





Chris Gehringer Model 2 User's Guide

Make Believe Studios CGII Users Guide

Metric Halo

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1. Introduction

"In 2023 I was at NAMM with my son Tommy. We were walking around and we ran into one of his friends Ryan Harvey who was walking around with a laptop and had the Sontec MES-432 open on it. We struck up a conversation because I was so interested in that plug-in as I've used an actual Sontec for decades in the studio. I was later introduced to Rick Carson who said we should talk about making a plug-in.

Fast-forward two years later, when Rick asked me what I *really* wanted to release. Did I want to release a whole mastering chain? The answer was no... I wanted to release something that would help engineers master in todays modern environment. So with that being said, we've created my plug-in (CG-II) which helps you gain level to loud tracks and add some character (which seems to be what's going on in the industry today).

Our intention going forward is to create tools that I have always wanted to make amazing sounding masters - tools that are necessary for todays music." - Chris Gehringer



CGII is a mastering dynamics finishing toolkit.

CGII is comprised of two uniquely complementary dynamics enhancement sections, a new True Peak Limiting stage, DC blocking and dither with LUFS/true peak metering via tube filament displays, all operating at up to 16x oversampling.

The design prioritizes musical integrity and ease of use, with the ability to add effective loudness, weight and definition without dimishing spatial depth and visceral impact the way traditional dynamics processors do.

2. Operation



CGII features a level metering display above a streamlined UI with two control knobs and a small selector switch array.

- The Nixie tube numeric readout across the top displays EBU R128 specified Integrated, Momentary or Short Term LUFS or True Peak values at the output of the processor.
- density brings up previously masked small-signal detail without affecting existing peak dynamics.
- filter engages a 1Hz DC Block filter.
- true peak switch engages our brand new oversampled and look-ahead True Peak Limiter as the final process stage.
- The OdB, -0.1dB and -1dB switches set the limiter output ceiling.
- bypass duplicates the Bypass button in the plug-in header bar.
- The loudness control operates a uniquely tuned soft saturation stage before the peak limiter.
- The dither adds dither and outputs the specified audio word length from 24 bits down to 16 bits.

Tooltip mouse-over pop-ups are available for all UI elements by clicking the circular ? Help icon in the plug-in header bar.

Knob parameter values are displayed via tooltip overlay as you adjust the knob.

Right-click a knob to enter a value manually.

Features and controls are individually detailed in the following pages.

EBU R128 LUFS / True Peak Meter display

The Nixie cold cathode tube display shows the current LUFS or True Peak levels taken at the output of the processor as per the EBU R128 specification.



Click the decimal point to select the display type:

Show Integrated LUFs
 Show Momentary LUFs
 Show Momentary LUFs Hold
 Show Short Term LUFs
 Show Short Term LUFs Hold
 Show True Peak
 Show True Peak Hold

CGII numeric display selector

Click anywhere in the display area to release/reset the meter.

Density control

The **density** control knob progressively promotes lower level program detail without affecting the peak volume range. The control range is from "0" (no effect) to "30" (maximum effect). The actual degree of perceived level change is dependent on the source program.

The higher you turn the knob, the more small-signal detail is brought up.



The algorithm increases perceived program level by pushing up previously masked detail without affecting higher level peak dynamics. In louder, more modern mixes this often adds weight and heft (hence the parameter name).

In more open audio with lots of dynamic range, **density** will bring up critical program information that might end up masked or unnaturally degraded by codec and/or dynamic range post-processing for streaming.

In mixing, the **density** control is specially useful as a performance leveler for vocal and acoustic instrument tracks where louder phrases sit perfectly but more consistency and presence is needed in quieter sections of a given track. It offers a lighter touch than a traditional leveling comp/limiter stage, but because of its purity and transparency, less processing is needed for desired outcomes.

Button bar controls

The push switch array controls are (from left to right):



DC Block filter

filter inserts a DC block at the input stage. The filter is a 2nd Order high-pass with the corner frequency at 1Hz, down to $-\infty$ dB at DC.

