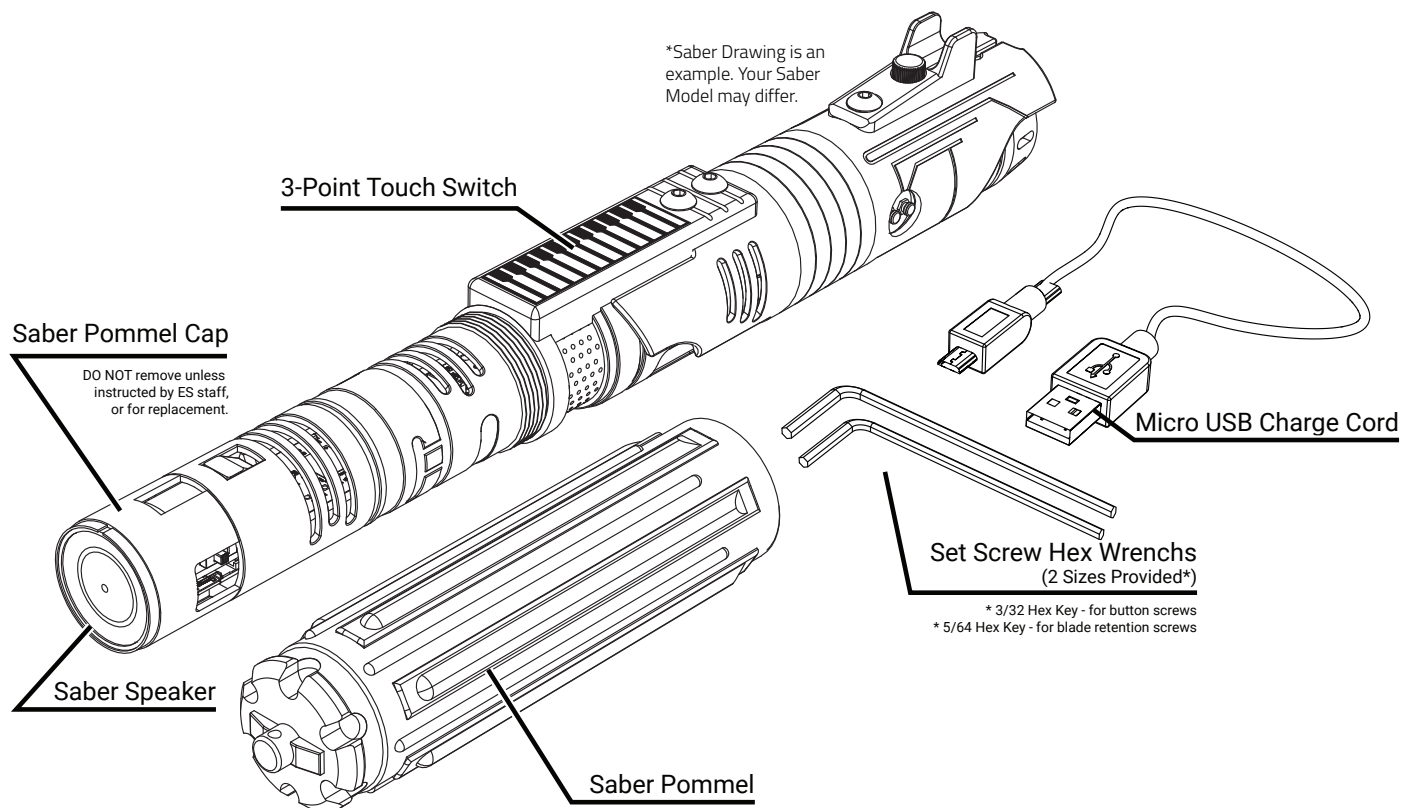


# ELECTRUM SABERCRAFTS

Congratulations on your new Electrum Smart Saber®! Your new saber is powered by the Diatium3 Saber Core, and features these components in your package. Confirm that these components are in the box. If your package is missing any of these components, contact the Electrum Sabercrafts team at [support@electrumsabers.com](mailto:support@electrumsabers.com)

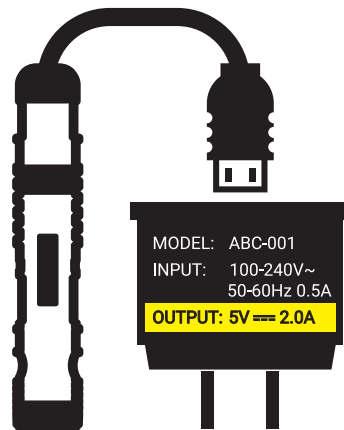


**YOUR SMART SABER REQUIRES A CHARGE ADAPTER OUTPUT OF 5V (VOLT) 2A (AMPS) OR HIGHER.**

When charging the saber, ensure your power source is at least 5V 2A and that the saber is set to DEEP SLEEP (see page 2).

**Do not use computer USB ports, low power adapters or multi-outlet adapters. ONLY A DEDICATED, 5V 2A WALL ADAPTER SHOULD BE USED.**

Most USB wall charger adapters will feature a text box with the output power rating. Check your charger to ensure your charger outputs the correct 5V 2A power supply. Input value does not matter. (See reference image to the right)



DO NOT attempt to remove the internal electronics saber chassis or pommel cap! Doing so could damage the electronics and void your warranty.

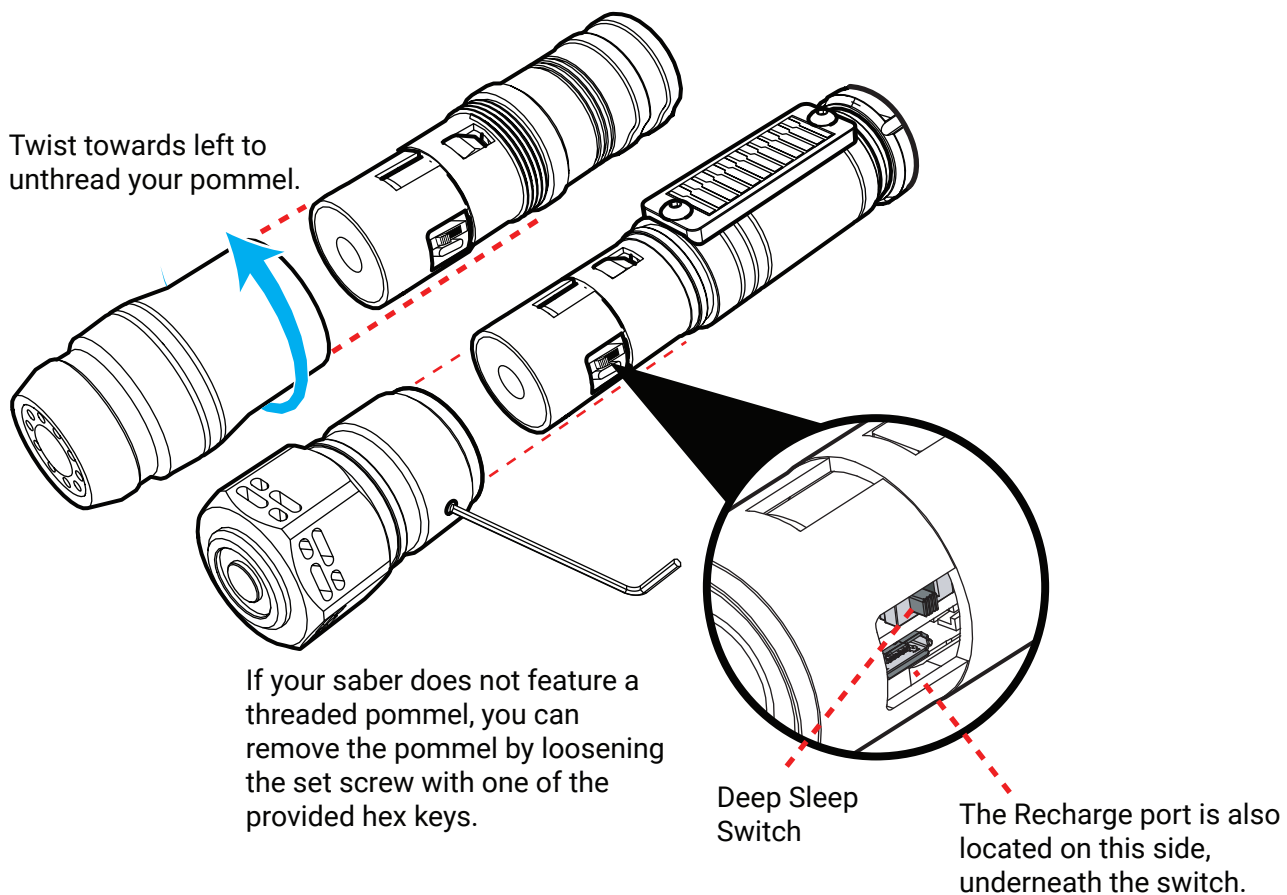


When charging the saber, be sure to place the saber in a position where the saber cannot fall/be knocked onto the floor. The hilt could land on the charge cord itself and damage the charge port.



