AMPLIFIKATION Vermilion

User Manual

http://www.kuassa.com

KUASSA

Contents

FOREWORD

Thank you for choosing Kuassa products,

We encourage you to take the time to read this User Manual thoroughly to ensure trouble free and proper operation of the software.

Amplifikation Vermilion is a Guitar Amp Plugin inspired by classic guitar combo amps. It offers gorgeous looks and lots of tonality for serious guitarists who demand a guitar amp plugin with versatility. The engine of this guitar amp plugin is carefully tuned to match the tone of authentic classic amps which truly sing to your playing style.

Amplifikation Vermilion packs everything that every guitarists difficult not to love: jangling cleans, raw tube saturation, springy reverb and that trippy tremolo circuit. The chimey and warm character with a bit of grit from the Clean Channel is great for country, soul, funk, blues, or most older "roots" music style, it even pulls some weight for your indie-pop tracks. The Lead Channel are able to deliver rich and fluid overdrive leads for more modern style of rock, even heavier stuff to some degrees. Add intensity to your playing using the built in tremolo unit which gives you pulsating sound that range from subtle & slow to head-spinning fast and add dimension to the whole sound with rich & lush spring reverb

Key Features :

- 3 Amp Types
- 2 Amp Channels: Clean and Lead
- Built-in FX: Tremolo with BPM sync and Analog Spring Reverb
- 5 types of matching cabinets with 4 microphone types
- freely adjustable dual-miking configurations with mono/stereo configurations just like a real-life guitar recording session
- Built-in Noise Gate and Limiter
- Photorealistic graphics for lifelike guitar playing experience
- Straightforward and easy to use interface
- Support up to 96000Hz Sample Rate

SYSTEM REQUIREMENTS

Windows:

Windows XP or Later (32/64 bit)
Intel Pentium 4, or AMD Athlon XP or better (Core2 Duo or Athlon64 recommended) with 512MB minimum RAM
VST compatible host/sequencer*

Macintosh:

Mac OSX 10.5 or later (32/64 bit)
Intel Pentium 4 , PPC G4, or AMD Athlon XP or better (Core2 Duo or Athlon64 recommended) with 512MB minimum RAM
VST or AU compatible host/Sequencer*

***No DirectX or RTAS format.**
Users can use “VST-DX Wrapper” or “VST-RTAS Adapter” but we do not provide any support for wrapped plugin.

VST & Audio Units

INSTALLATION

Mac OSX 10.5 or later

1. For Mac installer(**.mpkg**) format, double-click the installer and follow the instructions. The installer automatically point to your Mac's default VST "Library/Audio/Plug-Ins/VST/Kuassa" or Audio Units "Library/Audio/Plug-Ins/Components" path. Alternatively you can customize the installation target to specific folder.
2. For compressed format (**.zip**), open the plugin folder in Finder, and simply copy the contained plugin file to your plugin folder listed below:

   Mac Audio Unit (AmplifikationVermilion.component) : ~/Library/Audio/Plug-Ins/Components
   Mac VST (AmplifikationVermilion.vst) : ~/Library/Audio/Plug-Ins/VST/Kuassa

Note for MacOS X users: you must be logged in to a user account with administration privileges to run the installer.

Windows XP or later

1. For Windows Installer (**.exe**), double-click the installer and follow the instructions. The installer automatically point to your system's default "VST Plug-ins" path. Alternatively you can point the installation target to specific folder. Most VST host already have a "Plugins" or "VSTplugins" folder inside it's installation directory, or you can point the host to read any folder you choose.
2. For compressed format (**.zip**), open the plugin folder in Windows Explorer, and simply copy the contained plugin file to your plugin folder listed below. Please note that the folder location can vary depending on system, but the default location is:

   Windows VST (AmplifikationVermilion.dll) : C:/Program Files/Steinberg/VstPlugins/Kuassa