True Peak Limiter

The true peak switch engages the CGII True Peak Limiter after the Loudness soft saturator stage.

The function of the **Odb**, **-0.1dB**, **1.0dB** Limiter Ceiling Selector is dependent on the state of the True Peak Limiter:

• Limiter OFF

When the True Peak Limiter is OFF, the **Odb**, **-0.1dB**, **1.0dB** threshold value is used as a gain offset to the output of the Loudness stage. It will set the output ceiling to the level specified, but there is no protection against higher true peaks slipping through.

• True Peak Limiter ON

With the True Peak Limiter ON, **Odb**, **-0.1dB**, **1.0dB** sets the True Peak threshold/ceiling, beyond which there will be no intersample peaks.

To confirm, the True Peak Limiter stage is by nature look-ahead and internally oversampled. When the Limiter is OFF, CGII switches to a delayed parallel path bypassing the processor stages entirely to ensure that plug-in latency remains constant and as transparent as possible at all times.

Note: The Odb, -0.1dB, 1.0dB threshold values are radio-style buttons, so only one can be selected at a time.

Bypass

Pressing the **bypass** button cleanly disables all processing. When engaged, CGII will maintain the time delay through the channel and will continue to show metering. This bypass is a mirror of the Bypass control in the plug-in header bar.

Loudness control

The Loudness knob sets the soft saturator stage threshold in dB (inverted). If the knob is at 6, the threshold is -6dB.



The saturator has been designed to work in concert with the **density** stage to stabilize and drive higher levels of perceived loudness without the usual sacrifices of soundstage width, depth and detail which compromise the impact and vibe of the music.

Dither control

Toggling the Advanced Settings icon at the right of the plug-in header bar shows / hides the CGII **Dither** control.



CGII Dither (active when yellow, as shown below) engages TPDF dither at the output stage.



The **Dither Bits** control sets the appropriate amount of dither applied for final destination audio word length reduction (such as delivering to 16 bit CD format).

The Dither Bits range is from a maximum of 24 bits down to 16 bits.

Note: Since CGII is designed as a final stage mastering processor, the default setting is Dither Engaged at 24 bits to ensure consistently high quality encoding processes downstream.

3. Plug-In Header Bars

All Metric Halo and Make Believe family plug-ins display the MH header bar at the top of the plug-in window. This header bar allows you to organize and access all your presets across all supported plug-in formats on Mac, Windows and Metric Halo hardware DSP via MIOConsole3d.

It is especially useful in that, regardless of platform, it provides a straightforward, powerful and consistent processing workflow wherever you might be working.

With the constant evolution of computer capabilities opening the door to new production techniques and music delivery formats, the differences between DAW software workflows have become ever more diverse. Many of the major DAWs provide their own plug-in headers within every plug-in instance window, providing their own feature set catering specifically to their internal workflow.

Conversely, other equally popular DAWs provide no added feature support for plug-ins (such as plug-in parameter Undo/Redo), opting instead to insert plugs as a straight processing block.

The plug-in header bar bridges that gap by offering the most asked for plug-in functions in a simple GUI, making all of our plug-ins functions and their presets available to every user on every platform.

The plug-in header bar has two rows of controls, with the Metric Halo logo icon at the top row left.

The top row handles plug-in operations, including update notification and download, access to MH online resources, GUI preferences, tooltip help, A/B parameter snapshots, snapshot Blend, plug-in Undo/Redo, Oversampling modes, Compare and soft Bypass.



The lower row (with the 'hamburger' menu icon at the left) is primarily preset management, but with an additional icon to the right for accessing CGII "Advanced Settings".

Plug-In Header: Top Row



Metric Halo Header Icon

Clicking the MH icon expands the entire plug-in window to the right and opens a multi-function control sidebar with the About tab in focus:



This sidebar has context-sensitive tabs across the top for GUI About and Current Release Notes.

| About | Current Release Notes | | × |
|-------|-----------------------|--------|---|
| About | Current Release Notes | Update | × |

Plug-in control pane tabs

When updates are available for download from Metric Halo, the MH icon will sport a blatant red dot (shown in the header map at the top of this page) and an Update tab is added to the sidebar. These tabs are dynamic by design, and additional tabs may appear as new content becomes available.