Find more information at [ElectrumSabers.com/Resources](http://ElectrumSabers.com/Resources)

## BASIC OPERATION



### Charging Your Saber

You should charge the saber before use with the provided micro USB cable, using a power supply rated for at least 5V (Volt) 2A (Amp). The saber takes approx. 2½ hours to charge from 0%.

Each Electrum Saber is shipped in “Deep Sleep” mode to conserve battery power. To take the saber out of “Deep Sleep” mode, remove the pommel with the provided set screw key, or unthread it (some models) and toggle the Deep Sleep Switch so that the switch position is toward the speaker end.

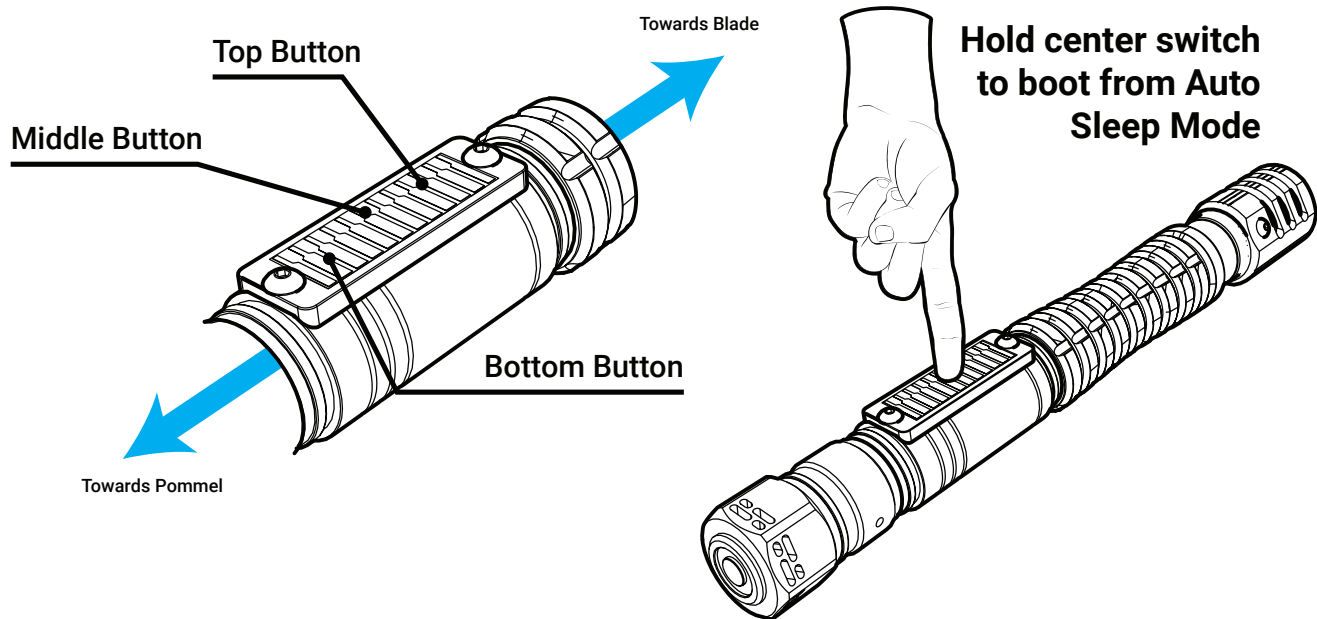
**! Do not press hard on the Deep Sleep Switch or you may damage it.**

You can re-enter Deep Sleep mode by toggling the Deep Sleep Switch back to the off position, towards the blade side. This will preserve the saber battery if you need to leave it on the shelf for long periods of time, and also functions as a basic power cycle restart.

**! The saber *MUST* be in deep sleep mode when charging.**



## BASIC OPERATION



### Auto Sleep Mode

The Diatium3 Smart Saber features an intelligent “Sleep Mode”, that conserves power automatically when it is not in use. This mode activates after the saber is OFF (blade unlit) and idle for 10 minutes. (You can change this time/disable this in “Switch Settings” on the **Electrum Unity II App**). When this mode is triggered, the saber will not activate with the bottom switch button. To disengage Sleep Mode, hold the center switch button until all leds on the switch flash. The saber will play a boot sound, and you’ll be able to activate the saber.

### Touch Switch Operation

Each Electrum Saber Touch Switch has 3 points of activation: the top, middle, and bottom buttons. These each have a special feature associated with them.

To activate the saber, take the saber out of Deep sleep, and **wait until a boot sound plays\***. This sound is different for every Sound Font. After you hear the sound, hold the bottom switch button to power on the saber blade. To deactivate the saber, hold the top switch, or set up the saber with the app to slide from top to middle using the Electrum Unity II App.

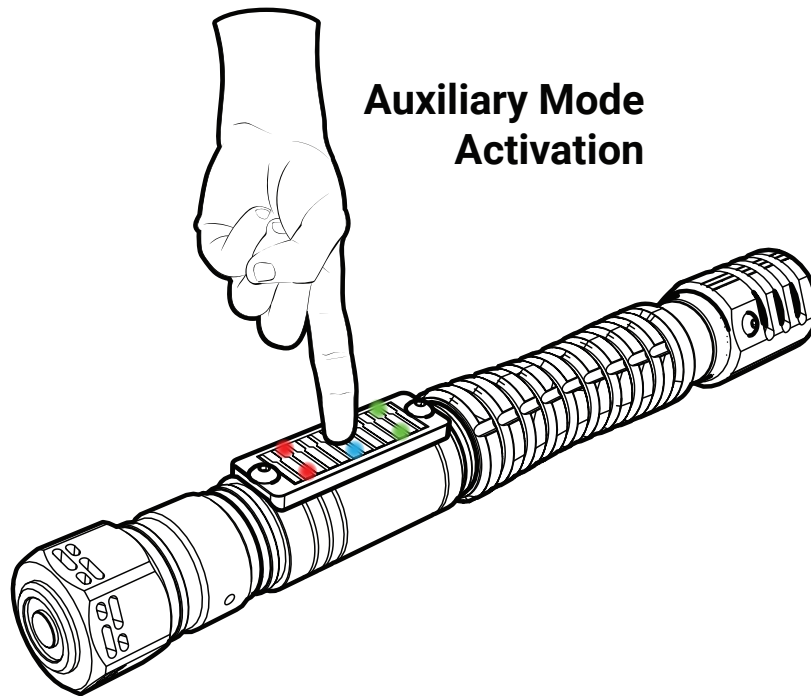


**\*The switch automatically calibrates to the environment after taking the saber out of deep sleep. After taking the saber out of Deep Sleep, always wait until a boot sound plays before attempting to use the switch in order to calibrate properly.**

You can also set a slide motion to activate/deactivate, using the Unity II App (see page 18). With this enabled, slide your finger from the bottom switch button to the middle to power on, top to middle to power off.



## BASIC OPERATION



### Auxiliary Mode Activation

#### Auxiliary Mode Menu

The Auxiliary mode menu allows you to change your Volume, Sound Bank, User Profile, Pixel Profile and Blade Profile directly on the saber. This menu is accessed by holding the middle button on the switch while the saber is in a level horizontal position until all switch LEDs flash, then release. The saber will play an audio effect telling you which menu is active. Tap the top or bottom switch button to cycle through options, or tap the center to navigate to the next menu. Hold the center button, or swing the saber to exit the menu.