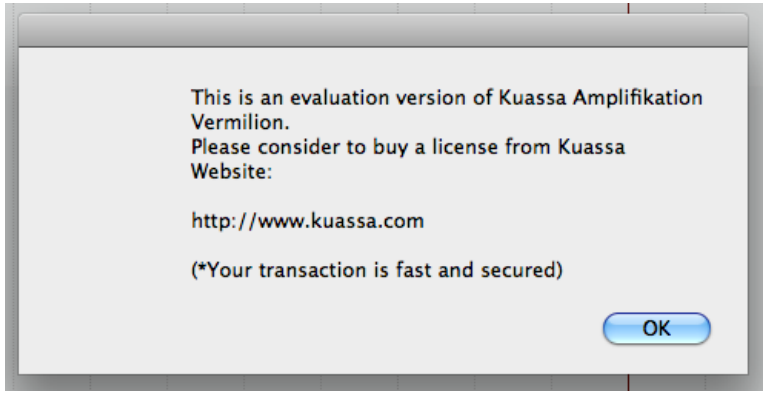
UNINSTALLATION

Mac OSX 10.5 or later
To uninstall from OS X, simply delete the plug-in from your VST folder, which is usually located at "*~/Library/Audio/Plug-Ins/VST/Kuassa*", and your Audio Units folder, which is located at "*~/Library/Audio/Plug-Ins/Components*".

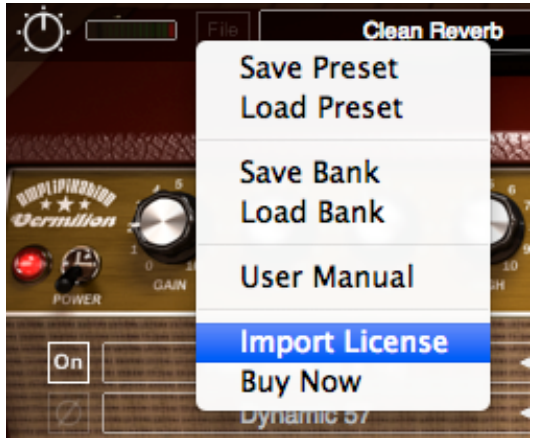
Windows XP or Later
Use "Add/Remove programs" or "*Programs and Features*" from the Windows Control Panel. If Amplifikation Vermilion does not listed, delete the *.dll* file from your VST plug-in folder.

AUTHORIZATION

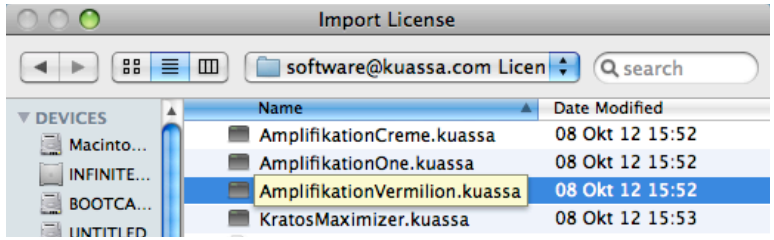
1. On evaluation mode, you will see this pop-up window when you first starting Amplifikation Vermilion.



2. To start the authorization process, click the **[File]** button on the top-left of Amplifikation Vermilion Interface, there, you will find a selection box titled **[import License].**

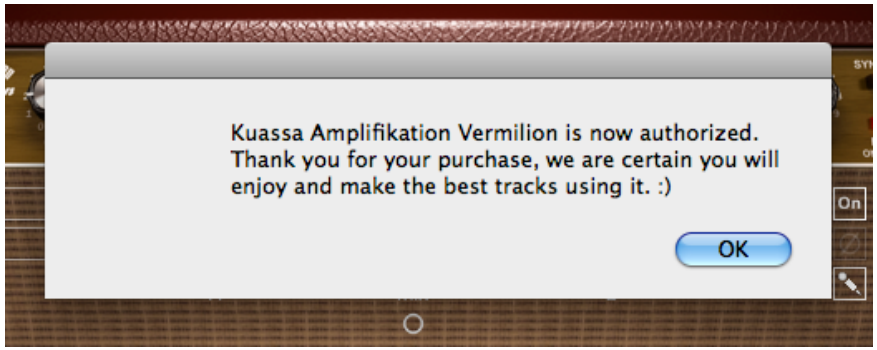


3. Locate the *License File* **[AmplifikationVermilion.kuassa]** obtained from the confirmation e-mail sent to you after you purchase Amplifikation Vermilion from our web store.
   Note that the *License File* contains your personal information used to authorize Amplifikation Vermilion.