To close the sidebar, click the MH icon again, or the "X" at the right edge of the tab bar.

About tab



The **About** tab reveals the current plug-in version information and provides convenient web links to product info, support pages and the current manual on the Metric Halo main website.

Clicking the "CGII Users Guide [PDF]" link will open and display the latest CGII manual in your default web browser.

Reveal Plug-In File... will open the folder containing the current plug-in file, with the plug-in file itself selected. Very handy for troubleshooting on the fly.

Current Release Notes

| About | Current Release Notes | × | | |
|---|--|---|--|--|
| | Important Notes | | | |
| This version of the AAX plugins are currently Native only and do not provide DSP executables for HDX/Carbon DSP chips. As a result, if you upgrade your AAX plugins to v4, you will not able able to use them on the HDX/Carbon DSP chips but they will continue working natively. The installer for this version will overwrite earlier versions of the plugins, and the versions installed by this installer require the updated v4 license. | | | | |
| This version of the plugins is a complete rewrite of the host-side components of the plugins, and is now based on Metric Halo's MHShell plugin technology. This provides a number of significant benefits to owners of the plugins: All plugins are now built under a unified shell so they all inherit the base functionality of the shell, including: New look, including skin choice and preferences MH Logo Details view Software update tracking Quick Links to product pages, manuals, and tech support Undo/Redo | | | | |
| | A/B snapshots, and snapshot blend More flexible resizability Common controls in the header bar (Help, Resize, Resp. Diselecture) | | | |
| Resize, Pane Disclosure) Unified build architecture, so all plugins on all platforms (MIO, Mac, Win) receive all updates and improvements simultaneously. Added support for VST3, so now all plugins support AU, AAX, VST2 and VST3 on macOS, and AAX, VST2, and VST3 on Windows. | | | | |

Current Release Notes example

Current Release Notes lists a synopsis of major changes (a snippet of which is shown above), with feature and bugfix revisions for the most recent software releases listed below.

Please note that on Windows, the release notes will not be displayed in the pane, and a link to the release notes will be displayed instead. You can click the link to view the release notes using your current default web browser.

Update notification tab



The **Update** tab will contain a link to download the new installer package in the header at the top of the pane.

Below the download link header will be release notes detailing the major changes included in the update, with bugfix revisions for the most recent software releases listed further below. Windows users will see a link to view the release notes using your current default web browser.

Click the Installer link to download, unzip and run the installer manually, preferably when your audio software is inactive so it can properly scan the new versions at launch.

Plug-in Snapshot Registers: A/B



The A and B buttons control the A and B state registers. The A/B registers are used to store modified parameter snapshots in addition to the original saved preset called up by **Compare**.

The Blend function can be used to smoothly morph between the parameters set in the A and B registers, and Blend is a mappable parameter so it can be operated with external MIDI control. Details of the A/B Snapshot Blend feature follow on the next page.

For each of the A and B buttons the visual display tells you the state of the register:

- Light Grey means the register is empty
- Dark Grey means it has settings, but is unselected
- Blue means it has settings and is selected

You can perform the following actions:

- Clicking on an empty register takes a snapshot of the current settings and saves them to the register.
- Clicking on an unselected filled register copies the register parameters to the current active plugin settings.
- Clicking on a **selected** register toggles to the other register; this lets you toggle between the register settings without having to move the mouse.
- The Copy button will show N/C and remain inactive until one or both of the registers is in use. The Copy button will alternate between A>B (copy A to B) or B>A (copy B to A) depending on which register is selected. Clicking the Copy button then copies the settings from the selected register to the target register, overwriting the prior contents (if any).
- <Option> clicking on a register snapshots the current settings and saves them to the register, overwriting the prior contents (if any).
- Changing settings when a register is selected will update the settings in the register to reflect the change.

Snapshot Blend

The Blend button allows you to interpolate (or morph) between the parameter snapshots stored in the A and B registers. It becomes active when both A and B have a parameter set stored.