#### Menu Navigation Options:

**Volume** Top button will increase volume, bottom button decreases volume.

**Profiles** Top and bottom buttons cycle through your saved User Profiles.

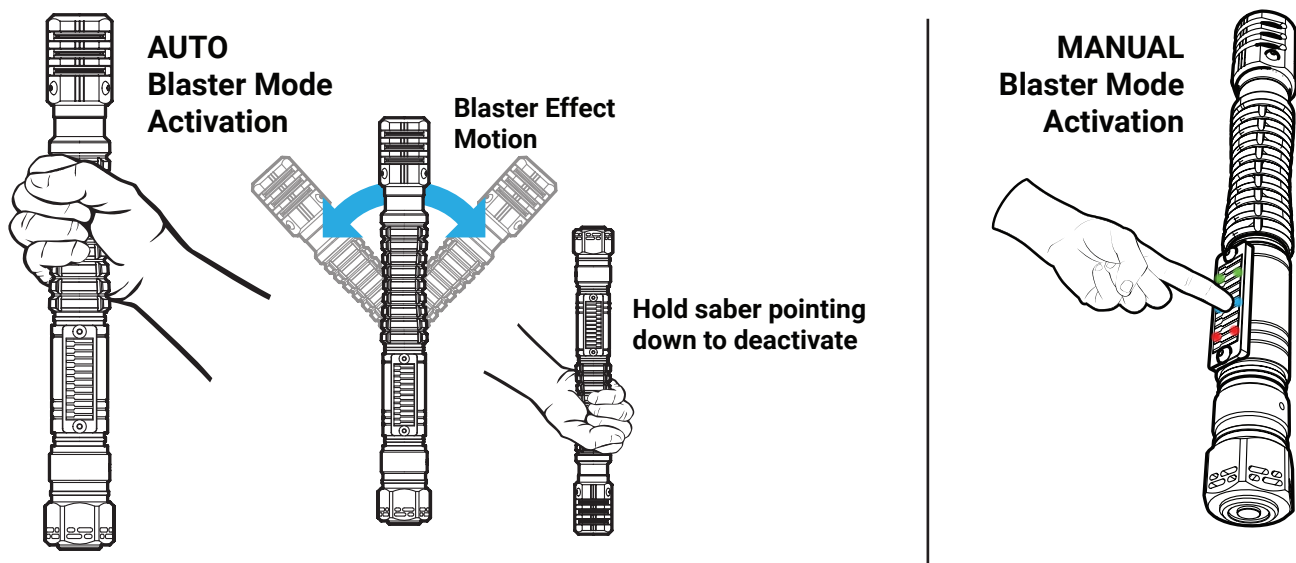
**Sound** Top and bottom buttons cycle through all sound fonts present on your SD card.

**Blade** The Bottom button cycles the Blade Styles associated with your 12 User Profiles

Also note, when you change your Volume, Blade style or Sound Font using the Auxiliary menu, the saber will remember the last setting used when it is next activated. Toggling Deep Sleep will cause the saber to load the settings assigned to the active User Profile instead. If you wish to permanently change the sound or color of the User Profile, change its settings with the Electrum Unity II App.



# BASIC OPERATION



## Auto Blaster Mode

To enter Blaster Mode, hold the saber in a **vertical position** (blade straight up) until a blaster effect plays. Once Blaster Mode is active, swing the saber left and right to create blaster effects. The arc in which you must swing the saber to activate blaster effects can be set using the Electrum Unity II app (default 7.5 degrees).

A blaster effect is activated if you swing the blade across the center line (straight up) within the arc angle specified.

To exit Auto Blaster Mode, hold the saber blade pointing straight down. Your blade will flash with the clash color to indicate that Blaster Mode has ended.

## Manual Blaster Mode

If you use the Electrum Unity II app to set Auto Blaster Mode OFF, Blaster effects can instead be triggered by tapping the center touch switch button. In this mode, Blaster effects can be activated at any angle except horizontal, as the saber uses this angle to activate the Auxiliary Menu. (see page 4)



**Blaster Mode and Force Effects will only activate if the sound font in use contains blaster sound files or force files. If they are not present, the saber will not enter Blaster Mode.**

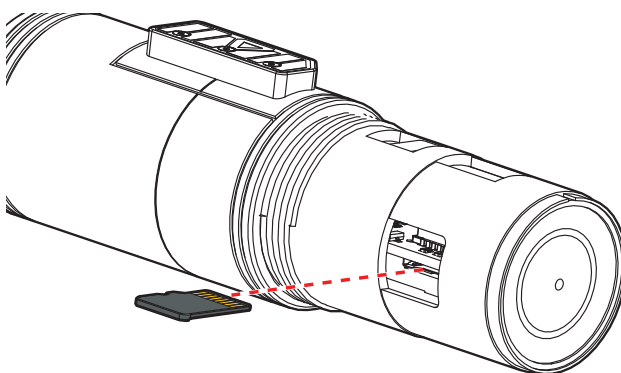
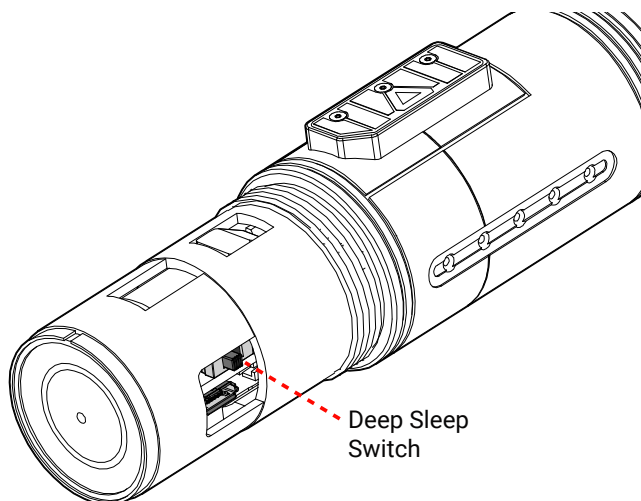


# SOUND FONTS

## Adding Sound Fonts

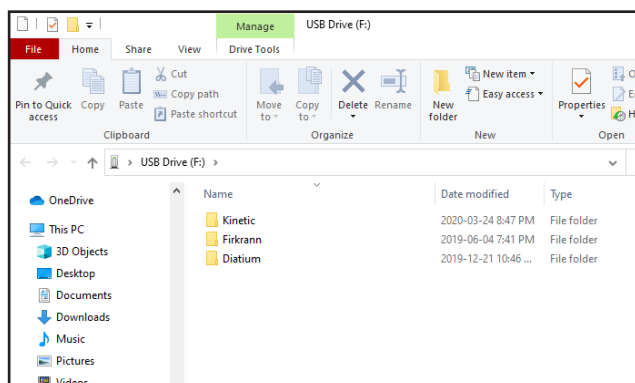
All Sound Fonts on your Electrum Saber are stored on the included Micro-SD card. This can be accessed by removing the pommel. Before performing any Sound Font changes, you must first put your saber into Deep Sleep by toggling the Deep Sleep Switch. To remove the SD card, pull the card from the SD card slot, being careful to pull straight out so you do not damage the slot.

To add sound fonts, connect the SD card to a computer running Windows or Mac OS, and drag your entire sound font folder onto the card folder. Do not use special characters or spaces in the folder name. Also, **ensure that your fonts are not stored in a sub-folder inside the main folder.** Once all your folders are loaded, reinsert the card, and then toggle the Deep Sleep Switch back on. Your fonts should now be selectable. If your font isn't appearing on the saber, perform a Soft or Hard reset as detailed in **Troubleshooting**. **Your sound font folder should contain only WAV audio files, no sub folders or other file types.**



### SD Card Access

The SD card can be accessed inside the pommel, opposite the Deep Sleep Switch. DO NOT remove the Speaker cap to access the card.



- ❗ Sound Font folder and file names should not contain special characters (@, #, \$, etc.).
- ❗ Use ONLY 44.1kHz High Definition Sound Fonts.





# UPDATING YOUR SABER FIRMWARE

## Updating Your Saber Firmware

The firmware on your saber is also updated using the Micro-SD card.

**STEP 1:** Put the saber in Deep Sleep and remove the SD card

**STEP 2:** Download the appropriate 3.0 Firmware package for your saber: NeoPixel or In-Hilt LED

**STEP 3:** Unzip the firmware

**STEP 4:** Remove the SD card. Insert it into your computers micro-SD port or SD card adapter, and remove all file content inside of it.

**STEP 5:** Place the dBoot.cry and Loader.cfg on to the SD card. Place these files into the root of your SD card, do not load them into a folder or sound font folder.

