

Obsidian Launcher

You can download the NEWEST version of the Obsidian Launcher, it can work with the V3 and V4 soundboards, the Emerald Driver, and the Diamond Controller all in one location.

<http://www.saberforum.com/index.php?topic=34473.0>

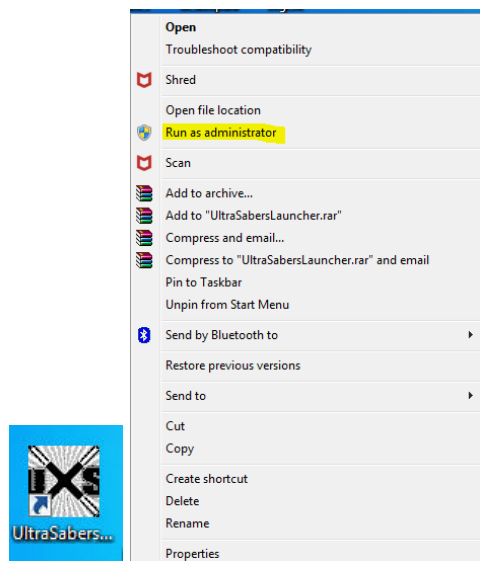
Please make sure to update the Launcher to the most current version. To update, close the UltraSabers Launcher, run AS ADMINISTRATOR the MaintenanceTool.exe and choose update. You can find the maintenance tool in the START menu (or in the installation folder).

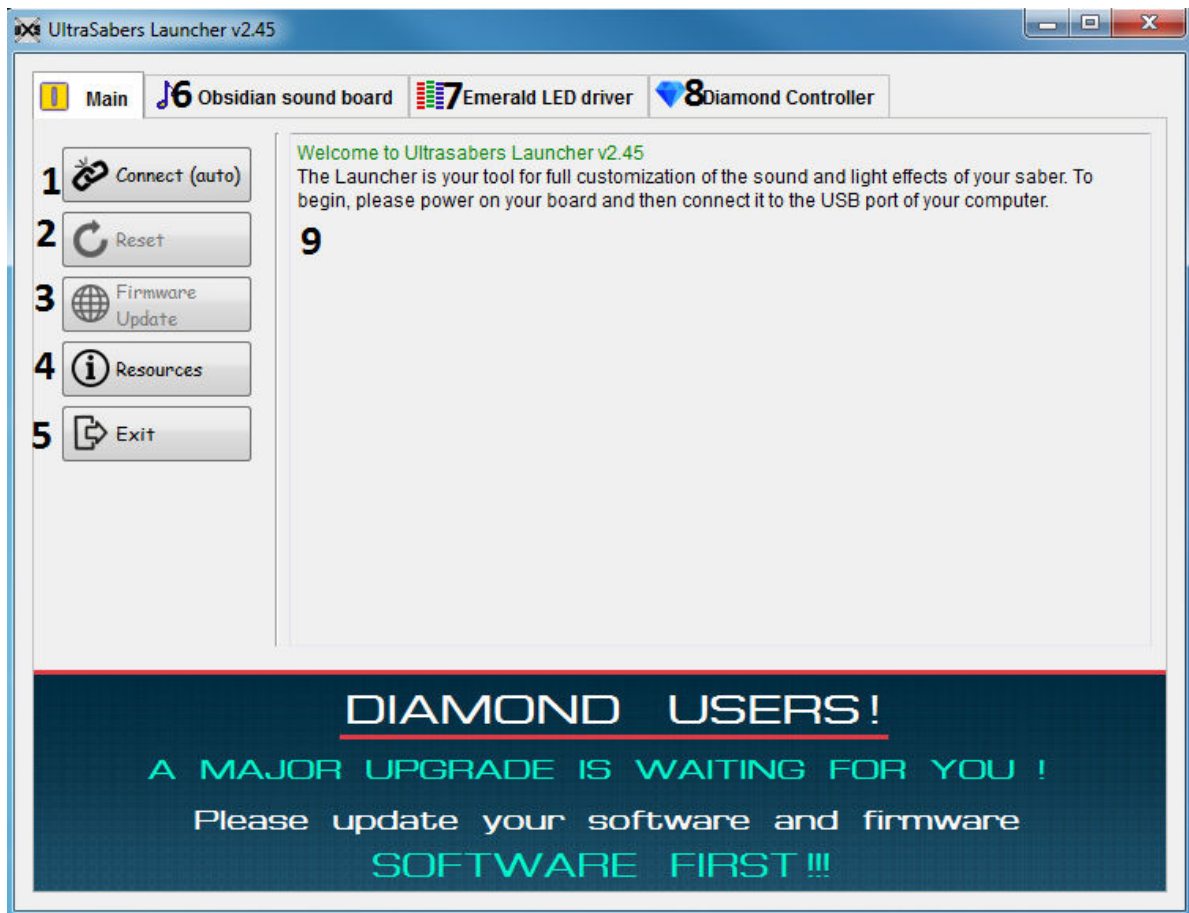
C:\Program Files (x86)\UltraSabers\UltraSabers_Launcher\MaintenanceTool.exe (Application)

