



***NANO Micro 98V/AG  
Battery Pack  
Instructional Manual***

***THIS BATTERY SHIPS IN STORAGE MODE.***

***Press the LED button to awaken the battery pack. You may also charge the battery pack full to awaken. Keep in mind some 3<sup>rd</sup> party chargers will not charge the pack when in storage mode. If the battery is in storage mode(LCD blank), the battery pack is functional, but no smart data transmission will occur.***

***Introduction:***

Thank you for your choice in purchasing a Core SWX battery pack. The battery is designed to improve and assist you in your mobile powering requirements. This product is at the pinnacle of technological advancements, offering the features and performance of several different products, making it the most advanced battery product in the industry.

Please read this manual to help you understand and capitalize on the features of this battery.

***Features:***

- On-Board Microprocessor stores: Name, Serial Number, Voltage, Temperature, Current, Chemistry Type, Charge Cycles, and Date of Manufacturing.
- The Viewfinder Capacity Display communicates with the camera to display your remaining battery capacity in your camera's viewfinder. This includes Sony, BMD, ARRI and RED models.
- Four Stage, accurate, LED power gauge.
- No memory effect.
- Temperature, current, and voltage protection.
- Rubberized casing provides a shock absorbing, non-slip shell to protect the battery pack.
- Incorporated ptap output as well as a 5v USB. The USB can also be used as a firmware update port.

\*contact Core SWX for confirmation of battery charger compatibility if using other chargers.

***Operation:***

***1. Charging the Battery:***

- CoreSWX Helix batteries were designed to be used with Core SWX chargers. Any other charger may damage the battery and/or the charger. Please contact us before using other chargers.
- CoreSWX batteries can be recharged in any charge condition.
- Charge the battery in ambient temperature range of 0°C and 45°C. For best results charge in an environment between 10°C and 35°C. Charging in conditions outside the aforementioned ranges may inhibit the pack from reaching maximum charge capacity.

***2. Discharging the battery:***

- Maximum continuous discharge for the is 10A(120W) with a 10second peak discharge rate of maximum continuous discharge at 14V is 10A.
- Press the side LED button for 1 second to activate the backlight feature.
- During operation, the battery samples the current entering or exiting the battery in 7 second intervals. During the charging process, the charge current fluctuates, causing the Charge Time readings to vary.

## ***LED Indication Guide:***

### **Battery Charge Level:**

**1 Segment: 0-24%**

**2 Segment: 25-49%**

**3 Segment: 50-74%**

**4 Segment: 75%-100%**

Over time the power gauge's accuracy is dependent upon a full charge and discharge. At least once every 2 months the battery should be fully cycled(discharged and recharged) so the battery can relearn the capacity of the battery.

### ***Camera Communication:***

Once connected to a camera which supports SMBUS or single-line data communication, the battery will convey, in realtime, power data to the camera.

### ***Nano Micro Hi-Draw Capabilities:***

The Core Nano line is unique in that the packs can sustain up to 10A loads for continuous discharge. To keep the packs working at optimal performance, we recommend monitoring discharge when the battery packs get close to EOD(end of discharge). If monitoring via voltage, this would be near 13v. The key to maximum service life is proper usage.

The battery's integrated Ptap power solution also works to deliver DC 11-16.8v of power output as well as charging input capabilities. The ptap is fused based on the battery packs' overall output capabilities.

For additional dynamic charging options, the battery offers USB-A aux connection as well that provides DC 5v, 3A in power for mobile device charging.

### ***Battery Storage:***

In the event the battery pack won't be used for an extended period of time, store the battery pack at 40% charged in an environment between 10°C and 35°C. Every two months the battery pack should be fully cycled to reduce the change of self discharge and capacity loss.

### ***Reset/restore Function:***

In the event the battery shuts down, it is possible the battery pack's protection internal circuitry was activated. To restore the pack, following the steps below:

1. If it's an Anton/Bauer® charger, and the battery is fully depleted, continually connect and disconnect the pack on the charger several times to reach a minimum voltage so the charger recognizes the battery.
2. Reset the sleep mode function by pressing the LED button for 15 to 30 seconds.
3. There is a hard reset button in between the two ptap terminals. Press it and then after 5 seconds press the side LED button to wake up the pack.
4. Fully charge/discharge the battery to cycle

### ***Firmware Update Function:***

The battery packs come with a multifunctional USB port that serves both as a 5V output for charging or powering devices and as a port for firmware updates. To initiate a firmware update or perform device charging, follow these steps: First, put the battery into sleep mode by holding the LED button for 20-30 seconds until the LCD screen goes blank. Then, connect the battery to a computer using a USB-A to USB-A Data cable, which should prompt the battery to appear as an empty removable drive on the computer. Next, simply click and drag the desired file into the drive, ensuring proper transfer. Once the transfer is complete, disconnect the battery from the computer. It's advisable to wait for 3 to 5 minutes before attempting to wake the battery up or placing it on a charger to ensure proper functionality.

### ***Notes on Use:***

- An increase in temperature is normal during charging and discharging.
- Make sure to keep battery contacts clean.
- Do not attempt to disassemble the battery. Please contact Core SWX for any service issues.
- Keep batteries separated when transporting.
- Keep battery pack dry and avoid use in humid environments.

### ***NANO-V98, NANO-G98 Air Transport Compliance***

The battery pack models listed above are suitable for air transport as a non-hazardous article under the regulations of the IATA, the ICAO, and the UN. According to IATA regulations, Lithium-ion batteries may not be checked into the hold of a passenger aircraft, however, the NANO98 battery pack may be taken on-board in your carry-on baggage subject to the prior approval of your airline. Check with your airline's rules for specific limitations. Spare batteries should be individually protected to prevent the possibility of short circuits.

\* Section A45-2: Lithium cells and lithium batteries are not subject to these instructions if they meet the following requirements: For a lithium ion battery the aggregate equivalent content is not more than 8g

## Specification Data:

NANO-V98: V-mount Connection  
NANO-G98: 3-Stud Mount Connection

**Capacity:** 98Wh(14.8v, 6.6Ah)

**Operational Voltage:** DC 12v-16.8v

**Charge Temperature:** 0° TO 45°C

**Discharge Temperature:** -20°C TO 60°C

**Size:** 2.82" x 3.93"x 1.94"

**Weight:** 1.2 lbs.

**Normal Runtime:** (25w) 3.6hrs.

**Load:** 10A

## Ver. 1.1 Manual updated January 2024

### Warranty:

This product is warranted to the Original Purchaser against all defects in material and or workmanship for the period herein.

The warranty period shall be, 2 years for parts and labor, unless otherwise noted. Core SWX agrees to pay equal return freight costs to return the product the same method it was received. In the event of an issue, purchaser agrees to the below RMA procedure.

Procedure:

1. Go to <http://www.coreswx.com> and to the the support section to fill out the online RMA form.
2. Print the RMA number confirmation, and ship the product needing service to Core SWX, LLC. along with RMA number confirmation, and copy of bill of sale.
3. All shipments must be done either through UPS or FEDEX, and insured if necessary
4. Core SWX, LLC. is not responsible for any lost shipments.

Core SWX reserves the right to repair or replace any defective product under warranty after Core SWX determines which is more practical.

If Core SWX receives defective product for warranty repair and they are found to be defective as a result of misuse or other damage, not caused by normal wear and tear, Core SWX will notify the customer of an estimate of repair. Customer will incur costs. There are no further warranties, either expressed or implied, including warranties of merchantability or fitness for a particular purpose that has any bearing upon this transaction.



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