Blend is a MIDI-mappable parameter so it can be operated in realtime with external MIDI control and/ or automated in the DAW. This allows you to automate a transition from the A \rightarrow B register, the B \rightarrow A register or any setting between the two.



Plug-in Header: Snapshot Blend

The Blend button's visual display tells you the state of the register:

- Light Grey means it is empty
- Dark Grey means it has settings, but is unselected
- Blue means it has settings and is selected

Click on Blend to popup the blend control. Slide all the way to the left to apply the settings in the A register. Slide all the way to the right to apply the settings in the B register. Intermediate settings for blend will give you intermediate settings for any parameter that is different in register A and B. The blend control does not change the state of Bypass.

Note that the Blend is not a parallel processing mode where two instances of the processor are running the A and B settings and the output is a parallel blend of the two settings. Rather, Blend interpolates the parameter settings of the two registers to one instance of the processor. You can see the parameter controls move between A and B settings as you slide the Blend control.

The A/B and Blend settings are stored and recalled as part of the plug-in state, but are not saved as individual presets in the preset bar.

While you can use the blend with arbitrary A and B settings we find it works best when you craft the settings in the two registers in such a way as they are related to each other. Specifically, if an indexed (stepped) parameter is different between the two settings, the interpolated value will snap to one of the indexes between the two settings, which can be jarring.

It is best if the parameters that you blend are smooth parameters (e.g. gains, frequencies) and make sure the indexed parameters (enables, modes, band types) are set the same for both registers.

The easiest way to do this is to load the same setting into both registers and then tweak the settings of one of the registers.

This works especially well if you make one of the registers be the basic settings with all the gains or thresholds flattened out so that you can smoothly interpolate between a setting and effectively bypassed - we have found that this allows you to zero in a perfect configuration between too much and too little.

Plug-in Undo/Redo

All the plug-ins provide support for undo/redo from the plug-in header bar.



Plug-in Header: Undo/Redo

The left and right curved arrows represent Undo (Left) and Redo (Right). These arrows are grey when there is nothing to Undo or Redo.

The arrows are white when it is possible to Undo (Left) or Redo (Right). Clicking the left arrow when it is white will undo the last action you made in the plug-in. When you undo something that change is placed on the redo stack, and the Redo button will turn white.

Clicking the Redo button (when it is white) will restore the state that the last Undo changed.

If the Redo button is white and you make a change in the plug-in, the Redo button will go grey as the redo buffer will be cleared.

Help Button



This button toggles the tooltip display. When enabled, tooltips will be shown when the mouse hovers over a control. When the tooltip display is disabled, you may still see tooltips by holding down the ? key and hovering over a control.

UI Size Selector



This pull-down menu lets you set the plug-in UI size to taste.

The size is remembered and applied the next time you insert a CGII plug-in.

Oversampling Selector



Oversampling Multiplier Selector

Oversampling may be selected for each instance of CGII, from 2x to 16x. The default Oversampling setting is **None**.

Compare Button



Compare Button (active)

To use the compare button, a preset must first be loaded. The compare button will be lit up when the current settings differ from the selected preset. If you click this button while it is lit, the preset settings will be restored, but you can still return to the changes you made by clicking on the button again. It is important to note that any changes you make to activate the compare light are always for comparison to the last loaded preset.

Soft Bypass



When glowing yellow, this button will maintain the time delay through the channel and will continue to show metering, but will cleanly disable the processing.

Plug-In Header: Preset Row



Plug-in Hamburger menu

The preset and parameter functions within the hamburger menu break down as follows:

| Save Parameters | |
|-------------------------|--|
| Save Parameters As | |
| Rename Current Preset | |
| Delete Current Preset | |
| Create New Category | |
| Delete Current Category | |
| Copy Parameters | |
| Paste Parameters | |
| Factory Default | |
| Reveal In Finder | |
| | |

- Save Parameters saves the current plug-in parameters to the current preset.
- Save Parameters As... opens a dialog box where you can name and choose a category to save your current plug-in settings.
- Rename Current Preset... lets you rename the current preset.
- Delete Current Preset... deletes the current preset.
- Create New Category... lets you create a new preset category for the current plug-in type.
- Delete Current Category... deletes the current preset category.
- Copy Parameters copies the current parameter set so you can paste them to another instance of the same type plug-in.
- Paste Parameters pastes the copied parameters. Note that pasting a parameter set over an existing named preset will change the preset name field to: [No Preset].
- Factory Default loads the factory default settings for this plug-in.
- Reveal In Finder opens the folder in which the current preset is saved.