Before you get started make sure you have:

1. Batteries fully charged
2. A MINI USB DATA cable, it must be a cable that can sync the data between the board in the saber and the computer
3. Make sure you are using a 2.0 USB port or a 2.0 USB hub (especially with windows 10). The 2.0 USB ports is just the USB symbol, the 3.0 USB port has the letters "SS" in front of the USB symbol.

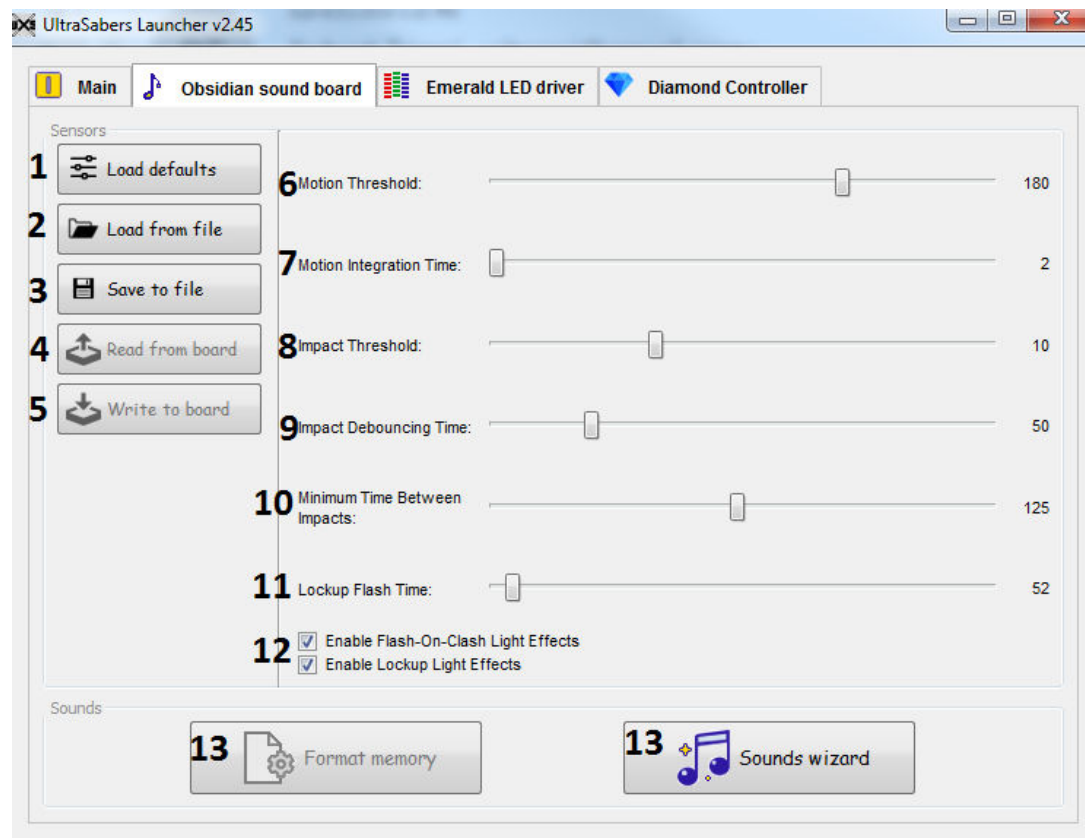
To connect the saber to the Obsidian Launcher, open the launcher by right clicking on the Launcher Icon





