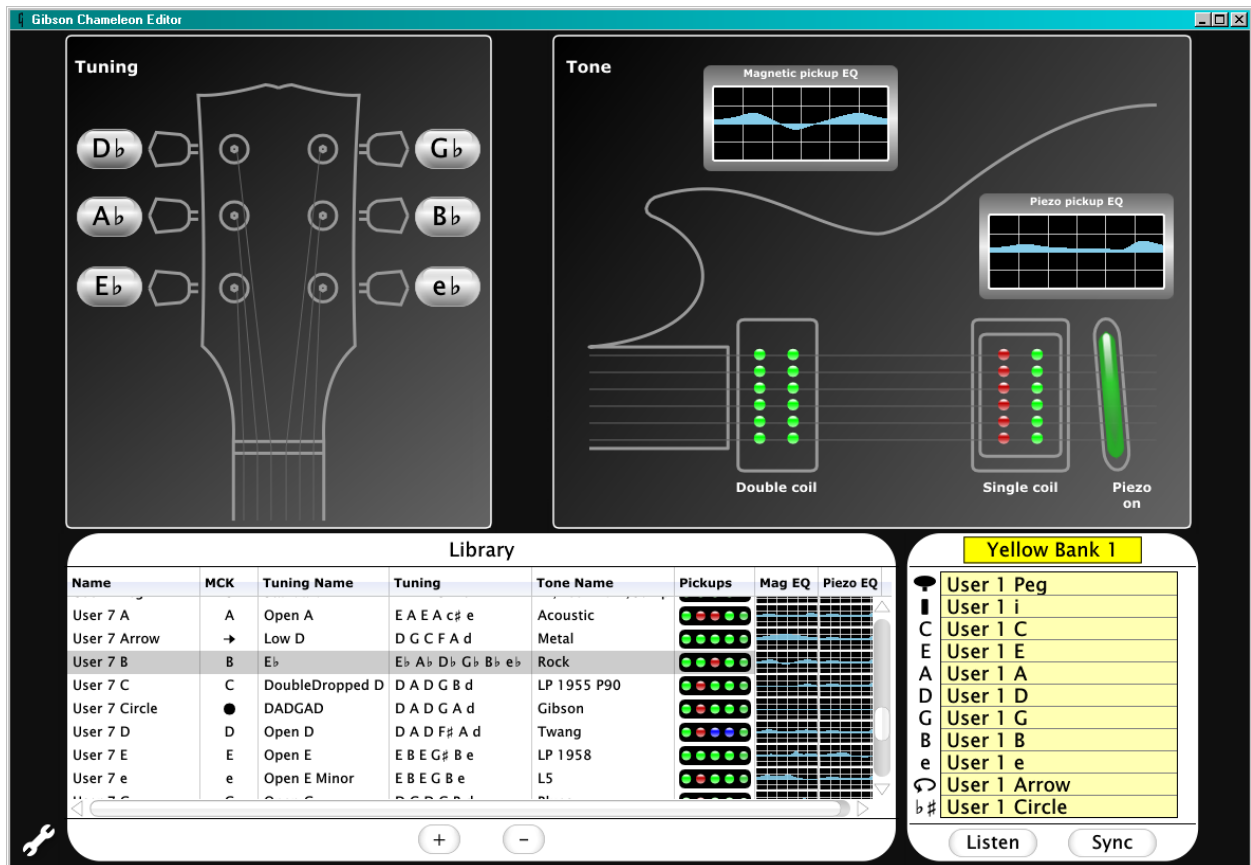


Gibson Chameleon Editor Software



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For technical assistance, it is highly recommended you first check the dedicated Dusk Tiger® website at <http://www2.gibson.com/Products/ElectricGuitars/Les-Paul/Gibson-USA/Dusk-Tiger.aspx> for software updates, updated documentation, and a forum for discussing any issues you may have; otherwise, contact the service center nearest you.

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Chapter 1: Introduction

The Gibson Chameleon Editor is a cross-platform (Windows/Mac) program that lets you create and save your own Chameleon tones and tunings—edit pickup configurations, pickup equalization, and custom tunings. You can create a virtually unlimited number of presets, then transfer up to 88 custom presets to the Dusk Tiger Yellow Bank, which provides 8 banks with 11 custom preset slots per bank. You can also open, edit, and save presets in the Green and Blue Banks, as well as transfer presets to these Banks.

The Gibson Chameleon Editor can also upgrade Dark Fire guitars to the Dusk Tiger operating system, which allows using the Chameleon Editor to edit Dark Fire presets. When you connect Dark Fire to the Chameleon Editor, you will be asked if you want to update Dark Fire to the latest operating system. If you later decide you would rather return to the original operating system, Gibson will be offering a stand-alone utility to “downgrade” the operating system, but then the Chameleon Editor will no longer work with Dark Fire.

Minimum System Requirements

The Gibson Chameleon Editor requires the Echo Audio RIP (included in the Dusk Tiger Accessory Pack) and a desktop or laptop computer with:

- Available FireWire 400 port (four-pin or six-pin). FireWire 800 ports are supported only under Mac OS X and Windows 7.
- At least 512MB RAM (1GB or more is *highly* recommended)
- **Mac:** Mac OS X 10.4 or later
- **Windows:** Any version of Windows XP, Windows Vista, Windows 7, or Server 2003. XP must have at least Service Pack 2 installed, but Service Pack 3 is strongly recommended. Vista should have at least Service Pack 1. Newer versions of these operating systems are also supported. The RIP drivers are true 64-bit drivers that are fully compatible with 64-bit operating systems.

You Must Have a Working RIP Setup

The Gibson Chameleon Editor communicates with Dusk Tiger through the RIP interface. You can also hear the results of any edits through the RIP audio output.

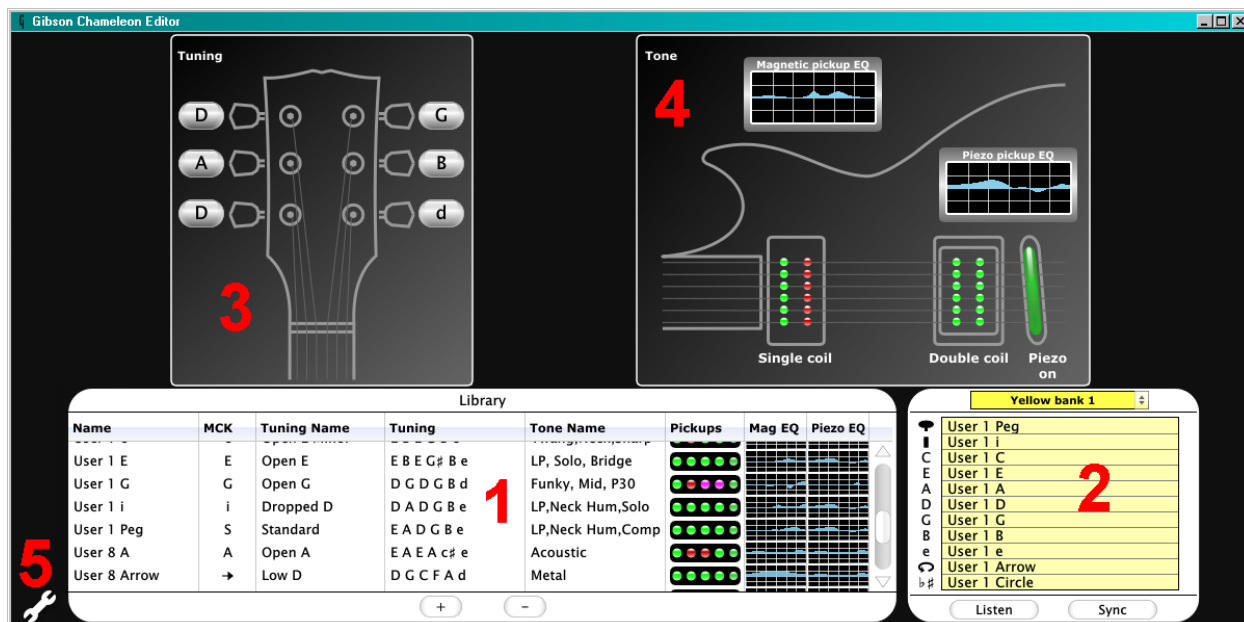
If you have not already set up and tested the RIP with Dusk Tiger, please do so before continuing. You can download the latest RIP manual and driver software from www.gibson.com/dusktigersoftware.

It Is Not Necessary to Open the RIP Console

The Gibson Chameleon Editor accesses the RIP directly. It is not necessary to open the RIP Console to use the Gibson Chameleon Editor.

Basic Program Concepts

The Gibson Chameleon Editor screen has five main sections.



1. **Library.** This is where you can create a virtually unlimited number of tone and tuning presets. You can add or delete presets, and drag them into slots in the Bank Window. As an analogy, the library is like a portable music player's music library, and the Bank Window is like a playlist of favorite sounds. Library sounds are the “source” sounds for the Bank Window.
2. **Bank Window.** You can display and edit the collection of presets in the Green, Blue, or Yellow Banks. In the Yellow Bank, Dusk Tiger offers eight banks of 11 presets each—88 presets total.
3. **Tuning Editor.** This section is for editing tunings. If the Green bank is selected for editing, the Tuning Editor will not be visible as editing the Green Bank involves only tone settings.
4. **Tone Editor.** This is where you edit pickup configurations and equalization. If the Blue Bank is selected for editing, the Tone Editor will not be visible as the Blue Bank involves only tunings. **Note:** *You can audition magnetic pickup changes in real time. When editing the Piezo settings, you need to make the change first, then click on “Listen” (as described later) to hear the results of these changes.*
5. **Preferences.** Click on the wrench button to open up the Chameleon Editor's preferences.