AUTHORIZATION (Cont'd)

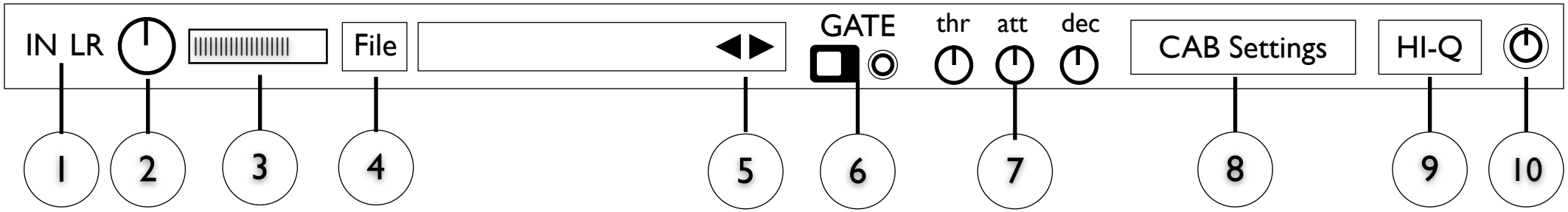
4. After you locate the *License File,* a pop-up box confirming that you are successfully authorize your copy of Amplifikation Vermilion will show.



5. To check if you have completed the authorization process, just simply load the *About Box* by clicking the Kuassa logo on the bottom-left corner. If you're authorization is successful, either your name or your e-mail address will be shown on the *About Box.* You will also notice that the generated noise on the Evaluation Version is now gone.

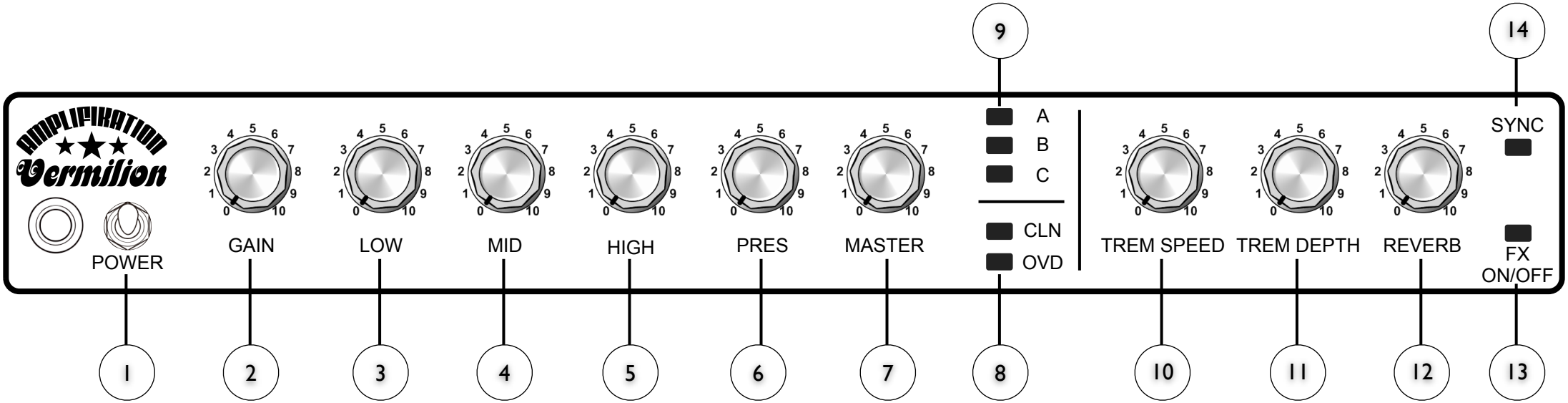
6. That's it! Enjoy your copy of Amplifikation Vermilion, Cheers :)