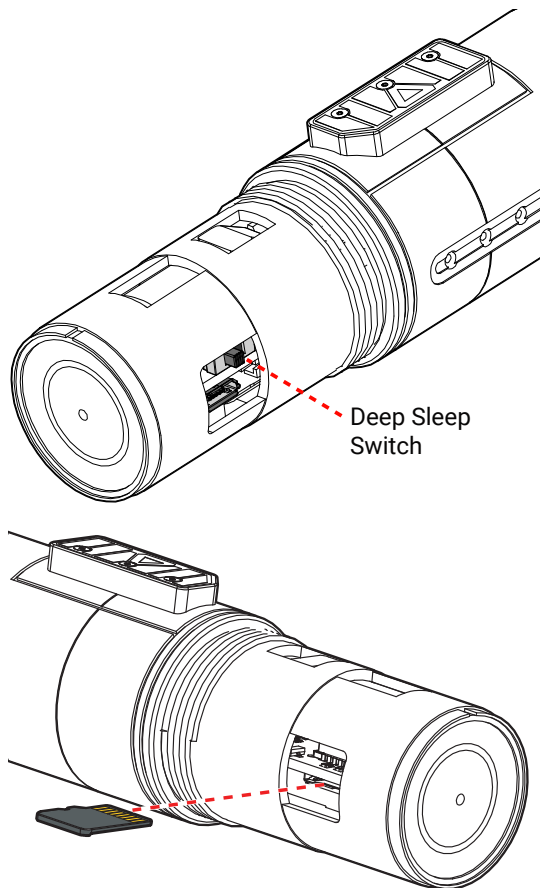
**STEP 6:** Copy one sound font (There is one available on the update page) and load it onto your SD card.

**STEP 8:** Eject the SD card from your computer

**STEP 9:** Place your SD card back into your Electrum Smart Saber®

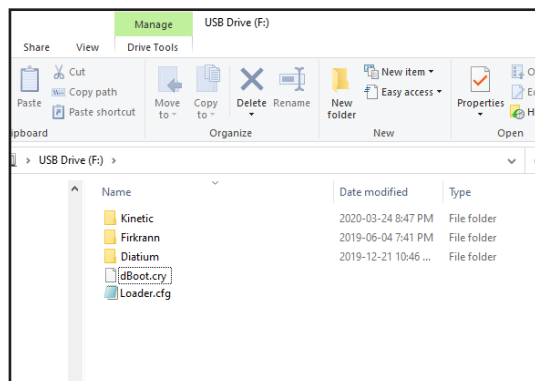
**STEP 10:** Toggle deep sleep to wake the saber (toward the speaker). The middle switch buttons will indicate that the saber is updating. Do not touch any buttons. Do not toggle the deep sleep switch during this process. Wait for the boot sound, when you hear the boot sound your saber has now been hard-reset and is ready for use with the Electrum Unity II App.

If you attempt to load firmware files that already match the version present on your saber, the saber will boot normally, and the update files will be removed from your SD card.



### SD Card Access

The SD card can be accessed inside the pommel, opposite the Deep Sleep Switch. DO NOT remove the Speaker cap to access the card.



**Ensure that you use the correct firmware version for your saber. Using the wrong firmware files could potentially damage your saber electronics.**



**Performing a Firmware Update will reset all settings to factory defaults.**



Find more information at [ElectrumSabers.com/Resources](https://ElectrumSabers.com/Resources)

## BLADE OVERVIEW & OPERATION

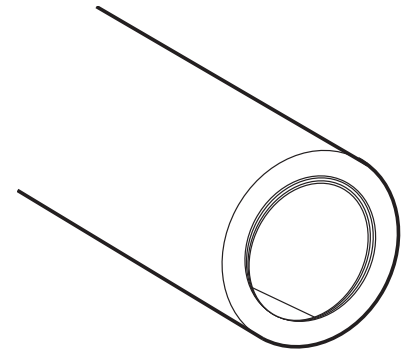
Your Smart Saber® features a set screw in the emitter that is used to hold the blade. This screw needs only a friction fit to hold your blade. Use the provided hex key to set or remove the blade.

### Standard and Dueling Blades (In-Hilt LED)

The standard blade setup, otherwise known as “In-Hilt LED”, are hollow blades that feature no electronics inside, and are lit by an LED inside the hilt.

To maintain these blades, use the provided dust cap when the blade is not inserted into the emitter. This will prevent specks from affecting the look of your blade. To remove any scratches caused by using your blade, you can refinish the blade with a fine grain scouring sanding pad along the length of the blade.

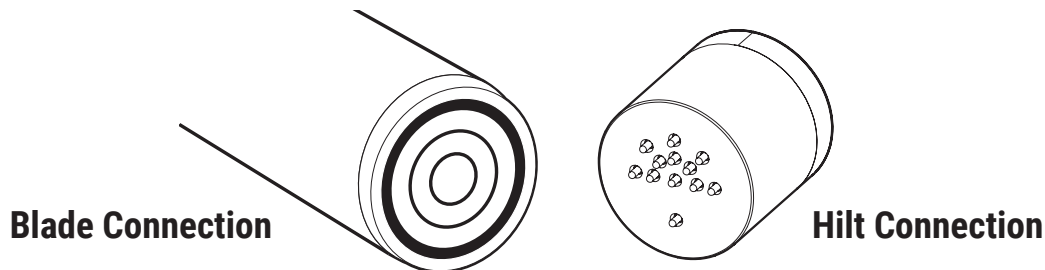
These blades also feature diffusion film inside the blade. Be careful not to twist or remove this film. It will naturally flex with the blade.



**Standard Blade with Diffusion Film**

### Pixel Blades

The Pixel Blade features LEDs inside the blade itself, so the blade can perform scrolling effects and other animations that can be set with the Electrum Unity II App. The hilt connection uses a brass, spring loaded pin system to connect to the blade. This system is resilient, and eliminates the need to insert the blade in a specific orientation. Ensure that the blade is firmly pressed against these pins to avoid color errors and poor performance. You should ensure that the emitter is free of any debris before connecting a blade to avoid damaging the pins or the blade itself. Check the blade side connector as well for dirt or debris.



**Electrum SaberCrafts does not warranty the Pixel Blade for full contact dueling.**



**DO NOT over-tighten the blade set screw. A firm friction fit is enough to hold the blade for even heavy dueling sessions. Overdriving these screws can damage both your blade and the threading on your hilt.**



Find more information at [ElectrumSabers.com/Resources](https://ElectrumSabers.com/Resources)



# TROUBLESHOOTING

## Resetting the Saber

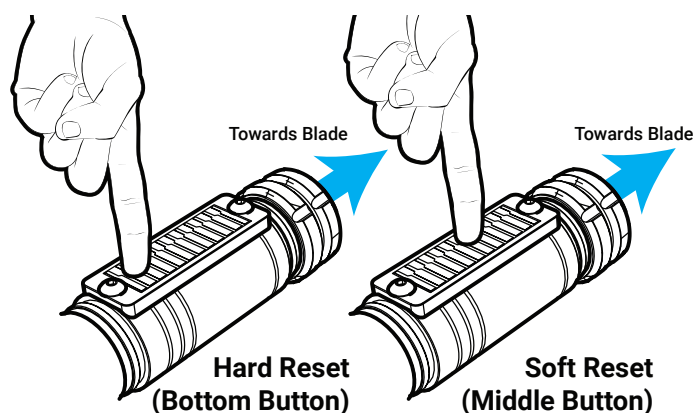
You may encounter a scenario where you want to restore your factory settings, or refresh some aspects of the saber, as in the case of loading sound fonts. The Saber has **Soft Reset** function, which will reset your saber while leaving your user profiles and color banks intact, and a **Hard Reset** function which will restore the Saber to factory settings, and reload all sound banks. Both resets will recalibrate the Touch Switch.



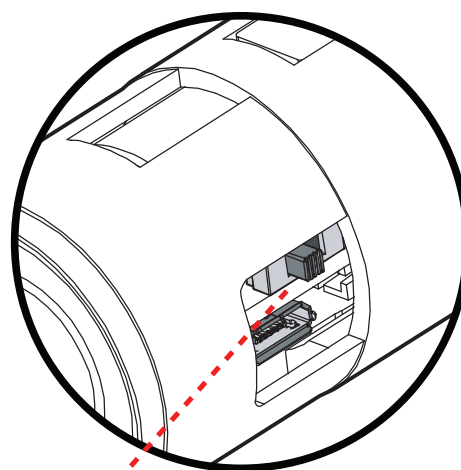
**All custom settings, including Kinetic Engine, Blade Colors, and User Profiles will be reset back to Factory Settings when performing the Hard Reset process.**

To reset the Saber, toggle the Deep Sleep Switch towards the blade end of your saber, and then back towards the speaker end. **Once all the LEDs on the switch STOP flashing**, hold the corresponding button for your desired reset (Bottom for Hard Reset, Middle for Soft Reset) until the LEDs on the switch flash again. Release the button when the switch lights start to blink. After a moment, the saber will boot with your second User Profile as the active profile.