1. This is the Connect and Disconnect Button once the saber is on and plugged into the saber. When you have completed making changes, remember to use the disconnect button rather than just unplugging the saber.
2. Reset: Manually reset the saber (normally not required)
3. When there are firmware updates available, this will be lit up and can be clicked to get the latest firmware.
4. Resources has datasheets and information regarding the Diamond Controller (videos and user manual).
5. The exit closes the Obsidian Launcher.
6. This Obsidian Sound Board tab allows you to make changes to the hardware parameters and the sounds installed on your saber.
7. The Emerald LED driver tab allows you to change the blade color, flash on clash color (if you have sound), and pulse color.
8. Diamond Controller tab allows you to completely control the hardware parameters, colors and sound on your saber.
9. This window notifies you of System Messages: connected, write to board, and errors.

Obsidian Soundboard



1. Load Defaults, loads the hardware parameters defaults.
2. Load from File: Will load the Complete defaults sounds and settings from a saved location on your computer.
3. Save to File: Allows you to save your default setting to file to have a backup or if you want to switch between settings.
4. Read from Board: Gives an analysis of the board, for troubleshooting
5. Write to board: When you make changes to the settings or sounds on your saber, you need to click on write to board to make the changes to the saber.
6. Motion Threshold: The sensitivity of the Soundboard to swing motion (the higher the threshold the less sensitive the device will be).
7. Motion Integration Time: A higher value of the integration time will decrease sensitivity, but at the same time decrease the chance of fake motion triggers.
8. Impact Threshold: The sensitivity of the Soundboard to impact (the higher the threshold the less sensitive the device will be).
9. A higher value of the debouncing time will decrease the sensitivity, but at the same time decreases the chance of fake impact triggers.

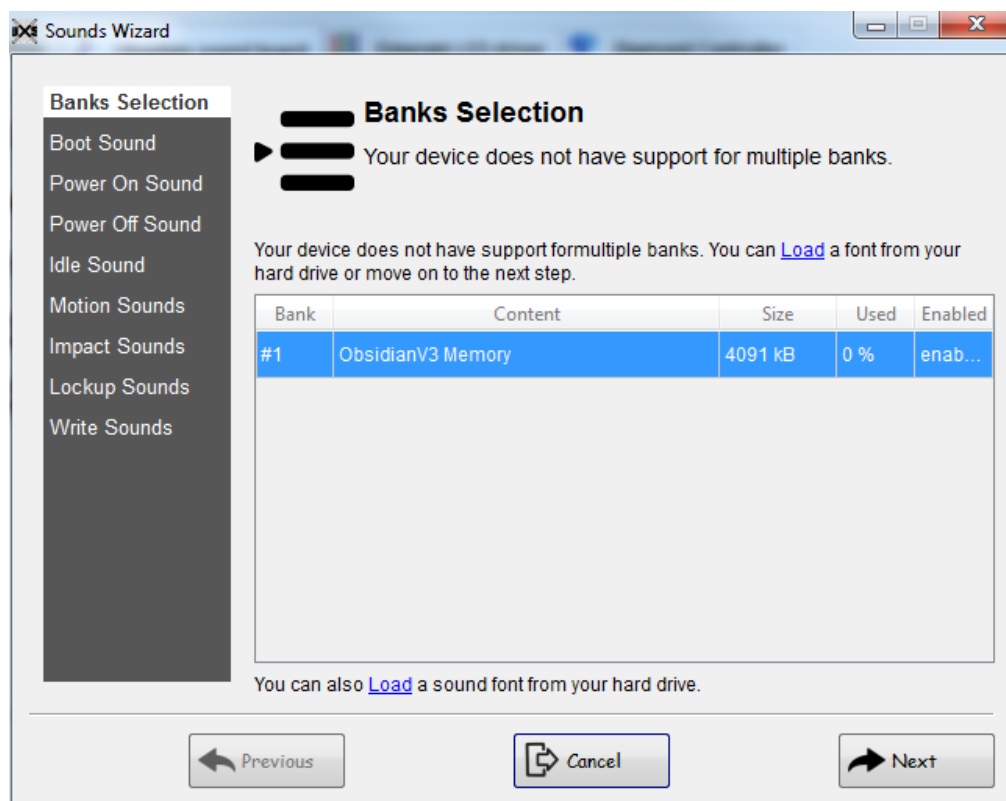
10. Minimum Time between Impacts: Once an impact is detected the board will disable the impact detection to avoid repeat triggers. This parameter sets the disable time.
11. Lock Up Flash Time: This is the On and Off time (in milliseconds) of the blinking triggered by an impact detection or the Lockup effect.
- 12: Enable Flash on Clash and Lockup Light Effects: If the saber is wired to have the Flash on Clash effect, you can enable and disable the Flash on Clash and Lockup Light effects.
13. Buttons to Format Memory and Sounds Wizard: see next section.