INPUT SECTION



1. INPUT CHANNEL SWITCH: Click here to switch incoming input signal channel from your soundcard. **L**, **R**, or **L+R** can be selected
2. INPUT LEVEL**:** Controls the level from your soundcard. You may turn it to the maximum without worrying of overloading the amp.
3. INPUT METER: Show the level from your soundcard.
4. SAVE/LOAD PRESETS & BANK: Press to save and load your amp settings. You can also save as “bank” which contains maximum 24 presets. The name of active preset will be displayed.
5. PRESET SELECTOR
6. NOISE GATE ON/OFF: Enables or disables the noise gate utility.
7. NOISE GATE PARAMETERS:
   - **THR**ESHOLD**:** Sets the minimum level where the Noise Gate will do its job. If the input signal level is below threshold, the noise gate will kick in by reducing the signal according to the Attack & Decay settings.
   - **ATT**ACK**:** This controls the time how quickly the gate will open when the signal is above the threshold level.
   - **DEC**AY**:** Determines how quick the gate closes once the signal has fallen below the threshold level.
8. CAB SETTINGS: Hide/Unhide Cabinet Section Parameters
9. HI-Q BUTTON: Turning this to On enables high-quality amp calculations. It will enhance the quality of the sound at the cost of more CPU usage.
10. PLUGIN BYPASS BUTTON: Turns on or off the whole plugin.