If you have performed a Hard Reset, the saber will boot with a Green flickering blade, and will have the second sound font active if your saber has more than 1 sound font on the SD card.



Once Switch LEDs stop flashing, hold the correct button until they flash again, as shown above.



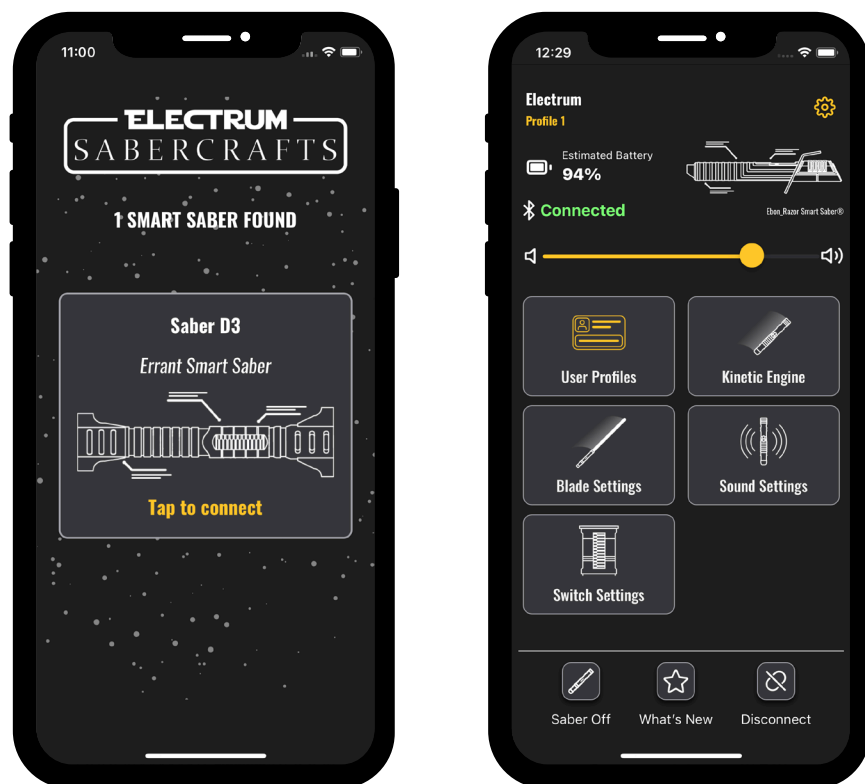
Deep Sleep Switch



**If any issues persist, refer to Advanced Troubleshooting at the end of this manual.**



# ELECTRUM UNITY II APP



## Getting Started with Electrum Unity II

The Electrum Unity II App is used to fine tune your saber experience, change blade colors and blade styles, motions and more. It is available on Google Play for Android™ devices and the App Store for Apple® devices. To connect to your Electrum Smart Saber® with the app, activate the saber (blade on) and open the app. When connecting to your Electrum Smart Saber® for the first time, it will appear as “ELECTRUM” or similar. Tap to select your Saber.

Upon connection, the saber will make a connection confirmation noise. After this, the **Dashboard** will be displayed, allowing for fine tuning of all of the Sabers settings. App video overviews are available at [ElectrumSabers.com/Resources](https://ElectrumSabers.com/Resources)

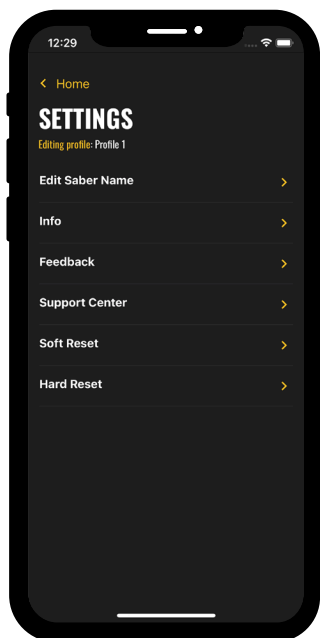
- ⚠️ **Ensure that both BLUETOOTH and LOCATION/GPS Settings are on before attempting to connect to the App.**
- ⚠️ **Do not attempt to connect your Saber to your phone using your devices bluetooth menu. If this is attempted you may need to reset the saber and close/reopen the App to find the saber in the app again. Only the App is needed to connect to the saber.**
- ⚠️ **Your Smart Saber® must be updated to minimum Firmware Version 3.0 to connect with The Electrum Unity II App.**



Find more information at [ElectrumSabers.com/Resources](https://ElectrumSabers.com/Resources)

# ELECTRUM UNITY II APP

## SETTINGS



The Settings menu, accessed by the Cog icon on the dashboard, provides information about your Electrum Smart Saber, as well as the ability to rename the saber or perform resets on the saber itself.

### Edit Saber Name

This option allows you to rename the saber for easier identification. Spaces, numbers and letters can be used. The app may restart the saber when this is changed.

### Info

This option will display the current App and Smart Saber versions. It also provides general information about the Unity II app and links to our Terms of Service and Privacy Policy.

### Feedback

This option opens an email prompt to send feedback on the Unity II app experience.

### Support Center

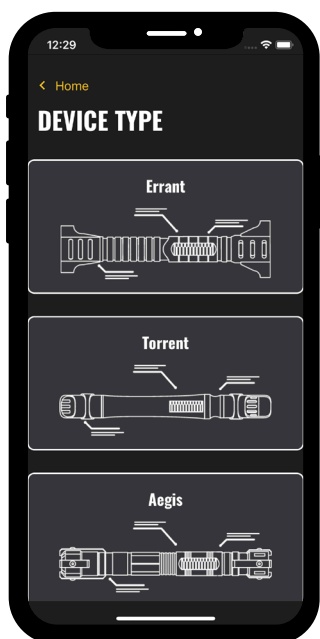
This option displays web links for inquiries and Technical Support.

### Hard Reset

This option will factory reset your saber settings. For details on the Hard Reset, see page 9.

### Hard Reset

This option will reboot your saber with settings intact. For details on the Soft Reset, see page 9.



## DEVICE TYPE

By tapping the Saber Model name under the saber model icon on the Dashboard, you can select the saber hilt model that matches your Electrum Smart Saber. The app may restart the saber when this is changed.



**Changing the Saber Name or Device Type will update your sabers bluetooth to broadcast this information. Your mobile device may take some time to update your device cache and display the new values.**



# ELECTRUM UNITY II APP



## USER PROFILES

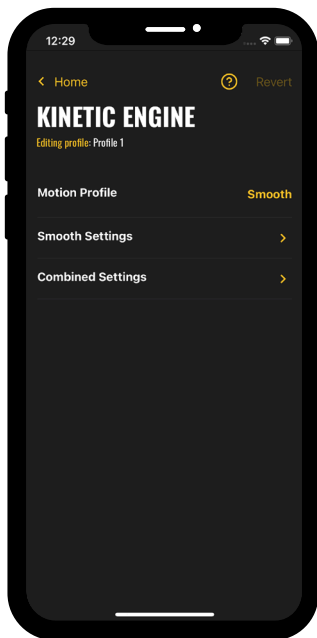
User Profiles allows you to combine all of your settings into a packaged profile for easy access. The saber comes preloaded with 12 User Profiles that you can edit or disable. Each User Profile by default will have a sound font and blade color associated, and will be set to Smooth motion profile (If your font has Smooth Swing files present). The default sound font linked to each profile will be dependant on the number of fonts you have loaded on the saber.

Ex. You have 4 loaded sound fonts, so User Profiles 1-4 will have a unique font linked, and the rest of the profiles will default to the first font on the card.

To change a User profile, first select it inside the User Profile menu. With your User Profile now active, the Dashboard will display the active User Profile under the Saber Name, and any changes you make in all other settings throughout the Unity II App will automatically save to your active User Profile.



# ELECTRUM UNITY II APP



## KINETIC ENGINE

The Kinetic Engine allows for control over the motion parameters in the saber, allowing you to fine tune the saber to your specific movements.