Format Memory

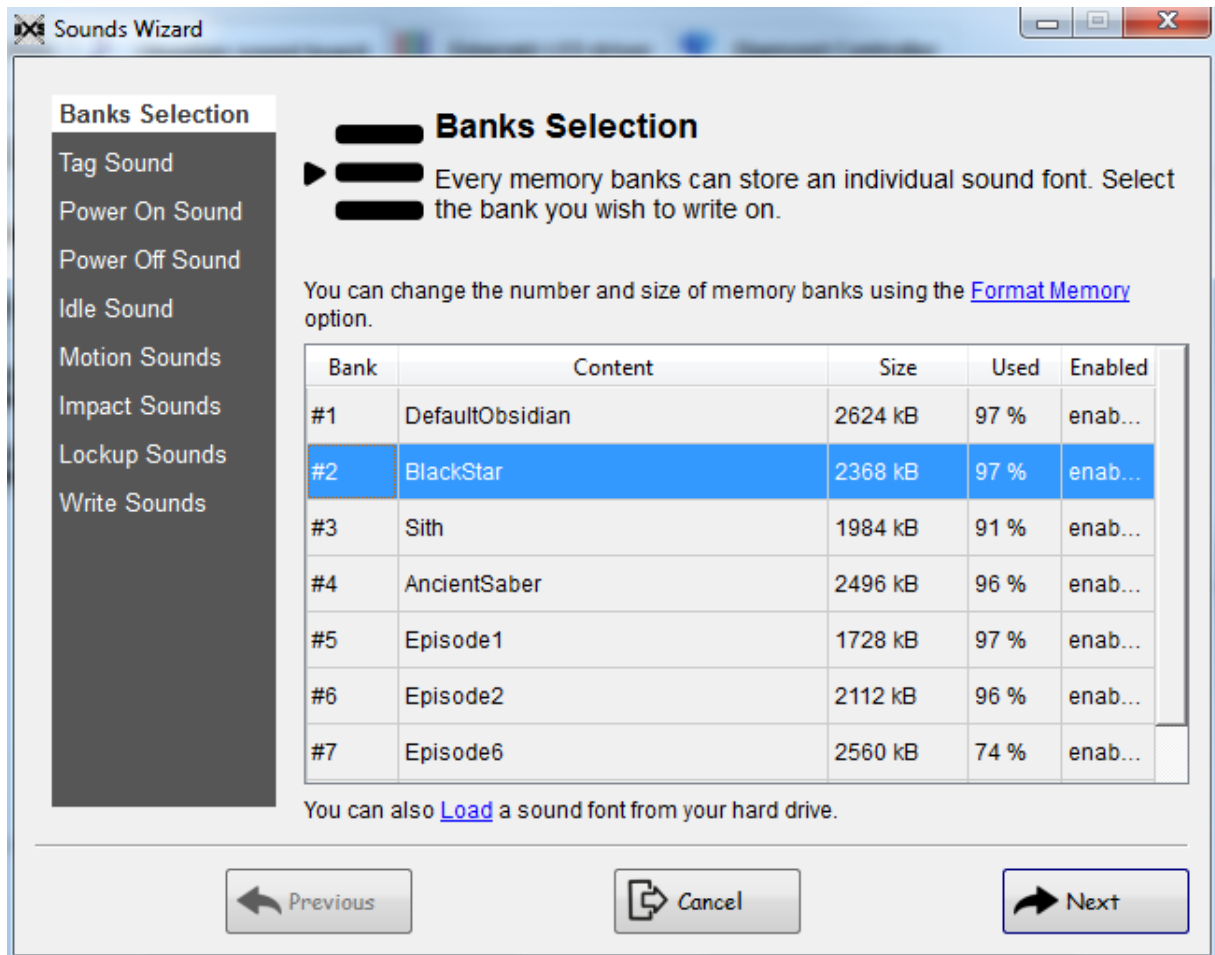
The Format Memory button clears the files written to board, you will have to reload defaults or add new sound files.