Chapter 2: Important General Installation Instructions (Mac and Windows)

Check the Gibson Website for Updates

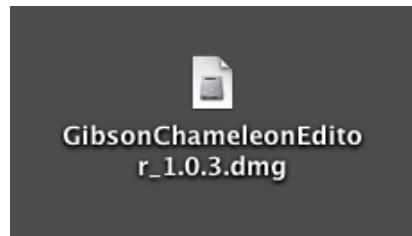
Gibson is committed to enhancing the Gibson Chameleon Editor's performance. For the latest updates, go to www.gibson.com/dusktigersoftware. This is also where you'll find updated documentation, so please download the latest version of any available manuals, documentations, and presets to make sure you're taking advantage of everything the Gibson Chameleon Editor has to offer.

Installing from a Downloaded File

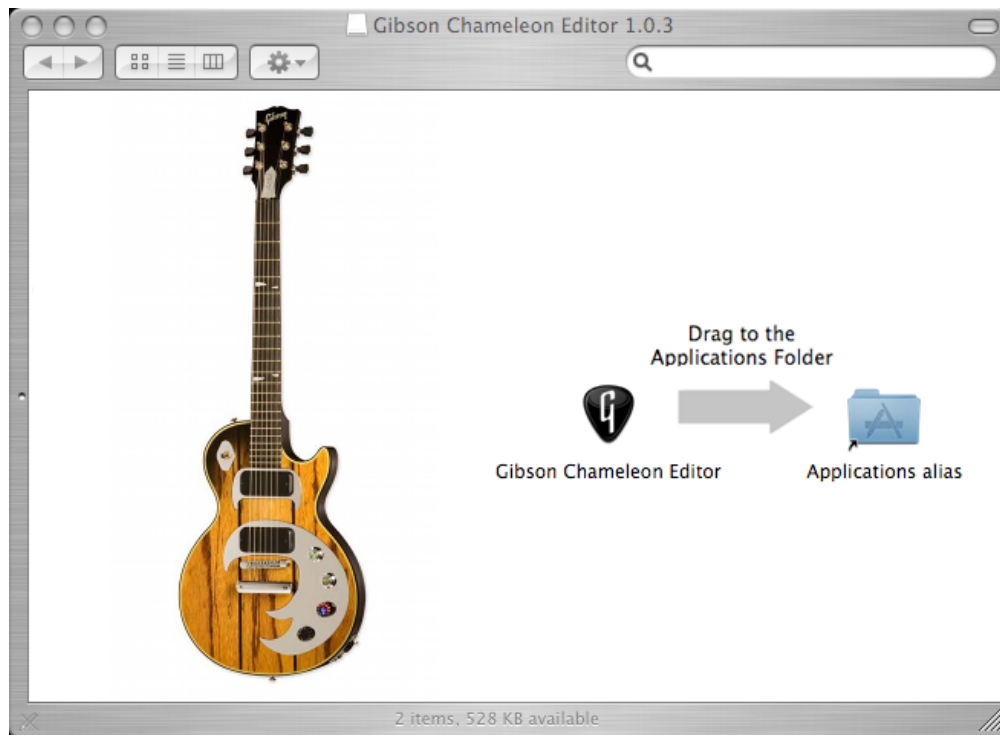
All Dusk Tiger software is available as a convenient download rather than from a DVD-ROM or other physical media. When downloading new software, the downloaded file will create an icon where you saved the software (e.g., the Windows Desktop or Mac Finder).

Chapter 3: Macintosh Installation

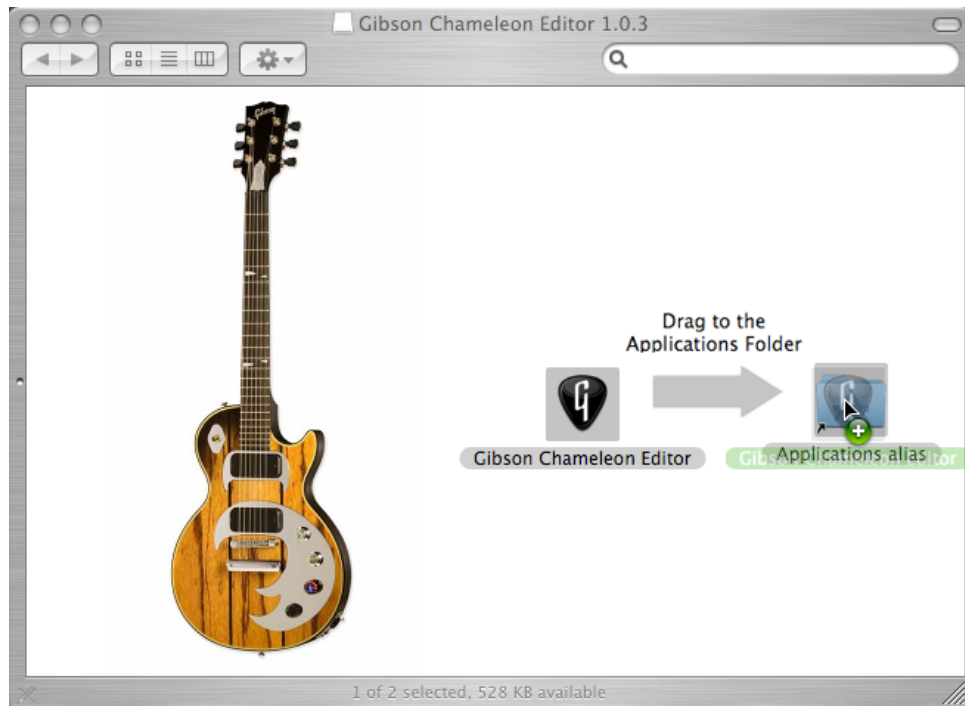
1. If a previous installation of the Gibson Chameleon Editor exists, uninstall the program by opening the Applications folder and dragging the Gibson Chameleon Editor into the trash.
2. Download the latest software for Mac from www.gibson.com/dusktigersoftware and save it to your desktop. You'll see a DMG (installation) file called GibsonChameleonEditor_[revision number].dmg.



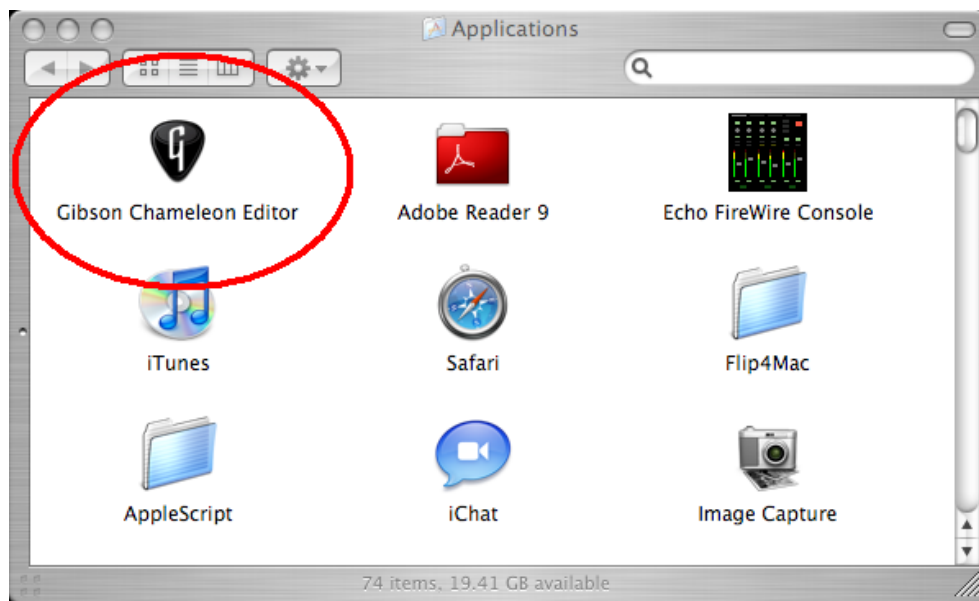
3. Double-click on the DMG file. The installation window appears.



4. In the Installation window, drag the Gibson Chameleon Editor icon into the Applications folder shortcut icon to the right of the Gibson Chameleon Editor icon. (If for any reason this doesn't work, locate the top menu bar in the Mac's Finder, click on *Go*, then select *Applications*. The Applications folder opens; drag the "Gibson Chameleon Editor" file icon into this folder.)



5. Click on Go in the top menu bar in the Mac's Finder, then select *Applications*. The Applications folder opens; double-click on the Gibson Chameleon Editor icon in the Applications folder.



6. The Gibson Chameleon Editor appears. Note that you can resize the Editor window it so that it takes up more or less space on your monitor.

Macintosh installation is now complete, and the program is open. Proceed to Chapter 5, "Connecting Dusk Tiger."

Chapter 4: Windows Installation

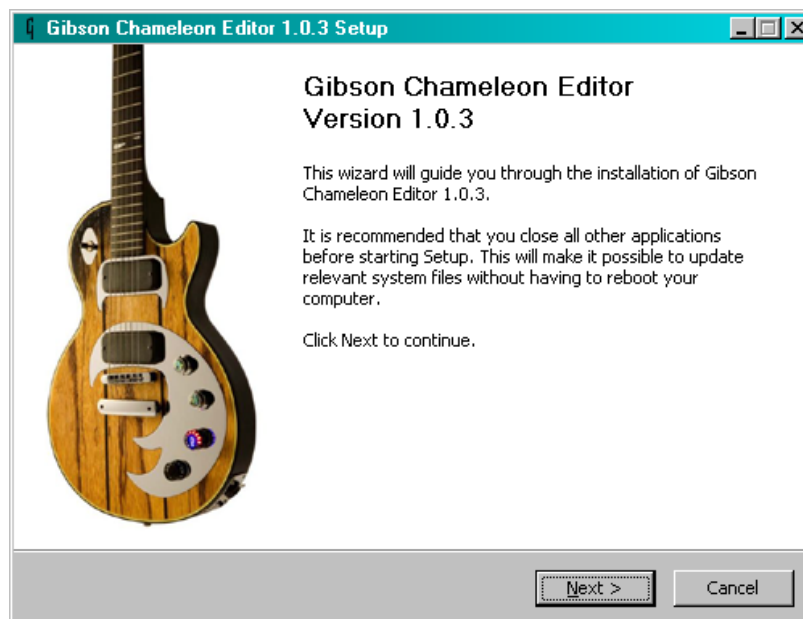
Note: If at any point during installation a “Windows Logo Testing” window appears, always click on “Continue Anyway.”