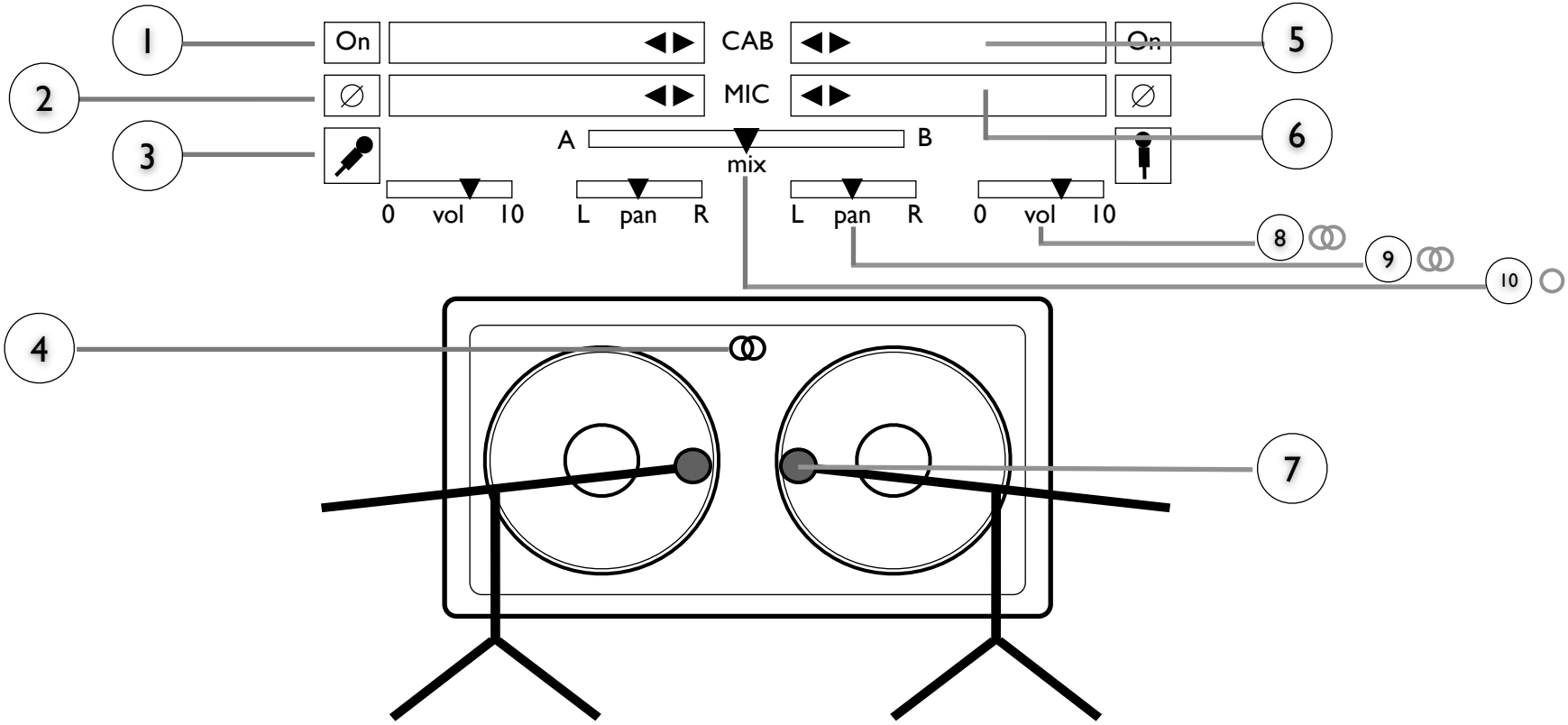
PANEL FUNCTIONS



1. POWER SWITCH: Turns the amp On or Off. If the amp is Off, the sound will go directly to the cabinets.
2. GAIN: Sets the input level & the amount of distortion. Rotate clockwise for more distortion.
3. LOW: Adjusts the low frequency tone
4. MID: Adjusts the middle frequency tone
5. HIGH: Adjusts the high frequency tone
6. PRESENCE: Adjusts the presence level of the amp
7. MASTER: Adjusts the output level from this amplifier
8. CHANNEL: Select between Clean and Lead channel
9. AMP TYPE:
    - Amp A: tube amp, warm, thick overdrive, dynamic
    - Amp B: solid state, mellow, crunchy
    - Amp C: clean, sparkling, tight

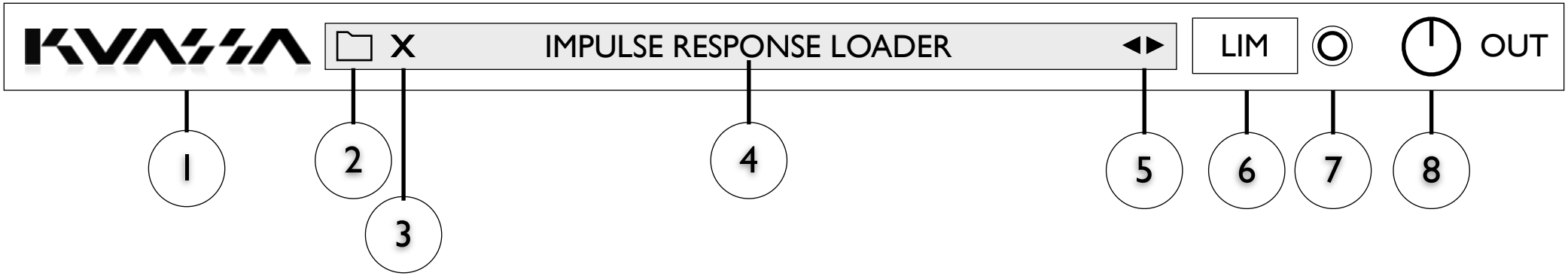
10. TREM SPEED: This knob adjusts the rate/frequency of the tremolo effect. Clockwise rotation increases the tremolo speed
11. TREM DEPTH: This knob adjusts the depth of the tremolo effect. Clockwise rotation deepens the tremolo effect.
12. REVERB: Clockwise rotation will intensify the reverb effect
13. FX ON/OFF: When it is set to the “OFF” position neither the tremolo and reverb effect will be obtained.
14. SYNC: Turning the tremolo speed to be synchronized with the host’s BPM or not

CABINET FUNCTIONS



1. CABINET ON/OFF BUTTON: Enables or disables the particular cabinet
2. PHASE BUTTON: Inverts the waveform polarity.
3. MIC ANGLE: Switches between straight or angled miking
4. MONO/STEREO SELECTOR: Use this to toggle between mono or stereo cabinet modes.
5. CABINET SELECTOR: Choose from 5 models of combo speaker cabinets
6. MIC SELECTOR: Provides 4 types of microphones to use.
7. MIC POSITION : Indicates the position of the microphone. Move it freely with your mouse. Press [Ctrl]/[Command]-click to reset to center position.
8. CABINET VOLUME KNOB (◎◎ Mode): To adjust the volume of the corresponding cabinet
9. CABINET PAN (◎◎ Mode): To adjust the panning position of the corresponding cabinet
10. CABINET MIX BALANCE (◯ Mode): Adjusts mix volume balance between the two cabinets. [Ctrl]/[Command]-click on the slider to reset to center position.