Preset Step-Through Buttons



These buttons step through Factory and User Presets in succession, as they are listed in the Preset Selector window. The left arrow chooses the previous preset. The right arrow chooses the next preset.

Preset Name/selector menu:

| Filter | | | |
|-------------------|-----|-------------------------|--------------|
| | All | Factory | User |
| All | Þ | Acoustic Bass | ſ |
| Factory Presets | Þ | Acoustic Guitar | U |
| Basic Settings | ⊳ | Acoustic Guitar | |
| Bass | Þ | AcousticGuitFull&Bright | |
| Compressors | ⊳ | Bass 1 | |
| Cut Filters | ⊳ | Bass 2 | |
| De-Essers | Þ | Bass AddAttack | |
| Drums | ⊳ | Bass Lift | |
| Full Mix Settings | ⊳ | Bass-Easy Eq+Comp | |
| Guitars | ⊳ | Bass-Helps Noisy DI | |
| Over the top | ⊳ | Boing & Click | |
| Special Effects | ⊳ | Boing&Swish Fast Attack | |
| Vocals | ⊳ | Boost&Scoop | |
| Audition on sele | ect | | Cancel Apply |

Plug-in Header: Preset selector menu (ChannelStrip shown)

The Preset selector will open to show all the available preset categories, and the presets within those categories.



Preset selector menu: Audition on select

With "Audition on select" enabled at the bottom of the window, selecting a preset will temporarily load those parameters so you can hear the effect on the audio you are playing, without actually committing to the preset.

Click **Cancel** to revert to your previous settings and close the selector window.

Hit **Apply** to commit the new preset parameters and close the preset selector window.

Dither control



The gear icon at the far right of the Presets bar show/hides the CGII **Dither** control UI.

See the CGII Dither section for details.

4. Installation

For both Mac and Windows, there is a single standard installer for CGII containing all formats that allows you to decide which formats you would like to use.

Мас

Please note– The following graphics show installation on a macOS 12 system; the process may be slightly different in other versions of the OS, but the basic concepts are the same. Small details such as file sizes shown may vary with subsequent releases.

• Double-click the "CGII.pkg" application



CGII.pkg

• The first window requests permission for the installer program to scan for the presence of earlier versions of Metric Halo plug-ins. Clicking "Cancel" will quit the installer. Click "Allow" to proceed:

| METRIC HALO | This package w to determine if the beins To keep your com should only run p software from a trus not sure about this click Cancel to stop instal | ill run a program the software can stalled. nputer secure, you programs or install sted source. If you're a software's source, the program and the lation. | |
|-------------|---|--|------------------|
| METRIC HALO | | | |
| | | | Go Back Continue |

Click "Allow" to proceed...

• The installer dialog will appear:

| | Welcome to the CGII_v4.0.49.213 Installer | | |
|--|---|--|--|
| | CGII | | |
| License | The installer will guide you through the process of installing the GCII plugins. | | |
| Plug-in Types | This installer will install the AAX, AU, VST and VST3 versions of the | | |
| Destination Select | plugin. | | |
| Installation Type | The AAX versions of these plugins require Pro Tools 11 or newer. This version of the bundle supports AAX Native | | |
| Installation | | | |
| Summary | plugins are Intel and Apple Silicon native. | | |
| | This software requires macOS 10.10 or newer. | | |
| METRIC HALO | You will need to have a valid license installed on an attached iLok, iLok Cloud or on your computer for this software to run. If you do not have a license, contact Metric Halo to receive a demo license or purchase a permanent license. | | |
| | Go Back Continue | | |

Click "Continue"...