Note: The installation procedure for XP, XP 64-bit, Vista (32- or 64-bit), and Windows 7 (32- or 64-bit) is virtually identical. With 64-bit operating systems, the Gibson Chameleon Editor is installed as a 32-bit (x86) program.

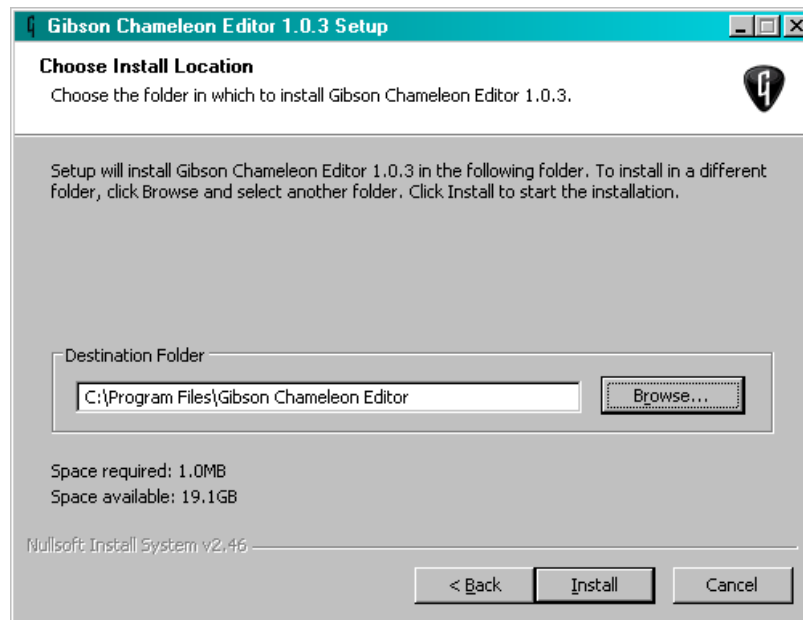
1. Log in as an Administrator—either with the “Administrator” account or any other account with administrative privileges. Otherwise, you will not be able to install the Gibson Chameleon Editor software.
2. If a previous Gibson Chameleon Editor installation exists, uninstall the program by going *Start > Programs > Gibson Chameleon Editor > Uninstall*. With Vista or Windows 7, go *Start > All Programs > Gibson Chameleon Editor > Uninstall*.
3. Download the latest Gibson Chameleon Editor software for Windows from www.gibson.com/dusktigersoftware and save it to your desktop. You'll see an icon called SetupGibsonChameleonEditor_[revision number].exe.



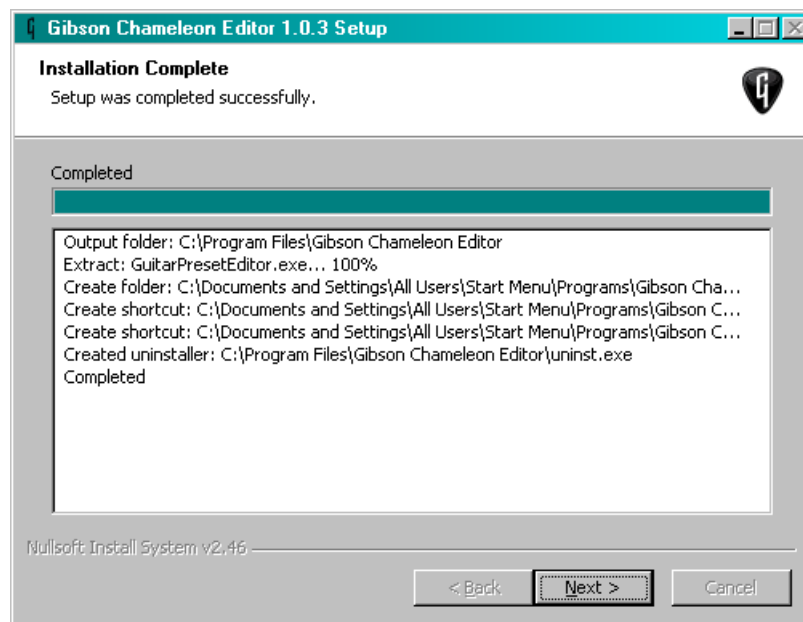
4. Double-click on the SetupGibsonChameleonEditor.exe icon.
5. When the Gibson RIP Installer screen appears, click on “Next.”



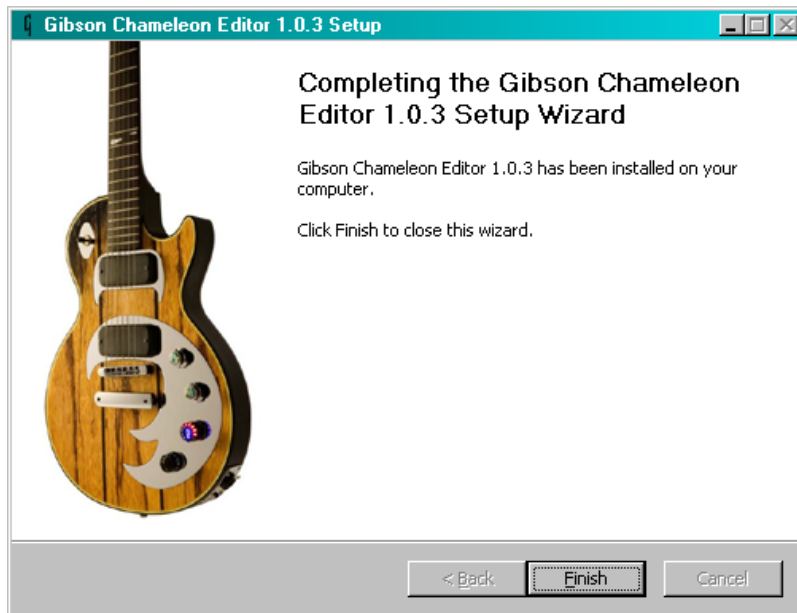
6. Choose where you want to install the Gibson Chameleon Editor. This defaults to the Program Files folder on your C: drive, but you can click the Browse button and navigate to a different folder if you want to install it elsewhere. Click on Install.



7. When installation is complete, the last line in the window says "Completed." Click on "Next."



8. To complete the software installation, click on "Finish."



9. Go *Start > Programs > Gibson Chameleon Editor* then click on *Chameleon Editor*. With Vista or Windows 7, go *Start > All Programs > Gibson Chameleon Editor* then click on *Chameleon Editor*. The program opens. Note that you can resize the Editor window it so that it takes up more or less space on your monitor.

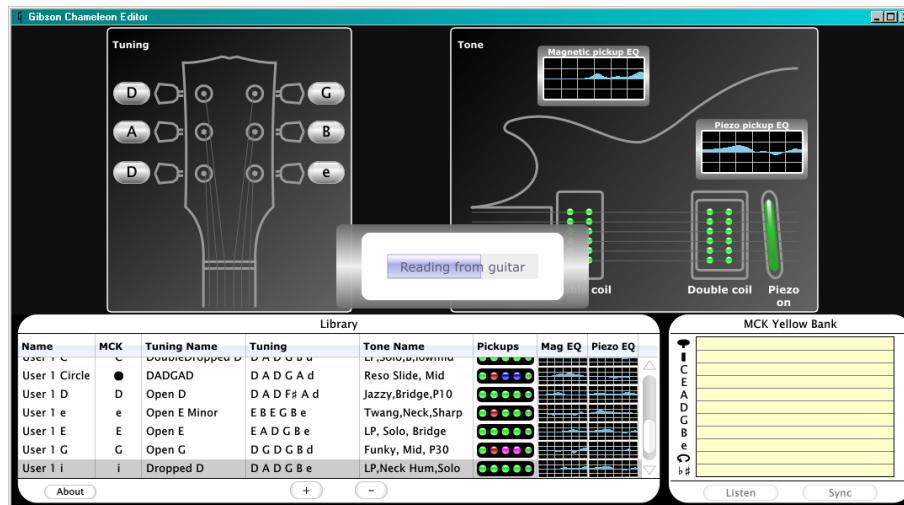
Windows installation is now complete, and the program is open. Proceed to Chapter 5, "Connecting Dusk Tiger."