### Motion Profile

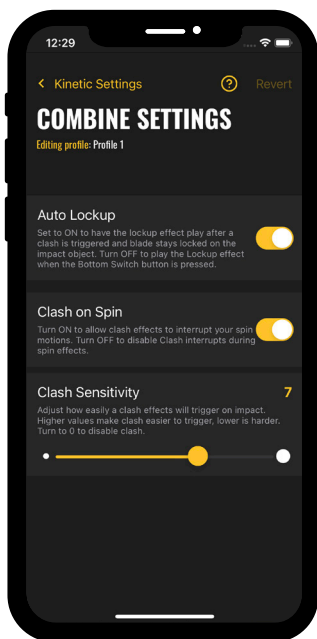
This option allows you to select 1 of 3 motion profiles:

**Smooth Swing** - Full dynamic motions, no classic swing effects.

**Hybrid Swing** - Dynamic Smooth Swing with Classic swings added on hard slashes.

**Classic Swing** - Plays a swing sound after a motion threshold, hum is static.

If the option cannot change from Classic, your font likely does not have smooth swing files present.



### Combined Settings

This menu displays modifiers for all motion profiles.

#### Auto Lockup

Set to ON to have the lockup effect play after a clash is triggered and blade stays locked on the impact object. Turn OFF to play the Lockup effect when the Bottom Switch button is pressed.

#### Clash on Spin

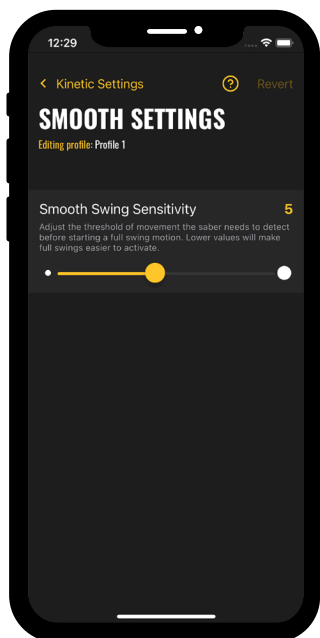
Turn ON to allow clash effects to interrupt your spin motions. Turn OFF to disable clash interrupts during spin effects.

#### Clash Sensitivity

Adjust how easily a clash effects will trigger on impact. Higher values make clash easier to trigger, lower is harder. Turn to 0 to disable clash.



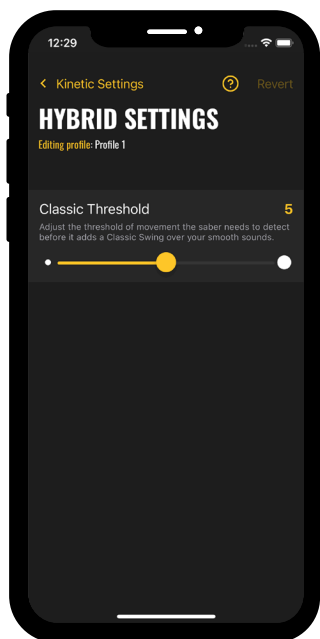
# ELECTRUM UNITY II APP



## Smooth Settings

This menu displays all the motion and effect parameters for Smooth Swing, and is available in both Smooth and Hybrid motion profiles.

**Smooth Swing Sensitivity** Adjust the threshold of movement the saber needs to detect before starting a full swing motion. Lower values will make full swings easier to activate.



## Hybrid Settings

This menu displays Hybrid modifiers for Hybrid Swing, and is only available in Hybrid motion profile.

**Classic Threshold** Adjust the threshold of movement the saber needs to detect before it adds a Classic Swing over your smooth sounds.



## Classic Settings

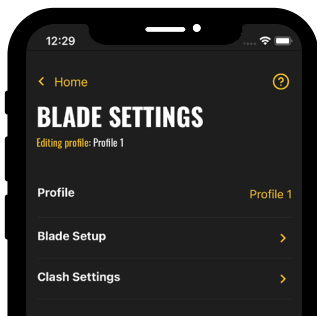
This menu displays modifiers for Classic Swing, and is only available in Classic motion profile.

**Swing Start Detection** Adjust the threshold of movement the saber needs to detect before starting a full swing motion.



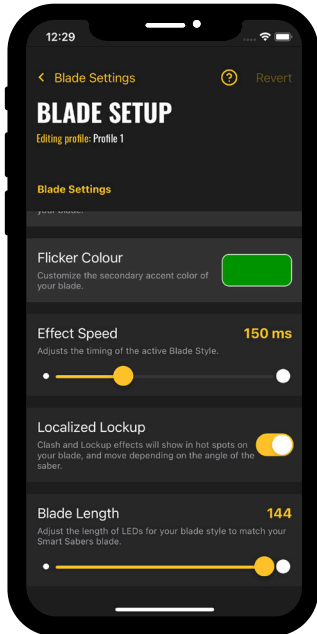


# ELECTRUM UNITY II APP



## BLADE SETTINGS

The Blade Settings Menu gives you access to your current User Profiles saved Blade Presets, including color, effects, clash color, and blade length for Neopixel sabers.



### Blade Setup

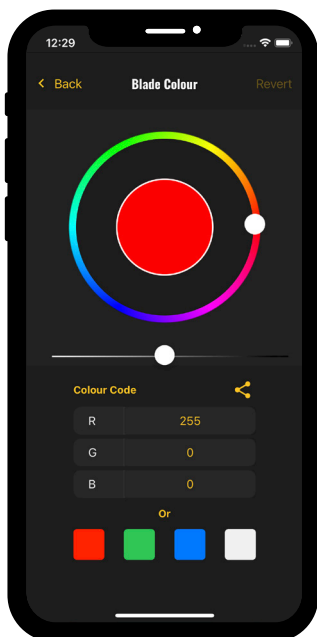
This menu allows you to adjust your blade colors and effects. Pixel Blade effects are also located here, if applicable. Changes made in this menu will automatically save to your User Profile, unless you press "Revert" on the top of your screen.

#### Blade Color

The main color of your blade. This is the color the blade will be if set to Solid, and the first color it will use in a mixed color blade style.

#### Flicker Setup Color

This is the secondary color of your blade, and will be the accent or secondary color of a mixed color blade style.



### Color Wheel

Blade, Flicker and Clash color options will take you to a color selection page that features a color wheel, dimmer/white slider and manual color value selection. Simply drag the color wheel to your desired color and the saber will update to the chosen color of your selection.

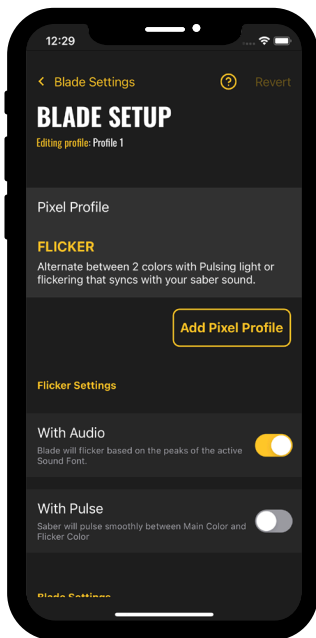
The White to Black slider will dim your chosen color if dragged to the right, darker side. This will also help you conserve battery if desired.

Sliding towards the left, white side will mix in the other colors gradually to increase white light, until the blade is pure white.

If you simply want to pick a dedicated **Red**, **Green**, **Blue**, or **White** color, tap the corresponding color boxes at the bottom of the menu.



# ELECTRUM UNITY II APP



## With Audio

When using the Flicker Pixel Profile, this will set the blade style to flicker based on the peaks of the active Sound Font.

## With Pulse

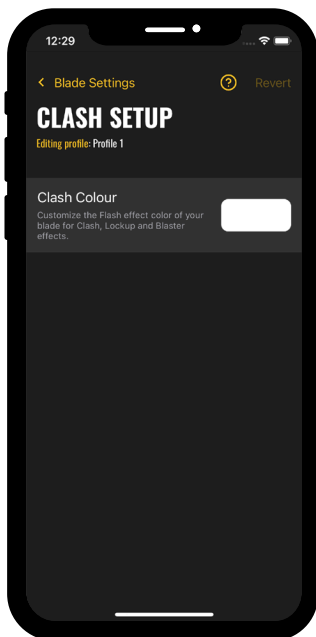
When using the Flicker Pixel Profile, this will set the blade style to pulse smoothly between Blade Color and Flicker Color.

## Localized Lockup

On Pixel blades with this option set ON, Clash and Lockup effects will show in hot spots on your blade, and move depending on the angle of the saber.