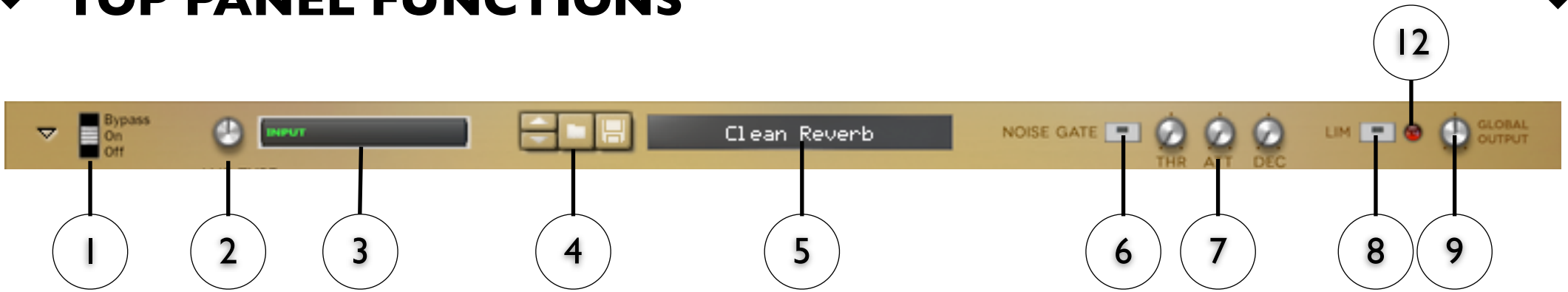
OUTPUT SECTION



1. KUASSA LOGO: Clicking on the logo will show you the About box
2. LOAD IR: Browse into your IR (*Impulse Response*) Folder
3. REMOVE IR: Remove or unload IR
4. IR TITLE: Click this to open a list of available IRs on the a folder
5. IR NAVIGATION: Navigate available IRs on a same folder
6. OUTPUT LIMITER: Enable or Disable the output limiter function. This will compress the sound to prevent overloading.
7. OVERLOAD INDICATOR: Will light up red when the audio signal overloads the cabinets. Turn the amp master volume down, or enable the output limiter.
8. GLOBAL OUTPUT VOLUME : Adjusts the overall master volume from the plugin.