Chapter 5: Connecting Dusk Tiger

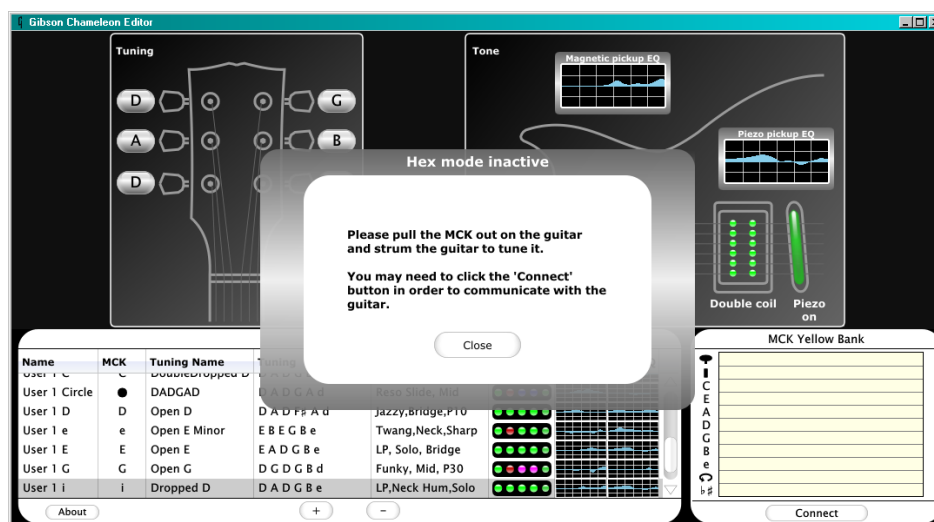
To use the Gibson Chameleon Editor, the MCK must be pulled out, and the guitar cannot be in tuning mode unless the Yellow Bank is selected.

You can either turn on Dusk Tiger then open the Gibson Chameleon Editor, or open the Gibson Chameleon Editor first then turn on Dusk Tiger—it doesn't matter. The only differences are:

- If you turn on Dusk Tiger first then open the program, it will read Dusk Tiger's settings and a window will show “Reading from Guitar.”

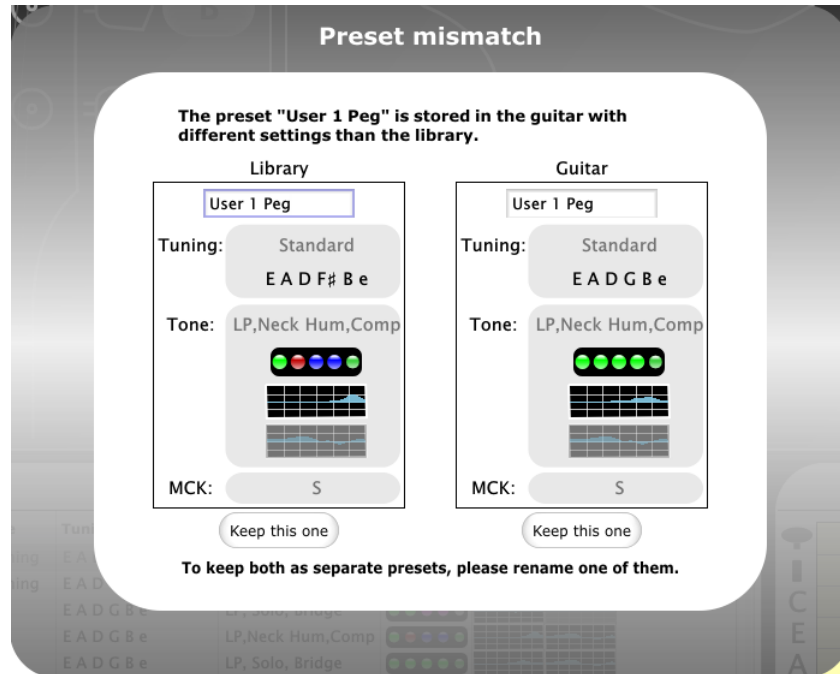


- If you open the program first, a box appears that advises you to pull the MCK out and strum Dusk Tiger in order to tune it. After tuning, if there's a Connect button in the lower right corner, click on it (if the button doesn't appear, Dusk Tiger is already connected). The connection process is complete after the Editor reads the guitar's settings.



- If after reading the Dusk Tiger presets the Chameleon Editor detects a mismatch between a Dusk Tiger preset and a preset with the same name in the library, a

Preset Mismatch window will appear. You'll have the opportunity to keep one and discard the other, or keep them both by renaming one of the presets.



You can resolve any preset mismatch between the Library and Dusk Tiger in the Preset Mismatch window.

Chapter 6: Using the Editor

The Gibson Chameleon Editor is remarkably intuitive to use. We'll start with an overview of the editing procedure, then cover specific aspects.

General Editing Procedure

- **Edit the tone**

You create a preset in the Library, then edit the Tone using the Tone editor. The Tone editing process is not tied to a particular Bank; sounds are modified in an independent memory buffer. You can audition magnetic pickup changes in real time, but when editing the Piezo settings, you need to make the edit first, then click on “Listen” (as described later) to hear the results of the edit.

- **Edit the tuning**

Modify tuning in the Tuning editor. Changes made in the Tuning editor are not transferred immediately to the guitar; you can hear the tuning only after transferring the preset to Dusk Tiger, then calling up the preset.

- **Transfer the preset to a Bank**

After creating your preset(s), drag it (or them) into the desired preset location(s) in the editor's Bank window.

- **Write edited presets to Dusk Tiger**

Click on “Sync” to write the selected Bank Window contents to Dusk Tiger, thus updating the presets stored in the guitar.

Important: *If the Bank Window shows a Connect button at any time, Dusk Tiger is no longer communicating with the Chameleon Editor. Click on Connect to resume editing.*

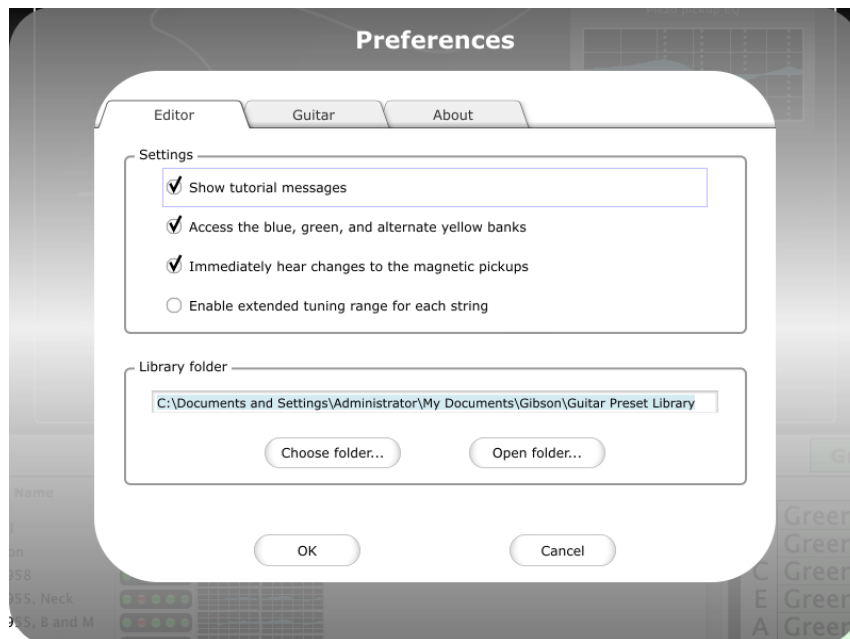
That's the basic idea; let's get into the details.

Chameleon Editor Preferences

There are three Preferences pages in the Chameleon Editor: One for the Editor itself, one for related preferences involving the Dusk Tiger guitar, and an About page.

Editor Page, Settings

The Editor page has four settings.



- **Show tutorial messages:** Check this to show tutorial hints (recommended).
- **Access the blue, green, and alternate yellow banks:** If unchecked, the Chameleon Editor will edit only the Yellow Bank, User Bank 1. If checked, the Chameleon Editor can edit settings in all Banks.
- **Immediately hear changes in the magnetic pickups:** Check to allow real-time changes when editing magnetic pickup settings (recommended).
- **Enable extended tuning range for each string:** When checked, you can transpose a string to any pitch the string can physically handle. However, this may result in string breakage or premature string aging. When unchecked (recommended), the Chameleon Editor imposes limits on how far you can transpose the string, in order to minimize the possibility of string breakage .

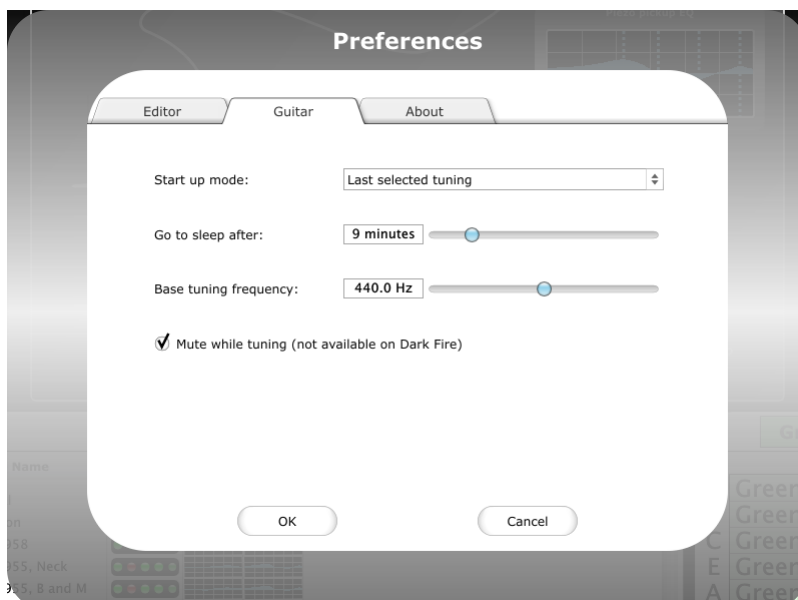
Editor Page, Library Folder

The Chameleon Editor stores its presets in a default folder, with its path shown in the top field.