Sounds Wizard

V3 Soundboard (Bottom USB Port)



V4 Soundboard (Bottom USB Port)



The Banks Selection shows you the content installed on the board.

Since this comes as a saved file, each one of the options Tag, Power on, Power off, Idle, Motion, Impact, Lockup will show as empty.

The Format memory link on the V4 allows you to clear the board and change the number and size of Memory Banks.

The Load link on the V3 or V4 soundboard allows you to load a .lcsfgx file of a complete soundfont.

The Next button moves to the next sound in the list.

The Previous button allows you to move back to the previous sound in the list.

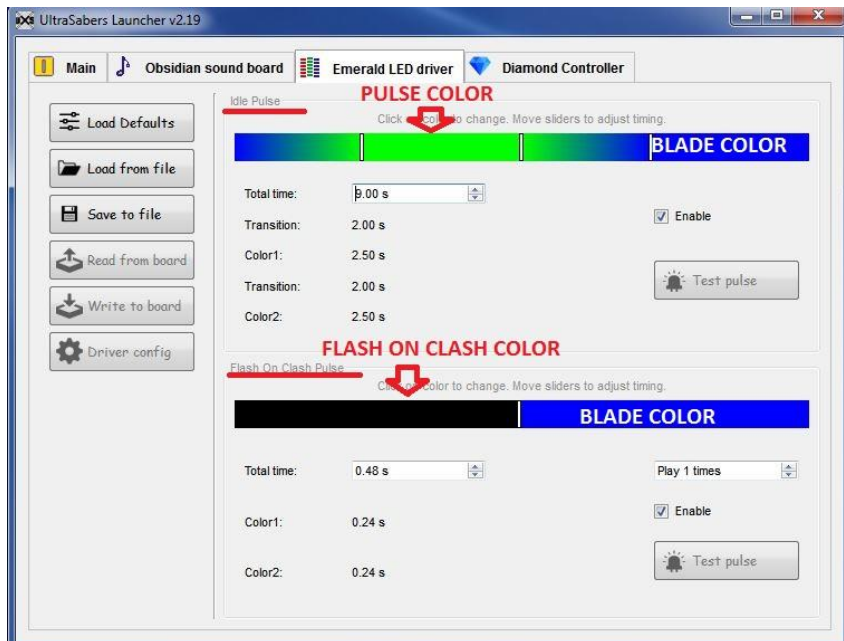
There is an option to write sounds to board last on the list.

How to upload new or restore the soundfonts

- 1) Download a sound font set of your choice (<https://www.ultrasabers.com/Sound-Font-p/soundfont-manual.htm> for the Default Ultrasabers fonts or custom-made ones from the forum
- 2) **Unzip** the downloaded sound font packages to a folder of your choice.
- 3) Turn your saber on.
- 4) Plug it into your PC (use only USB 2.0 ports!).
- 5) Wait until the driver is installed (only important when you connect it the very first time).
- 6) Run the launcher with Administrator rights (right-click -> Run as Administrator) (IMPORTANT).
- 7) Switch to the Obsidian sound board tab in the launcher.
- 8) Open the Sound Wizard.
- 9) Choose a bank.
- 10) Look for the folder you saved the unzipped sound fonts to.
- 11) Insert the appropriate files in the different sections, i.e. tag/boot sounds in the Tag/Boot Sounds section, lockup sounds in the Lockup Sounds section etc.
- 12) Click on "Write Sounds" on the left.
- 13) Save the different fonts on your HDD as a backup so that you don't have to do the whole procedure again. If you ever need to upload them again, you just load your compilations to the banks (.lcsfgx), not every single file (wav or lsu).
- 14) Click "Write Sounds" at the bottom.
- 15) Wait for the files to be written to the board.
- 16) Close the Sound Wizard.
- 17) Go back to the Main tab in the launcher and click "Disconnect".
- 18) Unplug your saber.

That would be the right and approved order for uploading and/or changing the sound font on the Obsidian v3 and v4 sound boards. Be extra careful with steps 3, 4, and 5 - follow exactly that order, otherwise you may have severe connection and board issues! The same goes for 17 and 18 - don't unplug before you disconnected the saber for the same reasons!