## Effect Speed

This option adjusts the timing of the active Blade Style.



## Clash Setup

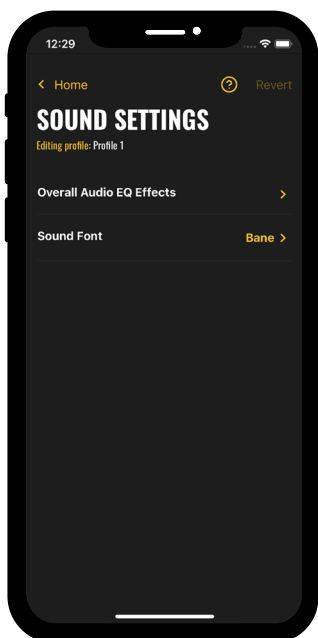
The Clash Setup Menu allows you to customize the color and effect duration of your impact flash on clash effects. Hit Save to apply the choices, or Back to cancel your changes.

## Clash Setup Color

This option sets the clash effect color that you blade will flash when it detects impact.



# ELECTRUM UNITY II APP



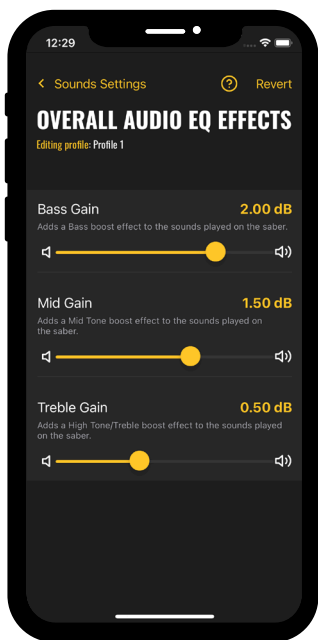
## SOUND SETTINGS

This menu has access to your Sound Fonts and Audio EQ effects.

### Sound Font

Select your sound font here. Tapping this will pull a list of all the fonts loaded on your saber. If you don't see it listed here, check your SD card to make sure the font is a proper 44.1kHz font with no subfolders.

This option will display an **S** next to the Sound Font name if it is Smooth Swing compatible.



### Overall Audio EQ Effects

This menu displays the Audio EQ modifiers you can apply to your User Profiles active Sound Font. Each is applied in real time so you can preview them. Hit Save to apply to the User Profile, or Back to cancel.

#### Bass Gain

Adds a Overall Bass Boost (Low Tones) effect to the Sound Font. Best for deep, low, rumbling Sound Fonts.

#### Mid Gain

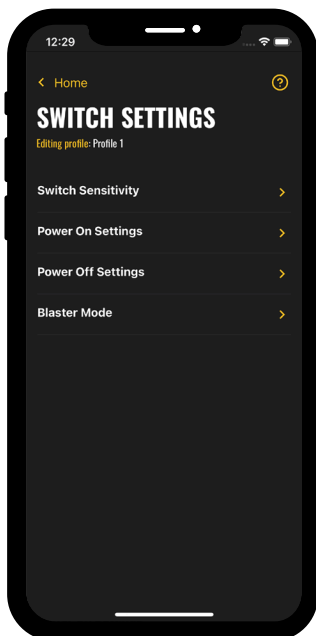
Adds a Overall Mid Tone Boost effect to the Sound Font. Best for Sound fonts with a wider range of peaks.

#### Treble Gain

Adds a Overall High Tone Boost effect to the Sound Font. Best for crackling, unstable or piercing Sound Fonts.

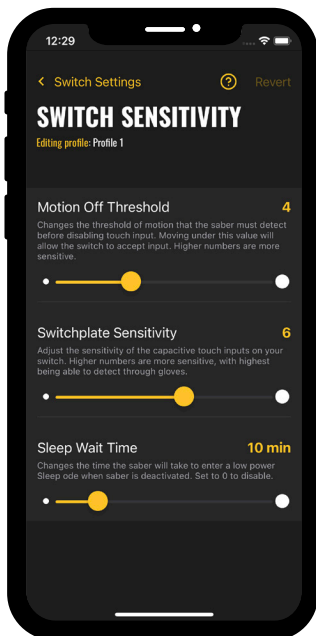


# ELECTRUM UNITY II APP



## SWITCH SETTINGS

This menu provides access to your Smart Sabers touch switch programming and sensitivity options. These settings will save to your User Profiles individually, so they will be different on each User Profile.



### Switch Sensitivity

This menu allows you to fine tune the Touch Switch response.

**Motion Off Threshold** Changes the threshold of motion (swing) that the saber must detect before disabling the touch switch. Lower values will allow the switch to remain available for input even with the saber in motion, while higher numbers will disable the switch during smaller motions.

### Switch Sensitivity

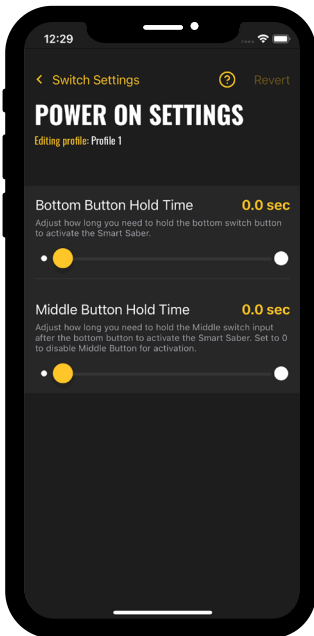
Adjusts the touch input sensitivity of the Capacitive Touch Buttons on your switch plate. Lower values will make the switch harder to activate, and higher will make it easier. If you are using gloves with your saber, you will want to adjust the value higher.

### Sleep Wait Time

Changes the time that the saber will take to enter a low power Sleep Mode, when the saber blade is deactivated. Set to 0 to disable Sleep Mode. Note that "Sleep Mode" is not the same as Deep Sleep. If your saber is going to be on the shelf for a long time, or needs a reset, use Deep Sleep instead.



# ELECTRUM UNITY II APP



## Power On Settings

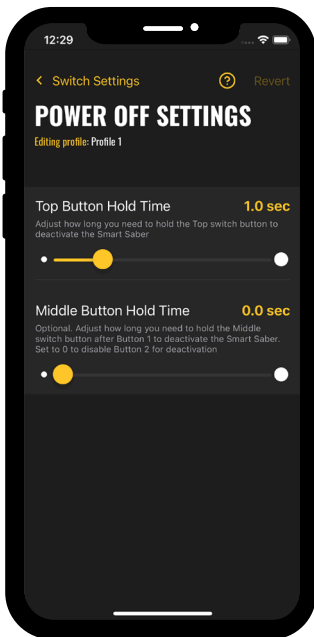
This menu provides options for adjusting the Power On (Blade Activation) button sequence and timing for your Touch Switch.

### Bottom Button Hold

Adjusts how long you must hold the Bottom Button on the Touch Switch to activate the Power On function.

### Middle Button Hold

This optional setting adds a second button touch to your Power On sequence. Setting this value above 0 adjusts how long you must hold the middle button on the touch switch, after you've held the bottom button, to activate the saber.



## Power Off Settings

This menu provides options for adjusting the Power Off (Blade Deactivation) button sequence and timing for your Touch Switch.

### Top Button Hold

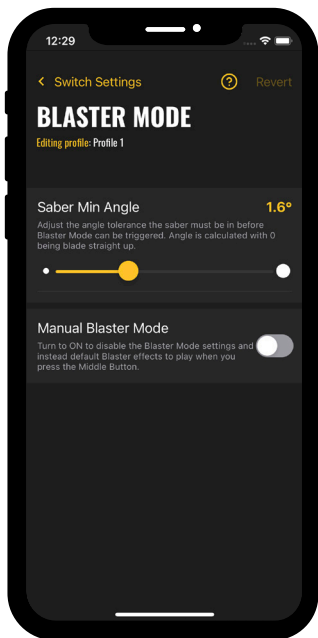
Adjusts how long you must hold the Top Button on the Touch Switch to activate the Power Off function.

### Middle Button Hold

This optional setting adds a second button touch to your Power Off sequence. Setting this value above 0 adjusts how long you must hold the middle button on the touch switch, after you've held the top button, to deactivate the saber.



