



NANO[®]VBR
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 3rd party chargers will not charge the pack when in storage mode.

Thank you for your choice in purchasing a Core SWX battery. 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.
- Four Stage, accurate, LED power gauge.
- No memory effect.
- Temperature, current, and voltage protection.
- Incorporated 2-pin powertap provides unregulated power (10A)

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

Operation:

Charging the Battery:

- CoreSWX NANOM battery packs were designed to charge with OEM Panasonic chargers
- CoreSWX batteries can be recharged in any charge condition.
- Charge the battery in the 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.

Discharging the battery:

- Maximum continuous discharge for the is 10A(120W) with a 10s second peak discharge rate of 12A(144W)

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 real time, power data to the camera.

Ptap Connection:

The battery's integrated Ptap power solution also works to deliver DC 12v-16.8v of power output though is unable to input charge to the battery. The ptap is fused based on the battery packs' overall output capabilities. The P-Tap is a Smart Tap that is able to carry SMBUS/smart battery data which is a feature part of future integration. This power tap will serve as a standard powertap without need of special cabling.

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.

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-VBR Air Travel 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 NANO-VBR 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:

Capacity: 98wh (7.4v, 13200mah)

Operational Voltage: DC 12v-16.8v

Powertap Output: 12vdc (2A/24watt max)

Size: 4" x 2.6" x 1.65"

Weight: 0.9lbs

Normal Runtime: 5hrs. based off of Panasonic EVA1 draw

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 1 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, the purchaser agrees to the below RMA procedure.

Procedure:

1. Go to <http://www.coreswx.com/repairsreturns> and fill out the online form
2. Print the RMA number confirmation, and ship the product needing service to Core SWX, LLC. along with RMA number confirmation, and a copy of the 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.



91B Commercial St. Plainview NY 11803 USA

Web: www.coreswx.com Email: sales@coreswx.com

Tel: +1 516-595-7488 Fax: +1 516-595-7492

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Patents Pending