• Now you will see the Metric Halo License Agreement:



After you have read it, click "Continue"...

• Next, click "Agree" to accept the License Agreement:



- The default installation will install Audio Unit, VST2, VST3 and AAX plug-ins to their respective folders in the root Library directory:
 - AU to /Library/Audio/Plug-Ins/Components
 - VST2 to /Library/Audio/Plug-Ins/VST
 - VST3 to /Library/Audio/Plug-Ins/VST3
 - AAX to /Library/Application Support/Avid/Audio/Plug-Ins

Selecting any one or more specific plug-in types will install or upgrade only those formats, leaving older plug-ins in unselected format types untouched.

Your plug-in format selection will be saved as a preference and pre-set automatically for future Metric Halo family plug-in installations on this computer. Of course you may change your selections at that time.

| | Choose Plug-in Types to Install |
|--|---|
| Introduction License Plug-in Types Destination Select Installation Type Installation Summary | The plug-ins are available for AAX (Pro Tools), AU (Audio Units), VST 2, and VST 3. Please select the plugin types you wish to install below: All Plug-In types AAX AU VST 3 VST 2 |
| METRIC HALO | Go Back Continue |

• Since there is only one plug-in to be installed, the "Custom Install" page really only serves to verify whether you are installing or updating CGII.

| | Custom Install on "Macintosh HD" | | |
|---|----------------------------------|------------|-----------|
| | Package Name | Action | Size |
| Introduction | CGII | Upgrade | 24.4 MB |
| License | | | |
| Plug-in Types | | | |
| Destination Select | | | |
| Installation Type | | | |
| Installation | | | |
| Summary | | | |
| | | | |
| A MARTINE AND | Space Required: 24.4 MB | Remaining: | 247.95 GB |
| | | | |
| METRIC HALO | | | |
| | | | |
| | | Go Back | Continue |

Click "Install" to proceed.

• The final confirmation window displays the total size of the selected installation. Hit "Install" to proceed.

| | Standard Install on "Macintosh HD" |
|--|---|
| Introduction License Plug-in Types Destination Select Installation Type Installation Summary | This will take 24.4 MB of space on your computer. Click Install to perform a standard installation of this software on the disk "Macintosh HD". |
| METRIC HALO | Go Back Install |

• If present, Touch ID/Face ID will execute the installation once it recognizes your biometrics:



Otherwise, enter your login password as usual and click "Install Software".

• Once the installer has finished, you'll see this dialog:



If you do *not* see the "Installation Successful" message, contact MH Support.

That's it! Enjoy using CGII!

Windows

Please note – The following graphics show installation on a Windows 11 system; the process may be slightly different in other versions of the OS, but the basic concepts are the same. Small details such as file sizes shown may vary with subsequent releases.

• Double-click the "CGII" installer application.



• The installer dialog will appear:



Welcome Dialog

Click "Next" to proceed.

• Read the Metric Halo License Agreement:



After you have read it, click next to "I accept the terms of the License Agreement" and click "Next".

• Custom Setup Options

| CGII_v4.0.57.221 Setup | – 🗆 X |
|---|---|
| Custom Setup Select the way you want features to be installed. | |
| Click the icons in the tree below to change the way feat | ures will be installed. |
| CGII_v4.0.57.221 Presets CGII CGII_VST2 CGII_VST3 Thi har Sub Sub | s installer will help you install the tric Halo Plugins on your system. & Next to Continue, or Cancel to t the Installer. s feature requires 0KB on your d drive. It has 4 of 4 ofeatures selected. The ofeatures require 62MB on your d drive. |
| Location: C:\Program Files\ | Browse |
| Reset Disk Usage Bad | Cancel |

Custom Setup

The Windows installer **Custom Setup** page allows you to refine the features to be installed and their location.

By default, VST2, VST3 and AAX will be selected for installation to the C:\Program Files\ folder. Specifically:

- VST2 to C:\Program Files\Common Files\Steinberg\VST2
- VST3 to C:\Program Files\Common Files\VST3
- AAX to C:\Program Files\Common Files\Avid\Audio\Plug-ins

These default locations are the most commonly used and should be recognized automatically by most DAWs. See your host DAW software Plug-Ins Location Preferences to verify the above directories are in your DAWs Plug-In Locations list.