# ELECTRUM UNITY II APP



## Blaster Mode

This menu allows you to adjust how to activate Blaster Mode, which creates lights and sounds on your blade to immitate a laser blast deflecting off of the blade itself. With Blaster Mode activated, entering the mode will turn your swings into blaster blocks and activate the blaster deflection animation. With Manual Blaster Mode activated, it will instead turn your bottom button into a “blaster effect” button, and play the effect on touch.



**Manual Blaster Mode can only be active when Auto Lockup is also selected in Kinetic Engine.**

## Button Hold Time

This adjusts how long you must hold the bottom button in order to activate blaster mode.

## Saber Min Angle

Adjusts the angle tolerance that the saber must be in before Blaster Mode can be triggered. Angle is calculated with 0 being blade straight up. (See page 5)

**Manual Blaster Mode** Turn ON to disable Blaster Mode settings and instead default Blaster Effects to play when you press the bottom button. Auto Lockup must be ON to use this feature.





## F.A.Q.

### **What types of sounds does the saber support?**

The Saber supports 16 bit, 44.1kHz WAV files. Note that not all fonts are created equal, so some fonts maybe missing swing files or have mixed frequencies, causing undesirable results.

### **How many Sound Banks can the saber have?**

The saber can support a maximum of 50 Sound Fonts.

### **How many color banks does the saber have?**

You can set up to 12 color banks which are saved to each user profile.

### **My new SD card sound bank doesn't load on the saber. What do I do?**

First, make sure you are using the proper font structure. If you are purchasing a font from a third party, use the **Plecter**, **CFX**, or **Proffie** version of the font. Second, ensure that no spaces or special characters (@, #, \$, etc.) are used in the folder name, and that the font contains no sub folders or other files that are not .wav format.

If your saber is still not recognizing the sound font, perform a hard reset. This will read the entirety of the SD card to ensure it loads correctly. Refer to the first point on this page for supported fonts.

### **How do I know when my saber is charged?**

The saber takes approx. 2½ hours to charge from 0 to 100%, when using a 5v 2a charger. The switchplate on the saber will indicate charge level while plugged in: bottom means charging, top means its fully charged.

### **Do I need to turn the Sleep Switch to Deep Sleep when charging?**

Yes, it is required to put the saber in Deep Sleep while charging.

### **I'm having trouble with the touch switch. How can I calibrate it?**

The touch switch calibrates itself on power down. There are 4 ways to recalibrate the switch if desired:

1. Power down the saber, either through the switch itself or the Unity app.
2. Adjusting Switchplate sensitivity with the Unity II App.
3. Toggle the sleep switch inside the pommel
4. Perform a soft or hard reset. (see page 9)

### **Can I swap between a pixel blade and regular dueling blade?**

No, the pixel setup required a special pin connection that replaces the in-hilt LED. As such, using a regular blade in a pixel equipped saber would result in an unlit blade.

### **Where can update my firmware for my Electrum Smart Saber®?**

You can find the latest updates and instructions here - [ElectrumSabers.com/Updates](http://ElectrumSabers.com/Updates)



## ADVANCED TROUBLESHOOTING

- Before performing any advanced troubleshooting, please make sure your Smart Saber® is fully charged using a 5 volt 2 amp wall charger. Do not use computer USB ports, or low-power chargers (Apple iPhone cubes) or multi-port chargers. LOW BATTERY CAUSES MOST ISSUES that a user may experience.
- Make sure that all sound font folders you add to the saber SD card contain NO special characters, including spaces, in the file names or folder names. Ensure the font folders contain no sub folders. Ensure all sound files are uniform 44.1kHz 16bit files, no mixed bitrates or low quality audio formats (22.05kHz) are supported.
- If you are experience stuttering with your sound font, please power down the saber, put it into deep sleep mode. Remove SD card and re-insert, then take back out of deep sleep and power on. If the audio issues persist, charge the saber overnight using a 5V 2A charger. If issues continue, re-format the SD card to FAT 32 and put the sound fonts back on it. If this doesn't work, the card could be damaged, and may need to be replaced. The saber can support any high speed SD card formatted to FAT32, to a max of 32GB. We recommend a Sandisk Ultra 16gb Micro-SD card.
- DO NOT TRY TO CONNECT TO YOUR SMART SABER USING THE BLUETOOTH DEVICE SETTINGS ON YOUR MOBILE DEVICE. You just need to accept the Bluetooth permissions when opening the app for the first time. If you missed this step, re-install the Electrum Unity II App or add permissions in your phone settings.
- If your Smart Saber will not boot up and the switch lights flash intermittently, your sabers SD card could be loose. Try to remove and then reinsert the SD card, and try again. If this continues, your saber battery may be low, or the SD card files could be incorrectly formatted. Charge the saber overnight with a 5V 2A charger, and check the contents of the SD card.
- If your Smart Saber touch switch flashes all lights at once, repeatedly, this indicates an SD card error, and your card is either loose or not being read. Put your saber into deep sleep and check the placement of your SD card, then try to boot again

For additional and timely support you can join the Electrum Owner's Group on Facebook. Community members there are incredibly helpful.



### NEED SUPPORT?

If you need support or have questions regarding your Smart Saber, our support team is available to help. Send us message through our chat system on our website. Our support team responds Monday to Friday between the hours of 9 am - 4 pm MST.

For additional information on your Electrum Saber, and for the  
Electrum Unity II App overview, visit

[www.ElectrumSabers.com/Resources](http://www.ElectrumSabers.com/Resources)



Find more information at [ElectrumSabers.com/Resources](http://ElectrumSabers.com/Resources)

# LIMITED WARRANTY

Limited Warranty covers defects in workmanship for the Product for a period of 1 year from the original date of Receipt from Electrum Sabercrafts.

This limited Warranty does not cover any damage due to (1) acts of God, accident, misuse, abuse, negligence, improper handling, commercial use or modifications of this Product, or normal wear and tear; (2) improper operation or maintenance of this Product; or (3) attempted repair by any party other than Electrum Sabercrafts.

This Limited Warranty does not apply where it is determined by Electrum Sabercrafts that there is no fault with the Product itself. Repairs not covered by the Limited Warranty may, at Electrum Sabercrafts' discretion, be carried out at the owner's expense.

Warranty Service, within the applicable warranty period, may be obtained by contacting Electrum Sabercrafts and requesting a Return Material Authorization Number (RMA #). Proof of purchase in the form a dated invoice/ receipt must be provided to expedite the issuance of a Factory RMA.

After an RMA number has been issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit. The RMA number must be visible on the outside of the package and a copy included inside the package. The package must be mailed or otherwise shipped back to Electrum Sabercrafts with all costs of mailing/shipping/insurance prepaid by the warranty claimant. Customs and Brokerage charges billed to Electrum Sabercrafts as a result of return shipments must be paid by the warranty claimant before repaired/replaced product can be shipped back to the claimant.

If you attempt to repair it yourself, the warranty is VOID. We will repair, but it will be at the buyer's expense.

Warranty is non transferable. Warranty is subject to the Harassment Zero-Tolerance Policy.

## **Electrum Sabercrafts Return Policy**

Electrum Sabercrafts offers a 3 day return policy. All returns are subject to a 30% restocking fee. The customer is responsible for cost of shipping. This only applies to product that is in brand new condition. The product must be packed in a similar way it was received. Once we have received the product and determined the condition we will issue the refund, minus the original shipping cost and 30% restocking fee.

## **Electrum Sabercrafts Repair (RMA)**

Before returning any product for repair you need an RMA number. An RMA number can be issued only after first troubleshooting with Electrum Support. To discuss an RMA number, please email us at [support@electrumsabers.com](mailto:support@electrumsabers.com) or reach out through our chat. Please have your name and order# available.

## **Harassment Zero-Tolerance Policy**

Electrum Sabercrafts strives to provide the best customer service and care when communicating with our customers, and we seek to provide a safe, healthy and rewarding work environment for our staff and customers. Harassment will not be tolerated during communications with us. Electrum Sabercrafts Inc. reserves the right to deny customer care or warranty if a customer engages in any of the following with our staff:

- Excessive swearing, cursing, or derogatory remarks, including but not limited to; Racism, Sexism, Ableism, Homophobia, etc.
- Sexual harassment, including but not limited to: remarks about appearance, remarks about a persons gender identity, remarks about a persons body, etc.
- Threats, both physical or otherwise



In the case of any discrepancies between this printed version of this policy and the policy publically posted on [www.Electrumsabers.com](http://www.Electrumsabers.com), the website version will be taken as accurate.



Find more information at [ElectrumSabers.com/Resources](http://ElectrumSabers.com/Resources)