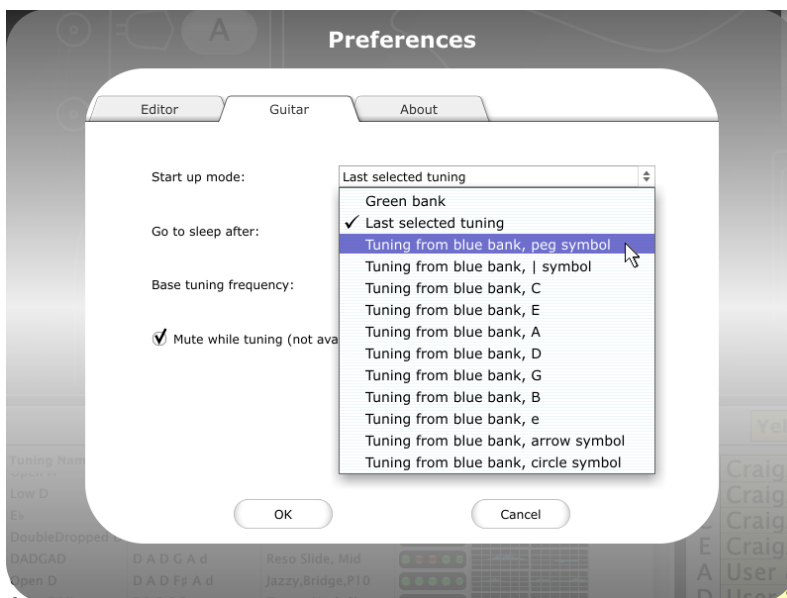
- **To change the folder from the default:** Click on Choose Folder, navigate to the folder you want to use, and select it.

- **To open the folder and view the presets stored in the Library:** Click on Open Folder. The Folder opens, as if from the Desktop or Finder. While the Library folder is open, you can drag or drag-copy the files to a different folder or to the desktop (this also makes it easy to share presets). **Note:** *With Windows or Mac computers, preset files aren't written to the Library folder until the editor closes.*

Guitar Page



- **Start up mode:** Chooses whether Dusk Tiger starts up with the Green Bank, the last selected tuning, or one of the tunings from the Blue Bank.



In this screen shot, “Tuning from Blue Bank, peg symbol” is about to be selected as the startup mode.

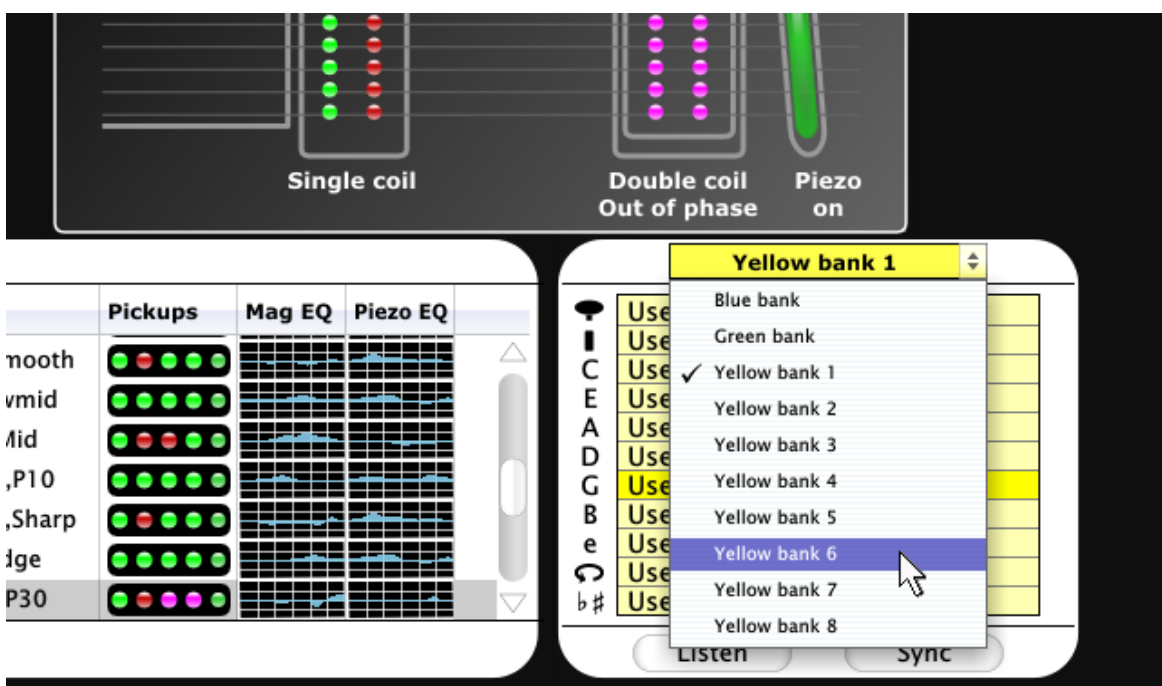
- **Go to sleep after:** Chooses the “no activity” time interval after which Dusk Tiger goes to “sleep” to save power.
- **Base tuning frequency:** Sets the A tuning reference from 430.0 to 449.9Hz (default is 440Hz).
- **Mute while tuning:** Check to mute Dusk Tiger's audio outputs while tuning, or leave unchecked to hear the sound of the strings getting in tune. Note: This setting is not applicable to the Dark Fire guitar.

About Page

This page indicates the software revision number and copyright notice.

Bank Selection

To select a Bank in the Bank Window, click on the double arrows to the right of the Bank name field, scroll down to the desired Bank, then click on it.

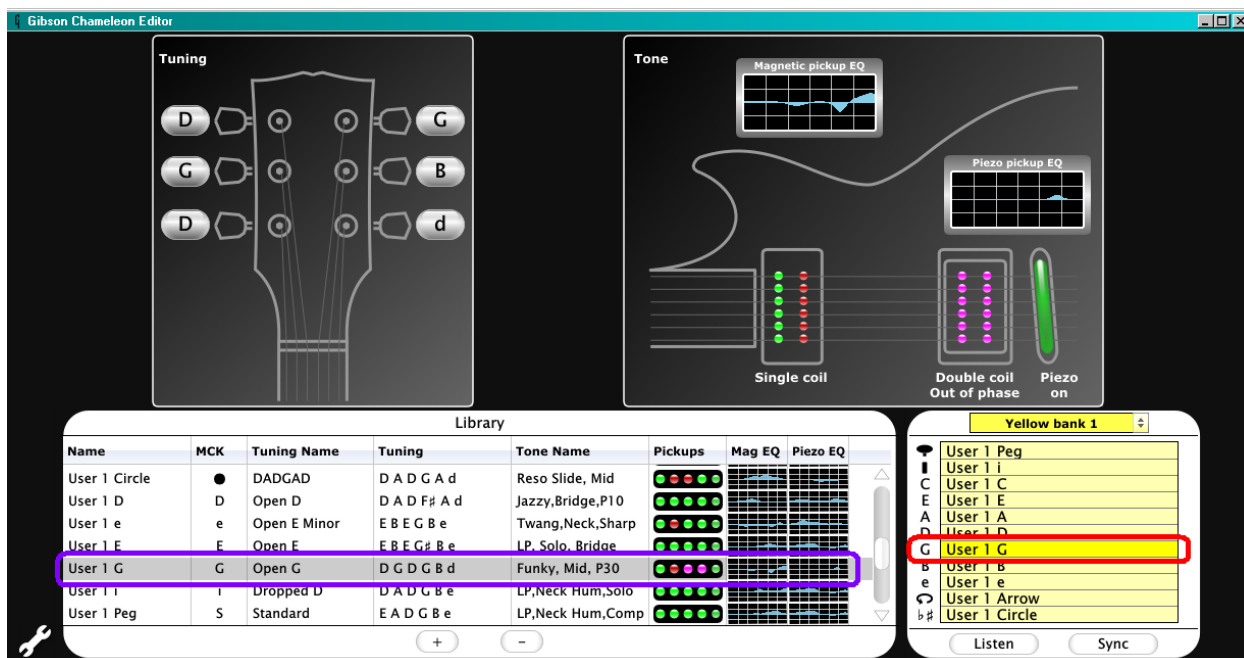


In this screen shot, Yellow Bank 1 is currently active, but Yellow Bank 6 is about to be selected.

Audition a Preset Tone

You can audition a preset Tone while in the Green or Yellow bank. **Important:** *If the preset includes the Piezo pickup, the Piezo blend knob in the pickup switch must be turned up to blend the Piezo sound in with the overall output.*

1. To select a preset for auditioning, click anywhere on a preset's line in the Library, or within the shaded area in the Bank window (the symbols to the left of the shaded area are for display only). Selecting a preset in the Bank window also selects the corresponding Library “source” preset automatically, and vice-versa. If you select a Library preset that's in the Bank shown in the Bank Window, the corresponding Bank preset will be highlighted.



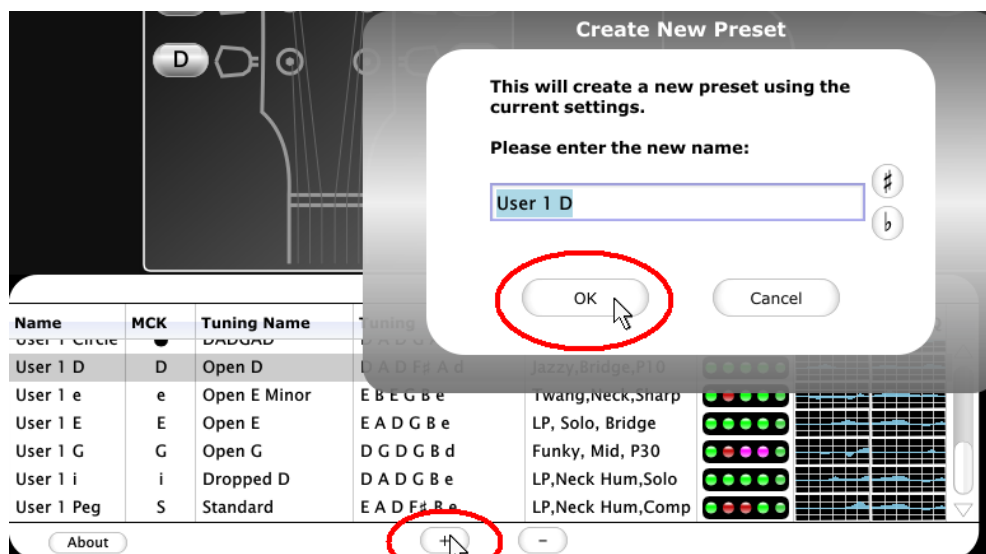
Clicking on a preset location (outlined in red) in the Bank window calls up the source preset (outlined in violet) in the Library.

