

# *Kraken*

## *User's Manual*



Congratulations on your purchase of the *Kraken* vaping device. The *Kraken* is a Micro-controller based 8V PWM (Pulse Width Modulation) device capable of providing more than 350W (Watts) of instantaneous power. This device is designed for experienced users only. It is only for persons 18yrs of age or older.

Only use batteries capable of providing 40A (Amperes) of current or higher. Use of batteries below the recommended current capability may result in damage to the device or cause batteries to vent and harm the user. Use of this device implies the user has read this entire User's Manual and will adhere to all aspects and safety precautions. User assumes *all* responsibility for proper and safe use of this device and components. Because the *Kraken* has a typical idle drain of approximately 4mA, **do not** leave batteries in the device for a long period of time, they can be damaged by over discharging.

### FEATURES

1. Proprietary Anodized Aluminum Enclosure
2. Micro-controlled 8V SMART PWM Board
3. Maximum output wattage: 354W+
4. Maximum working current: 40A+
5. Maximum output voltage: 8.4V
6. Atomizer resistance: 0.2 ohms (max power) - 3 ohms
7. Reverse Battery Protection
8. Output Voltage: Adjustable between 0-100% loaded battery voltage
9. Overload / Overamp Protection
10. Low Voltage Protection
11. Locking Capable
12. Recessed Fat Daddy Spring-loaded 510
13. miTEC Tactile Button
14. Custom 3D-Printed Battery Tray w/ strap
15. Magnetic Door w/ Hidden Magnets
16. Custom Laser Engraved & Serialized
17. Limited Lifetime Warranty
18. Made in USA

## **OPERATION**

Locate the small detent on the bottom of the battery access door. Carefully remove the door. Install two 18650 batteries, taking careful note of the polarity. Polarity is clearly marked on the battery tray with a “+” and “-“. Reattach the battery door onto the mod and allow the magnets to firmly seat the door to the mod. The pot (potentiometer) dial, located on the side of the device, provides an easy scaled reference for power output. Turn the pot dial to approximately 30%. Install an atomizer, with a build resistance of 0.2Ω (Ohms) or higher, onto the 510 connector. Depressing the fire button will energize the coil of the atomizer. To change the output power of the device, turn the pot dial clockwise (to increase power) or counter-clockwise (to decrease power).

The *Kraken* has several additional modes of operation. A small LED indicator is located just above the top of the battery tray to denote the various device conditions. To protect the device and user, it can be locked to prevent firing. If the device is firing for more than 10 seconds, it will “auto lock” and prevent further firing until the device is unlocked. The LED indicator will also warn the user when the batteries are low and considered fully drained. To protect the batteries from over discharge, the device will not fire if the batteries are drained.

If using an atomizer build of lower 0.2Ω, the device may fire briefly then completely fail to fire. This condition is likely caused by use of improper batteries.

## **LOCK/UNLOCK**

The *Kraken* can be locked to prevent accidental firing. To LOCK the device, depress the fire button three times within one second. The LED indicator will blink 4 times to confirm the device has been locked. To UNLOCK, depress the fire button three times within one second. The LED indicator will blink 4 times to confirm the setting.

## **LOW VOLTAGE CUTOFF**

While it's always a good idea to monitor the battery voltage. The *Kraken* will warn you when the batteries are drained. If the user notices no vapor production, open the door and observe the LED when the fire button is briefly pressed. When the batteries are drained, the device will not fire and the LED will blink rapidly 7 times.

When the battery cutoff indicator is blinking, immediately remove and recharge the batteries. Because there is still approximately 4mA of idle current drain, keeping them in the device, when not in use, WILL result in the continued drain of the batteries and may cause permanent damage to the batteries, device, and/or user.

## **REGULATED MODE**

By default, the *Kraken* is set to “Unregulated” mode. It can be used like any other PWM device. The pulse width can be adjusted using the pot as normal, but as the batteries drain, the output voltage will also decrease. To achieve consistent output voltage, the *Kraken* has a special “Regulated” mode. Once set, it will automatically adjust the duty cycle up, as needed, to maintain the desired output voltage and provide a consistent vape. The device will hold this setting even after the batteries have been changed.

When in “Unregulated” mode, and after you have your pot setting dialed in, you can lock the output and switch to “Regulated” mode by locking the device (4 blinks from the indicator) and holding the fire switch for 3.5 seconds. The LED will indicate that the setting has been saved by flashing 3 times quickly.

Note - To return to “Unregulated” mode, repeat the same procedure. The LED will blink 1 time indicating the mode has been changed.

## **SAFETY CONSIDERATIONS**

***NEVER* use an atomizer less than 0.2Ω.**

**Regularly monitor the temperature of the installed batteries.**

***ALWAYS* use batteries each capable of providing 40A or more of current.**

**Regularly monitor the battery voltages.**

***NEVER* over draw the batteries or allow to less than 3.2V per battery cell (no load).**

***NEVER* use old or damaged batteries.**

***NEVER* directly “short out” the atomizer or batteries.**

***NEVER* insert metallic objects into the device.**

***NEVER* attempt to alter the electronic components in the device.**

**When in use, always keep the battery access door firmly attached.**

**When drained, *ALWAYS* remove and recharge batteries immediately.**

***Never* leave batteries in the device for extended periods of time without use.**

## **WARRANTY COVERAGE**

Your *Kraken* device comes with a Limited Lifetime Warranty. Only the device’s electronic components are covered under warranty. Fit and finish **is not** covered under warranty. Improper use of the device will immediately void the warranty. In addition, the following conditions will void the warranty:

Tampering with or removing electronic components

Tampering with or removing any of the protective coating(s)

Damage to the device from impact (ie. dropping, throwing, etc.)

Introducing foreign objects into the device

Shorting the atomizer or 510 connector

Disassembling all or part of the device.

Breaking/destruction of internal parts of the device

Using an atomizer less than 0.2Ω and/or results in MOSFET “blowing”

## **TROUBLE SHOOTING GUIDE**

Problem	Suggested Solutions
Atomizer fails to get hot	<ul style="list-style-type: none"><li>• Ensure the atomizer is firmly seated on the 510 connector.</li><li>• Ensure batteries are charged.</li><li>• Check atomizer resistance for compliance with device specifications</li><li>• Ensure atomizer is not shorted</li><li>• Fully depress the fire button</li></ul>
Batteries are hot	<ul style="list-style-type: none"><li>• Ensure atomizer is not shorted</li><li>• Check atomizer resistance for compliance with device specifications</li><li>• Ensure there are no foreign objects inside the device.</li><li>• Check batteries for damage</li><li>• Replace batteries with those that are capable of providing more than 40A of current</li><li>• Allow more time in between vaping draws (don't "chain vape")</li></ul>
Batteries quickly drain	<ul style="list-style-type: none"><li>• Turn down the power output of the device</li><li>• Check the batteries for damage</li><li>• Replace batteries with those that are capable of providing more than 40A of current</li><li>• Check the atomizer resistance for compliance with device specifications</li></ul>
Inside of device has distinct burnt smell or electronic components are emitting smoke	<ul style="list-style-type: none"><li>• Immediately remove batteries, allow to cool, and contact Chalet Manufacturing for possible warranty service</li></ul>
All other issues	<ul style="list-style-type: none"><li>• Remove batteries and contact Chalet Manufacturing for additional assistance or possible warranty service</li></ul>

## **CONTACT US**

For Warranty and/or other inquiries, please contact us at:

Chalet Manufacturing  
[www.ChaletMFG.com/contact.html](http://www.ChaletMFG.com/contact.html)