AGREEMENT.

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

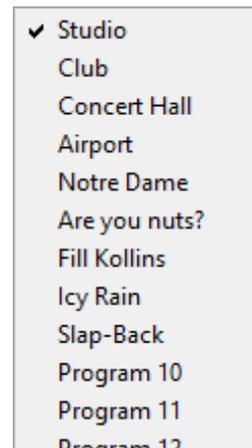
MVerb 7B features a Preset Manager with 64 freely editable parameter sets called *programs*, with 9 factory defaults.



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.