2. Click on the Listen button. If the Listen button does not appear, click on the Connect button to re-establish communications with Dusk Tiger. **Note:** If the Piezo pickup is turned off in the preset, it is not necessary to click on Listen—you can audition a preset simply by clicking on it. However, Dusk Tiger must still connect to the Chameleon Editor.
3. A window appears that says “Play the guitar and see if you like this tone.” After auditioning, click on Continue to choose a different preset, or edit the preset.

Create a New Preset or Edit an Existing Preset

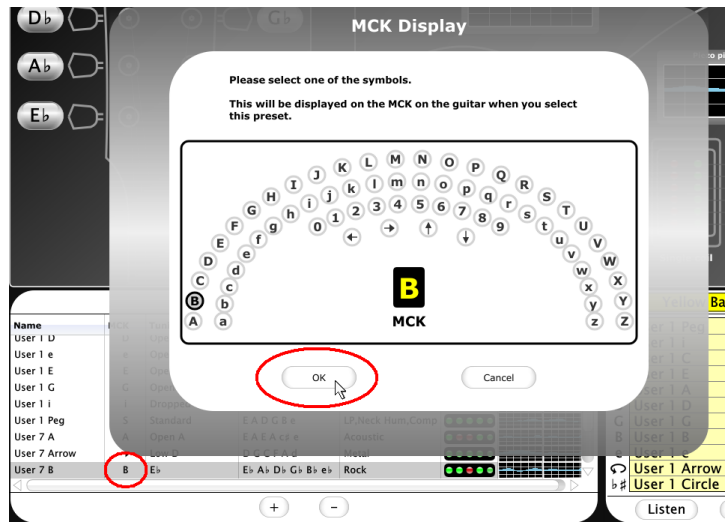
You do not need to be in any particular Bank to create a preset. You can create the Preset in the Gibson Chameleon Editor, then send the preset to a Bank Window preset location.

1. To *create* a new preset, click on the + sign at the bottom of the Library. To *edit* an existing preset, click on the preset, then skip to Step 4.



Click on the (+) button to create a new preset; a dialog box opens up where you can name the preset. Or, click on cancel if you change your mind. After naming the preset, click on OK.

2. Enter a name for the preset when the Create New Preset screen appears, then click on OK. Note that you can add a flat or sharp symbol by clicking on the appropriate button to the right of the Create New Preset window.
3. This creates a preset with the same settings as whatever preset was previously highlighted in the library. *Tip:* This is very helpful when you want to create a variation on a preset—select the appropriate source preset first before creating a new preset.
4. The MCK can associate a particular character or number with this preset. To do this, double-click on the Library's MCK field, enter the desired number or character, then click on OK.



Double-clicking on the MCK field opens a window where you can enter the desired MCK character; if you change your mind, click on Cancel. Dialog boxes for other parameters work similarly.

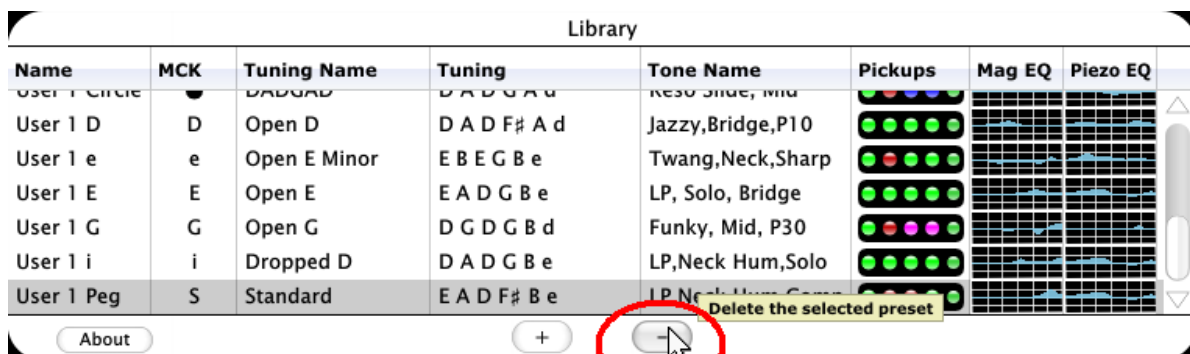
5. To give the selected tuning a name, double-click in the Tuning Name field. Typical examples would be “Standard,” “Dropped D,” etc.
6. To change the Tone name, double-click in the Tone Name field and type in a brief description.

Note: In the Library window, the Tuning, Pickups, Mag EQ, and Piezo EQ fields are for display only. They are modified based on selections you make in the Tuning and Tone Editors.

Delete a Preset

To delete a preset:

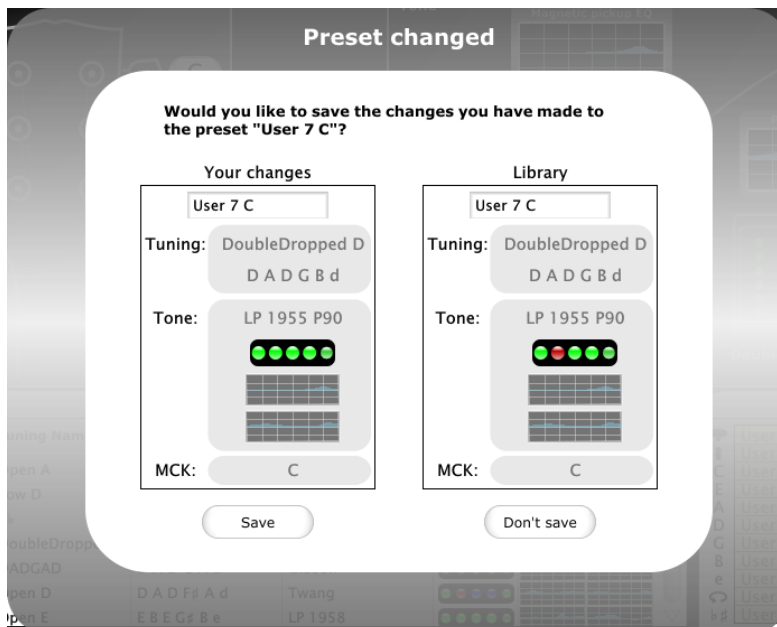
1. In the Library screen, click on the preset you want to delete.
2. Click on the (-) button.



3. A warning screen appears that asks if you want to Delete or Keep the preset. If you're sure you want to delete the preset, click on Delete.
4. The preset is deleted.

Save a Preset

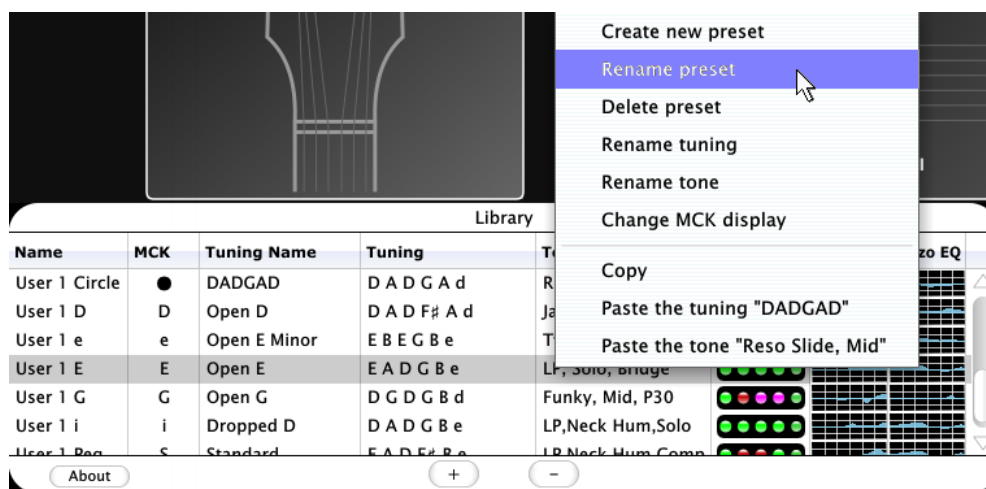
The current preset is saved automatically as soon as you select a different preset. If you changed the current preset compared to when you opened it, the Preset Changed window appears. This lets you save any changes you made to the preset, or keep the original version as it exists in the Library.



The Preset Changed window lets you keep or discard preset changes you've made.

Context Menu Functions and Shortcuts

To call up a context menu with shortcuts to several functions, right-click (Windows) or Cmd-click (Mac) on a preset in either the Library or Bank Window. A context menu similar to the following appears.