Rack Extension

TOP PANEL FUNCTIONS



1. PLUGIN BYPASS BUTTON: Turns on or off the whole plugin.
2. INPUT LEVEL**:** Controls the level from your soundcard. You may turn it to the maximum without worrying of overloading the amp.
3. INPUT METER: Show the level of incoming signal. For optimal result, make sure the level reaches about 70-80% just before Red indicator starting to light up.
4. PRESET BROWSER
5. PRESET NAME DISPLAY
6. NOISE GATE ON/OFF: Enables or disables the noise gate utility.
7. NOISE GATE PARAMETERS:
   - **THR**ESHOLD**:** Sets the minimum level where the Noise Gate will do its job. If the input signal level is below threshold, the noise gate will kick in by reducing the signal according to the Attack & Decay settings.
   - **ATT**ACK**:** This controls the time how quickly the gate will open when the signal is above the threshold level.
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8. OUTPUT LIMITER: Enable or Disable the output limiter function. This will compress the sound to prevent overloading.
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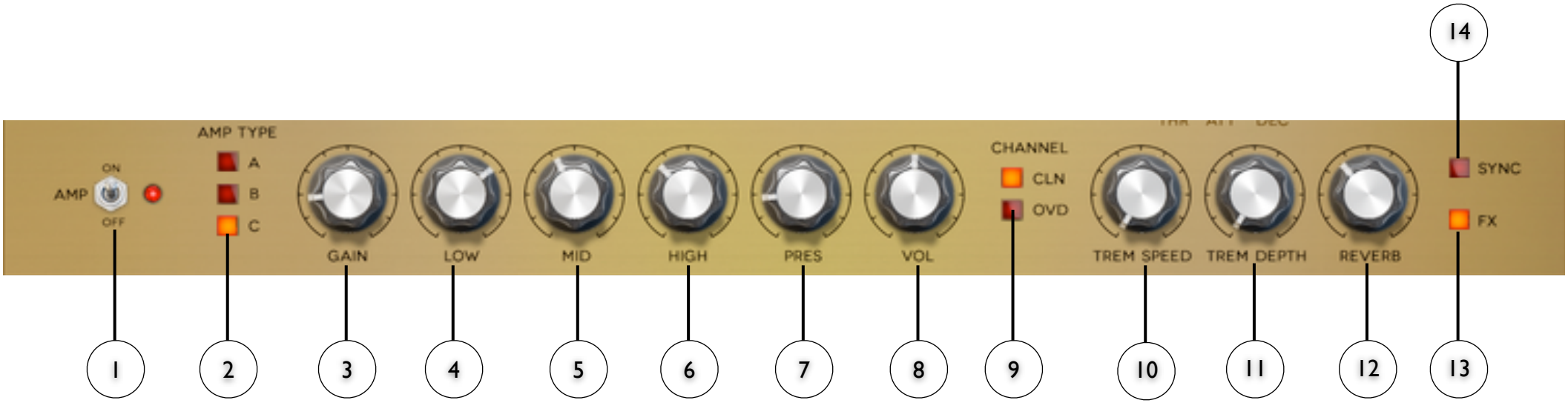
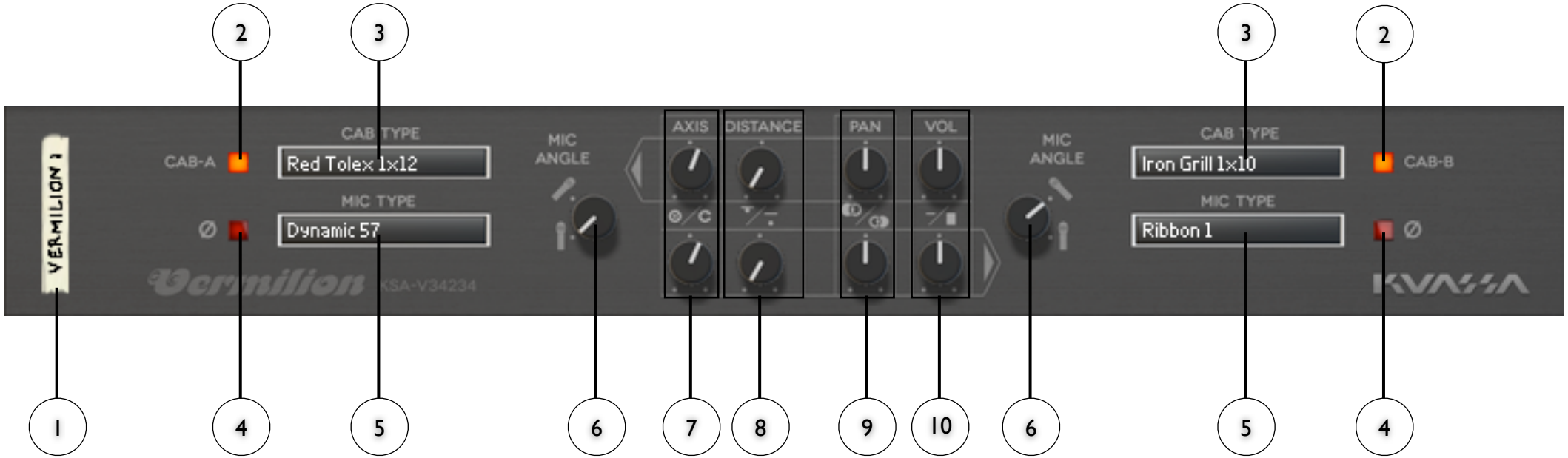
10. GLOBAL OUTPUT VOLUME : Adjusts the overall master volume from the plugin.