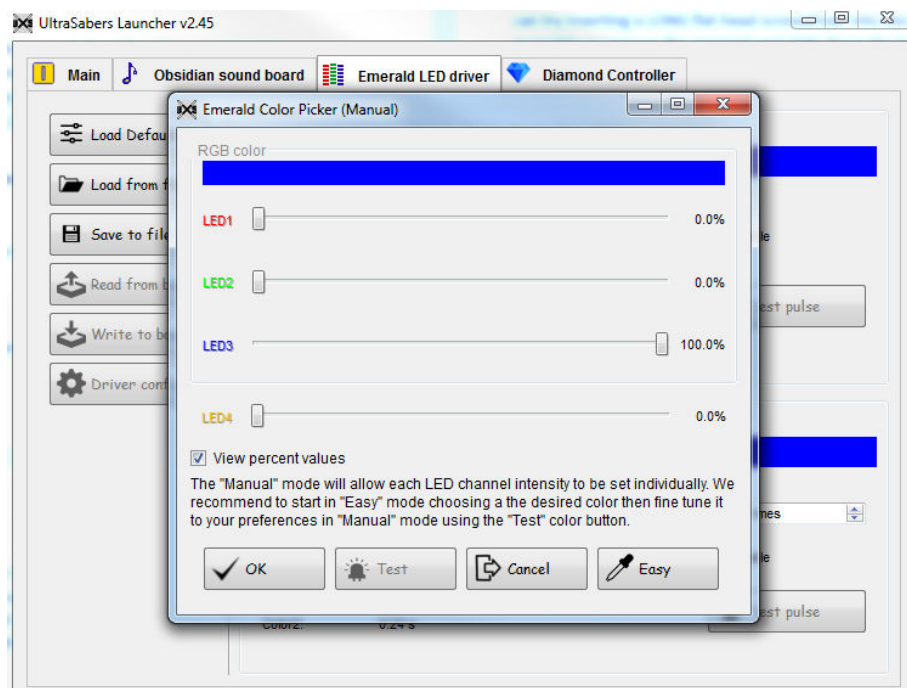
Emerald Driver (Top USB Port)



The Load Defaults button sets the settings to the what you see above Blue Blade Color, Green Pulse, Silver Flash on Clash with the timing included for the Pulse and Flash on Clash.

You can change the blade color by selecting a color, for example if you click on the Blade Color (Blue) an Emerald Color Picker Screen opens in Manual Mode.

Emerald Color Picker (Manual)



Emerald Color Picker (Manual) cont.

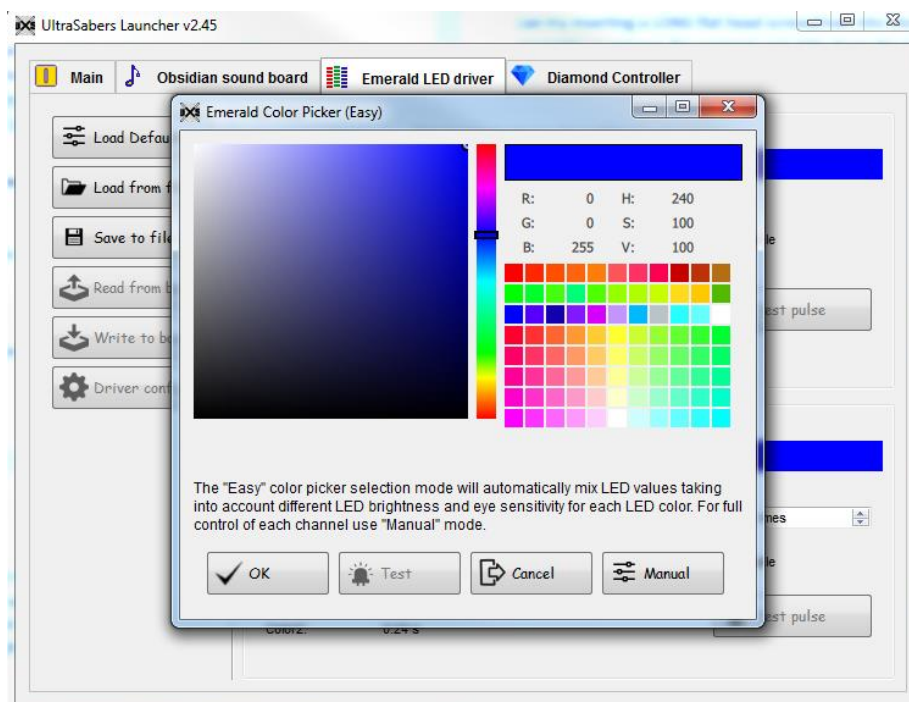
With the Emerald Color Picker in Manual mode you can use the sliders to create your blade color by combining Red, Green, Blue, and White(Amber). If your saber has an illuminated AV switch, the 4th channel must stay at 100% or the AV switch will be dim or off.