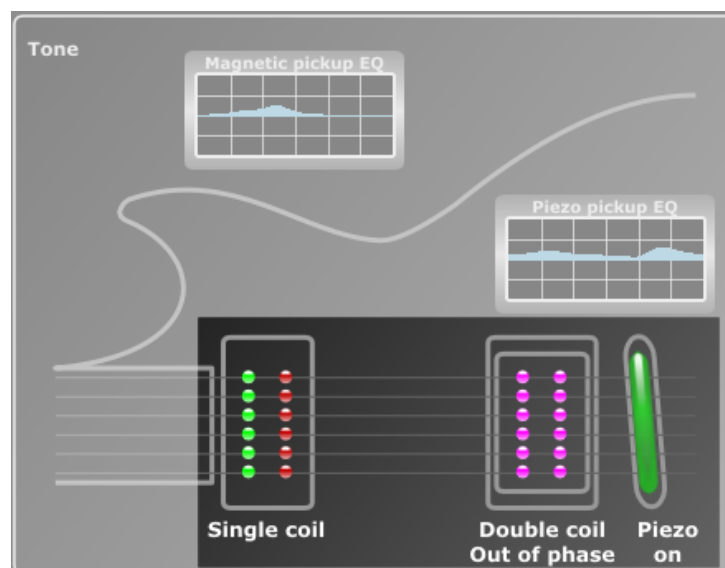


Here are your available options.

- **Create new preset.** This is the same as clicking on the (+) button, and creates a new preset.
- **Rename preset.** Lets you edit the Name field.
- **Delete preset.** This is the same as clicking on the (-) button, and deletes the selected preset.
- **Rename tuning.** Lets you rename the Tuning Name field.
- **Rename tone.** Lets you rename the Tone Name field.
- **Change MCK Display.** Lets you change the MCK display character field.
- **Copy.** Copies data from the selected preset, and places it in your computer's clipboard.
- **Paste the tuning [name of tuning].** This appears only if you have copied data from a preset, and lets you paste the clipboard's Tuning data into the selected preset's Tuning field.
- **Paste the tone [name of tone].** This appears only if you have copied data from a preset, and lets you paste the clipboard's Tone data (including pickup configuration and EQ settings) into the selected preset's Tone field.

Program the Desired Pickup Configuration

1. Click on the Neck pickup to toggle between Single Coil and Double Coil mode. Remember to click on “Listen” every time you make a change to hear the results of the change.



Clicking within the pickups allows you to choose different pickup configurations.

2. Click on the Bridge pickup to choose the desired configuration. Each click cycles through the four available options: Double Coil Parallel, Single Coil, Double Coil Out of Phase, and Double Coil. Note that the graphic in the Library's Pickups field changes to indicate the current configuration.
3. Click on the Piezo pickup to toggle between piezo pickup on or off.

Editing Basics

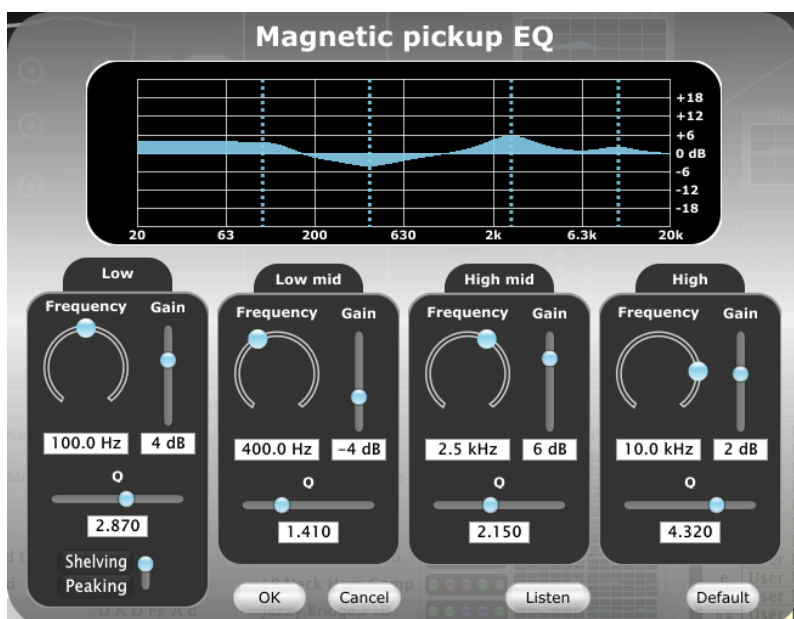
The procedure for editing the magnetic pickups is different from the procedure for editing the Piezo pickup.

If “Immediately hear changes to the magnetic pickups” is checked in the Preferences section (Editor tab), then you'll hear—in real time—the results of any editing operations involving the magnetic pickups. If unchecked, you'll need to click on the Listen button to hear the results of any edit.

With the Piezo pickup, you cannot hear changes in real time. Whenever you edit the Piezo settings, you'll need to click on the Listen button to hear the results.

Program the Magnetic Pickup EQ

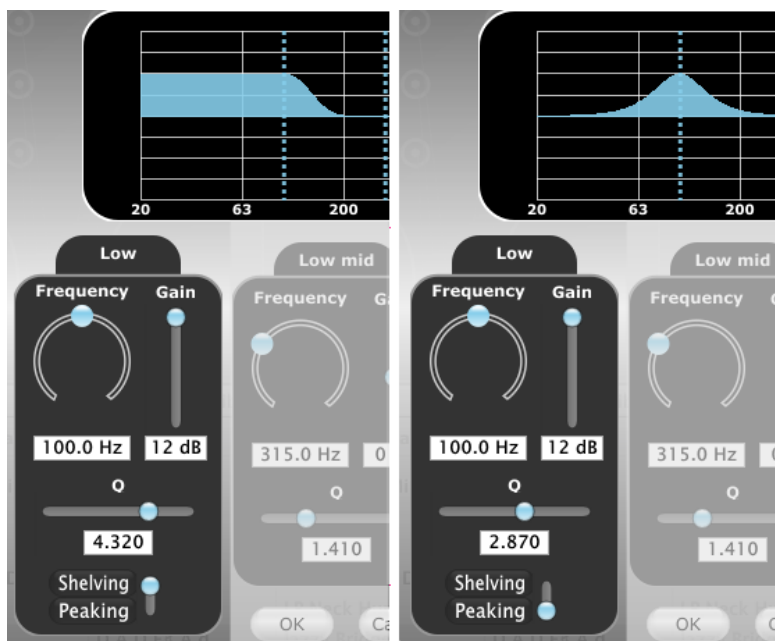
Click on the Magnetic pickup EQ graphic above the Neck pickup to adjust the magnetic pickup EQ, or the Piezo pickup EQ graphic above the piezo pickup to edit the piezo EQ. In either case, a window pops up with the full complement of pickup EQ controls.



The EQ has four bands: Low, Low Mid, High Mid, and High. Each has a Frequency parameter, Gain parameter that can boost or cut response, and Q (resonance) parameter.

- Frequency determines the frequency at which boosting or cutting occurs.
- Gain sets the amount of boost or cut, from -12 to +12dB.
- Q determines the overall range of frequencies affected by the boost or cut. Lower settings cover a wider range of frequencies, where the Frequency parameter sets the center frequency; higher settings affect a narrower range of frequencies.

The Low band offers an additional Shelving or Peaking switch.



The shelving response, set for a boost, is toward the left; the peak response (also showing a boost) is toward the right.

- Shelving response boosts or cuts bass starting at the specified Frequency, and extending downward into the bass range. After a certain amount of boost, the response levels off (hence the comparison to a shelf).
- Peak response is like the other three bands, and boosts or cut at a specific frequency.

The buttons across the bottom provide the following functions.

OK. Click on this when the EQ is adjusted as desired. This closes the EQ editing window.

Cancel. Cancels any changes you made and closes the EQ editing window.

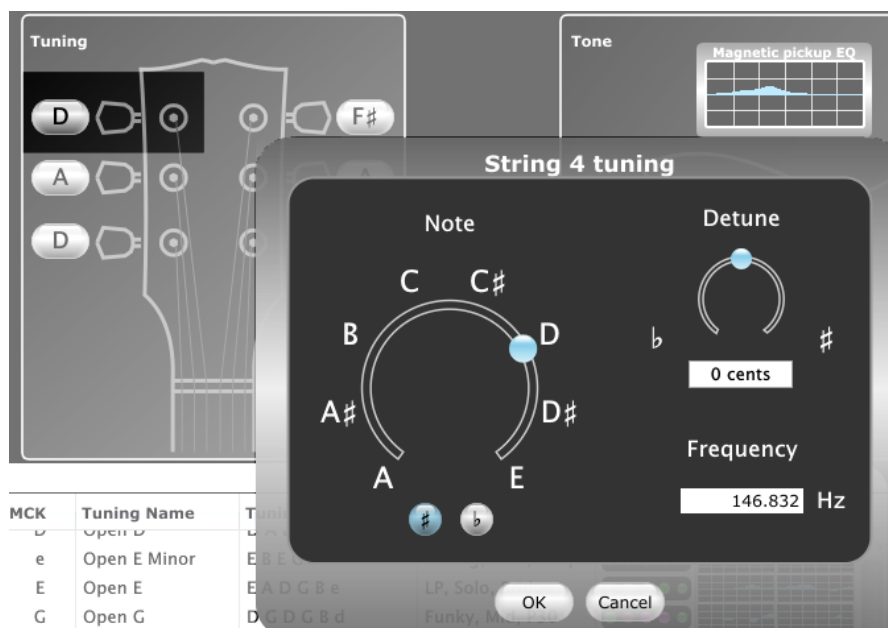
Listen. When editing the Piezo pickup EQ, click this after any parameter changes to hear the results of those changes.

Default. Click this to set Frequency to the middle of its frequency range, Gain to 0, Q to the broadest response, and Shelving/Peaking to Peaking.

With the magnetic pickups, you'll hear the results of any edits in real if "Immediately hear changes to the magnetic pickups" is checked in the Preferences section (Editor tab).

Program the Tuning

Click on the tuning indicator next to the appropriate tuning peg for the string you want to edit. A pop-up window appears for that string.



As an example, the 4th string can be set to any note in the range of A below D to E above D.