AMP FUNCTIONS



1. POWER SWITCH: Turns the amp On or Off. If the amp is Off, the sound will go directly to the cabinets.
2. AMP TYPE:
    - Amp A: tube amp, warm, thick overdrive, dynamic
    - Amp B: solid state, mellow, crunchy
    - Amp C: clean, sparkling, tight
3. GAIN: Sets the input level & the amount of distortion. Rotate clockwise for more distortion.
4. LOW: Adjusts the low frequency tone
5. MID: Adjusts the middle frequency tone
6. HIGH: Adjusts the high frequency tone
7. PRESENCE: Adjusts the presence level of the amp
8. VOLUME: Adjusts the output level from this amplifier
9. CHANNEL: Select between Clean and Lead channel
10. TREM SPEED: This knob adjusts the rate/frequency of the tremolo effect. Clockwise rotation increases the tremolo speed
11. TREM DEPTH: This knob adjusts the depth of the tremolo effect. Clockwise rotation deepens the tremolo effect.
12. REVERB: Clockwise rotation will intensify the reverb effect
13. FX ON/OFF: When it is set to the “OFF” position neither the tremolo and reverb effect will be obtained.
14. SYNC: Turning the tremolo speed to be synchronized with the host’s BPM or not

CABINET FUNCTIONS



1. DEVICE NAME
2. CABINET ON/OFF BUTTON: Enables or disables each particular cabinet, A and B
3. CABINET SELECTOR: Choose from 5 models of combo speaker cabinets
4. PHASE BUTTON: Inverts the waveform polarity.
5. MIC SELECTOR: Provides 4 types of microphones to use.
6. MIC ANGLE: Switches between straight or angled miking
7. MIC AXIS: Rotate *clockwise* to move mic position to edge of cabinet speaker, *counter-clockwise* to center
8. MIC DISTANCE: Rotate *clockwise* to move mic position further from cabinet speaker, *counter-clockwise* for closer mic position
9. CABINET PAN: Adjust the panning position of the corresponding cabinet.
10. CABINET VOLUME KNOB: To adjust the volume of the corresponding cabinet

BACK PANEL FUNCTIONS

1. DEVICE NAME
2. CV INPUTS:
   - **CV Input Socket:** Receive incoming CV message for controlling each of Amplifikation Vermilion's CV control enabled parameters from another device's CV output.
   - **CV Input Trim:** Turn counter-clockwise for each corresponding input to trim or reduce the intensity of incoming CV message.
3. Audio input and output sockets. Please note that Amplifikation Vermilion Rack Extension is an FX, and should always be added as FX device instead of instrument.

MIDI CC NAMES

[**CC**] = Parameter Name

[**128**] = inputVol

-- Noise Gate

[**129**] = gateOn
[**130**] = gateThr
[**131**] = gateAtt
[**132**] = gateDec

--Amplifier Section

[**133**] = ampOn
[**134**] = ampType
[**135**] = ampChannel
[**136**] = ampGain
[**137**] = ampLow
[**138**] = ampMid
[**139**] = ampHigh
[**140**] = ampPres
[**141**] = ampVol

--FX Section

[**142**] = fxOn
[**143**] = fxTremSyncOn
[**144**] = fxTremSpeed
[**145**] = fxTremSpeedSync
[**146**] = fxTremDepth
[**147**] = fxReverb

[**CC**] = Parameter Name

-- Cabinet A

[**148**] = cabOnA
[**149**] = cabTypeA
[**150**] = micTypeA
[**151**] = micPhaseOnA
[**152**] = micAngleA
[**153**] = micAxisA
[**154**] = micDistanceA
[**155**] = micPanA
[**156**] = micVolA

-- Cabinet B

[**157**] = cabOnB
[**158**] = cabTypeB
[**159**] = micTypeB
[**160**] = micPhaseOnB
[**161**] = micAngleB
[**162**] = micAxisB
[**163**] = micDistanceB
[**164**] = micPanB
[**165**] = micVolB

-- Output Section

[**166**] = Limiter On/Off
[**167**] = outputVol

CREDITS

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VST Plugin Technology by Steinberg Media Technologies, GmbH.
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FFTReal copyright by Laurent de Soras

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