You have the option of viewing the values as percent values (0% to 100%) or if you take the check out of the View Percent Values you can combine colors using hexadecimal values (0 to 255).

You can check the color created by clicking the Test button, it will turn your saber blade color the color combination briefly. When you find the color you are looking for you can click the OK button.

This screen will be seen when selecting colors for the Pulse and Flash on Clash colors.

Emerald Color Picker (Easy)



The Emerald Color Picker (Easy) is an effortless way to find the color you are looking for without having to mix and match colors to make the perfect color. You can select a color from the Easy Mode and then perfect shade using the Manual Mode.

Here are some color combinations to get you started:

Blazing Red: Red 255

Guardian Blue: Blue 255

Consular Green: Green 255

Violet Amethyst: Red 212 Blue 255

Sunrider's Destiny: Green 255 Blue 120

Fire Orange: Red 255 Green 77

Arctic Blue: Green 182 Blue 255

Adegan Silver (without White LED): Red 255 Green 255 Blue 255

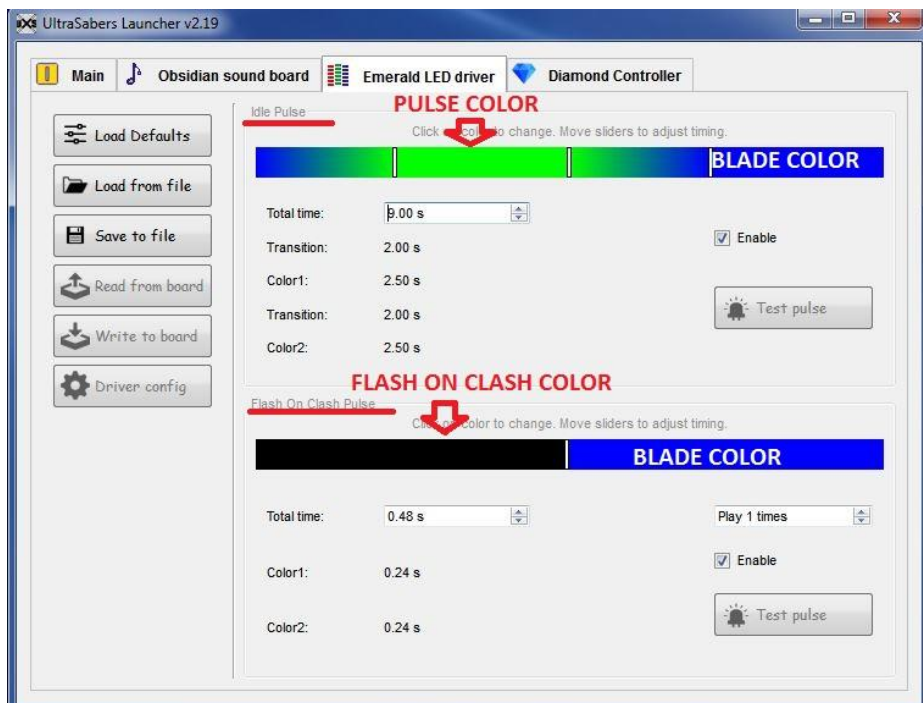
Pyrestone Orange: Red 255 Green 36

Sentinel Yellow: Red 255 Green 200

Dark Violet Amethyst: Red 81 Blue 255

Emerald Green: Green 255 Blue 45

Bane's Heart: Red 255 Blue 80



You can adjust the speed of the pulse, if you want the shimmering movie effect, put the pulse color 80% of what the blade color is and change the total time to .08 and it will have that shimmering unstable effect.

You can also adjust the Total Flash on Clash Light effect time and how many times it plays.

When you complete your changes make sure to click write to board.