There are four controls:

Note. This chooses the note, from five semitones below standard pitch to two semitones above. You can get around any note range limitations by checking “Enable extended tuning range for each string” in the Editor tab under Preferences, but this is not recommended as tuning a string outside its recommended range may lead to string breakage.

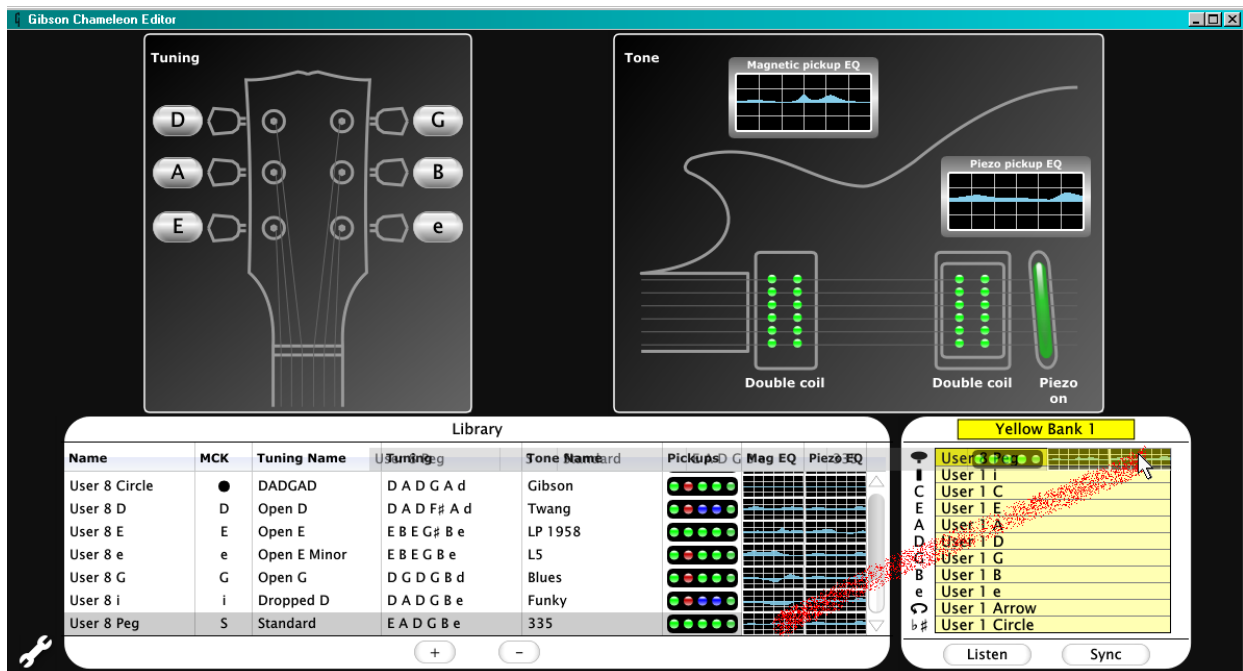
Note display buttons. The buttons below the Note parameter can display notes as either sharps or flats.

Detune. Fine-tunes the note in one cent steps, from -50 cents to +50 cents.

Frequency. This has two purposes: Provide a readout of the current tuning in Hertz, and offer a way to enter frequencies directly, which can give even finer resolution than detuning in cents. The maximum and minimum frequencies correspond to the maximum and minimum frequencies you can enter using the Note and Detune controls.

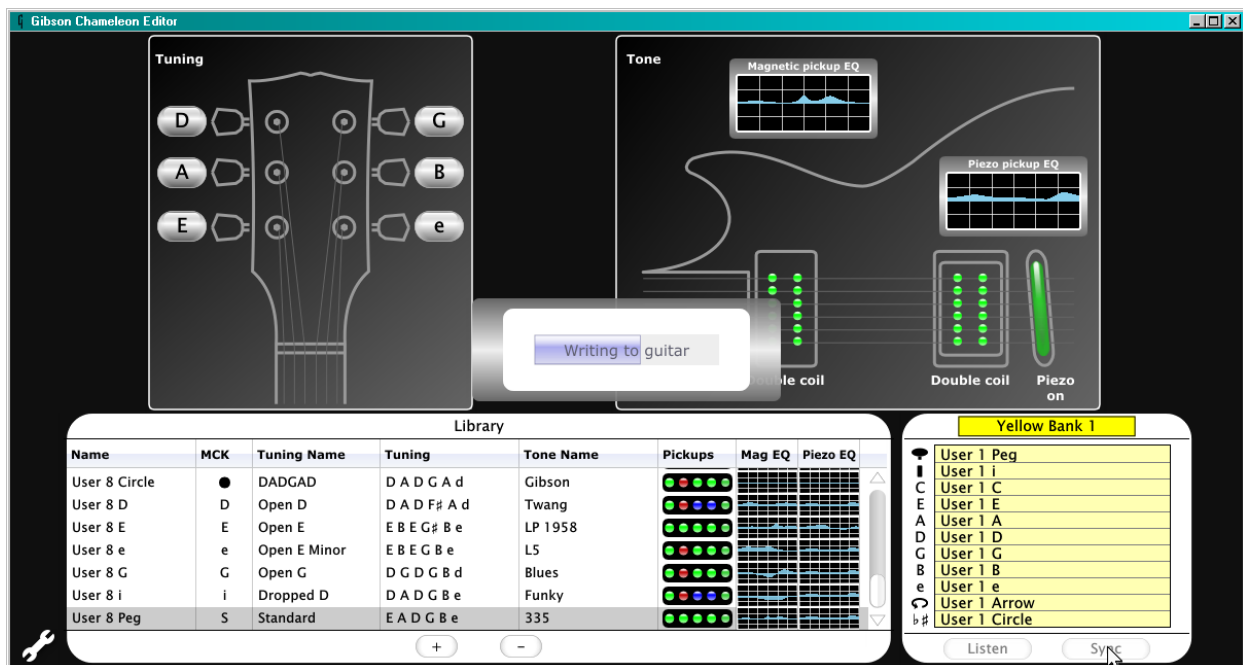
Create a Bank of Custom Presets

1. After creating a preset, click on any field in the preset, then drag the preset into the desired Bank Window preset location. For example, the slots in the Yellow Bank could correspond to a set list, so you can move easily from one preset to another. **Note:** Presets are stored in the location */Documents/Gibson/Guitar Preset Library*. You can back up these presets, as well as share them with other Dusk Tiger owners. For more information, see the section on Preferences.



The bottom preset in the Library window is being dragged to the first Yellow Bank preset location.

2. Continue dragging your custom Presets into the selected Bank until it's populated with your presets of choice.
3. To write the current contents of the Bank Windows to Dusk Tiger, click on the Sync button. The screen will show "Writing to Guitar."



Selecting a Yellow Bank User Bank

The Yellow Bank presets will likely be the ones you customize the most, with the Green and Blue Banks being “standards.” To select a particular Yellow Bank User Bank:

1. Choose the Red Bank by initiating a series of brief, successive pushes on Enter until the Red Bank appears.
2. While in the Red Bank, rotate the MCK to the **G** position.
3. Push Enter for more than one second; the Display Matrix shows the currently selected User Bank in yellow.
4. Rotate the MCK to select the desired User Bank (1-8). The outer LED that corresponds to the bank you've selected will shine blue. If you turn the MCK to an invalid position (i.e., above 8), the Display Matrix shows “X.”
5. After selecting the desired User Bank, push Enter briefly to activate the User Bank. The Display Matrix shows the User Bank number in green briefly before exiting to the Red Bank.

Now when you select the Yellow Bank, the outer LED that corresponds to the selected User Bank will shine yellow, and remain selected until you repeat the above procedure to select a different User Bank.

Selecting a Yellow Bank Custom Preset

1. If the Yellow Bank was not already selected on Dusk Tiger, select it by giving a series of quick presses on the middle of the MCK until the Yellow Bank appears (the order is Green – Blue – Yellow – Red – Green – Blue – etc.).
2. Rotate the MCK to choose the desired preset.

Appendix A: Gibson Chameleon Editor Change Log

Version 1.0.9

- Fixed a rare bug that occurred with some MacBooks when starting up the editor with the guitar switched off.
- Fixed a bug with the preferences dialog not correctly updating the settings.
- Fixed a bug that occurred if hex mode was switched off with the preferences dialog open.
- Added a warning message to the user if that occurs.

Version 1.0.8

Removed the circle and square symbols from the MCK character display dialog, as the current guitar firmware does not support those

Version 1.0.7

- Added guitar preferences interface for configuring the guitar startup mode, how quickly the guitar goes to sleep, the tuning calibration frequency (A440Hz), and whether or not the guitar mutes while tuning.
- Added option to use the full tuning range for each string.
- Added a warning that it's possible to break strings by tuning them too high.
- Dark Fire guitars are now automatically updated to firmware 3.0.2.
- Fixed real-time control for the magnetic pickup coil switching.
- Fixed a memory leak.
- Fixed a bug where the lower right bank panel would not redraw correctly.

Version 1.0.6

- Users can now access the Green, Blue, and all Yellow Banks.
- Added real-time audition for magnetic pickup configurations and EQ edits.
- If you change a preset, you can see the differences compared to the original preset before you save the changes.
- You can now choose the arrow, circle, and square symbols for the MCK display.
- User preferences dialog—turn advanced mode on and off, turn real-time control on and off, and set the path for the library files.
- Faster shutdown—only the presets that have changed are written to disk.

Version 1.0.5

Automatic firmware update for Dark Fire.

Version 1.0.4

Minor bug fixes.

Version 1.0.2 and 1.0.3

Various fixes for handling note values at the extreme ends of the tuning range for each string.