If not, then you can either click **Browse** to change the installation target folder (the Browse button is in the lower right of the installer Custom Setup window), or add the locations listed above to the DAW Plug-Ins Location Preferences.

When you have made your selections, click "Next" to continue.

• The next page is a confirmation to continue, offering a last chance to go back and review your selections from the previous window:



Ready to Install

Click "Back" to return to the Setup page, "Cancel" to cancel the installation, or click "Next" to continue.

• Once the installer has finished, you will see this dialog:

| 💽 CGII_v4.0.57.221 Setup | | _ | | × |
|--------------------------|--|---------|---------|----|
| METRIC HALO | Completed the CGII_v4. Wizard Click the Finish button to exit the Se | 0.57.22 | 21 Setu | ιp |
| | Back Fin | ish | Cano | el |

Installation Complete

If you do *not* see the "Installation Successful" message, contact MH Support.

That's it! Enjoy using CGII!

Suggested practices and troubleshooting tips

For best results, make sure your DAW is set to scan your audio plug-ins at every launch. This may add a bit of time at launch, but it helps make sure that new and updated plug-ins will be properly registered.

When making changes to DAW Preferences Plug-in Locations, make sure to quit the DAW, finish your installations and restart the DAW so the plug-ins will be properly scanned and ready for you to use.

If new plug-ins do not register, open your Plug-Ins Preferences and clear or reset any plug-in caches, 'ignore' or 'block' lists, then quit and relaunch the DAW to scan and re-register all your current plug-ins. Periodically clearing the plug-in caches is a common studio maintenance practice, especially after installing or removing audio software.

The easiest way to check that your plug-ins have been properly installed is to open C:\Program Files\ and type **vst** in the search field. This will show a list of all your installed VSTs and their locations within nested Program Files sub-directories for comparison against your DAW preferences.

Update Notification (all platforms)

CGII will automatically check for newer version availability (if your computer is connected to the internet).



Plug-in Update Alert

If a new version is found, the Metric Halo icon in the plug-in header bar will sport a lovely red dot. Click on the dotted icon and check the Update Notification tab for release notes and download instructions.

5. System Requirements

Hosts:

- *Pro Tools™ (Mac)*: Pro Tools 11 or higher running on a Macintosh computer. The v4 software currently supports Native AAX operation only.
- *Pro Tools™ (Windows)*: Pro Tools 10 or higher running on a Windows computer. The v4 software currently supports Native AAX operation only.
- Native (Mac): Any Intel or Apple Silicon-native Mac DAW (64-bit) that supports AU, VST2, VST3 or AAX plug-ins.
- Native (Windows): Any Intel Windows (64-bit) DAW that supports VST2, VST3 or AAX plug-ins.

Operating System:

- Mac: Any Apple Silicon (ARM) or Intel-based Mac running Mac OS X 10.9 or newer
- *Windows*: Any Intel-based Windows PC running Windows 10 or newer.

Licensing:

• A PACE iLok.com account. You can authorize your v4 license to your computer, iLok Cloud or any 2nd or 3rd generation iLok USB key.

The first generation blue-green iLok USB keys are no longer supported by PACE for new product authorizations.

Please note that prior v2 and v3 licenses are separate and remain valid: you do not have to trade in your old iLok license. Production Bundle v3 and earlier plug-ins will continue to serve on older systems in addition to the v4 installations on newer platforms, with full preset compatibility between v3 and v4.

- One license authorizes the software on any platform.
- The most recent iLok License Manager installer can be found here: iLok License Manager application and driver installers.

Older operating systems may require a specific version of the iLok driver, which can be found here: Legacy iLok application and driver installers.

6. Service and Support

Make Believe Studios takes great pride in the reputation for customer service and support that we have built. If you have any problems, questions, or suggestions please get in touch with us at: your_friends@makebelievestudio.com