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> User Manual for PowerSmart Li-ion Battery Pack for Hitachi Camcorders

PowerSmart Various Hitachi DZ-GX Series Camcorders

User Manual for PowerSmart Li-ion Battery Pack

Model Compatibility: Various Hitachi DZ-GX Series Camcorders

Brand: PowerSmart

1. OVERVIEW

This manual provides essential information for the safe and effective use of your PowerSmart Li-ion rechargeable battery pack. This battery is designed as a high-quality replacement for original Hitachi camcorder batteries, offering reliable power for your device.

Please read this manual thoroughly before using the battery to ensure proper handling, charging, and maintenance, which will extend the battery's lifespan and ensure optimal performance.



Figure 1.1: Top view of the PowerSmart Li-ion Battery Pack. This image shows the battery's main body with the "Li-ion BATTERY PACK" label clearly visible on the top surface.

2. SETUP AND FIRST USE

2.1 Initial Charging

Before first use, it is recommended to fully charge the battery. Use only a charger specifically designed for Li-ion batteries and compatible with the voltage requirements (7.2V or 7.4V) of this battery pack.

1. Insert the battery into a compatible Li-ion battery charger.
2. Connect the charger to a power source.
3. Allow the battery to charge until the charger's indicator shows a full charge. This may take several hours depending on the charger and the battery's initial charge level.

2.2 Installing the Battery

To install the battery into your Hitachi camcorder:

1. Ensure the camcorder is powered off.

2. Locate the battery compartment on your camcorder. Refer to your camcorder's user manual for specific instructions.
3. Align the battery with the compartment, ensuring the contacts on the battery match the contacts in the camcorder.
4. Gently slide the battery into place until it clicks securely. Do not force the battery.



Figure 2.1: Angled view of the PowerSmart Li-ion Battery Pack, showing the side label. This image highlights the PowerSmart logo and model number VPS010.533, along with importer information.

3. OPERATING THE BATTERY

3.1 Powering Your Camcorder

Once the battery is securely installed and charged, you can power on your camcorder as per its operational instructions. The battery provides stable power for recording, playback, and other camcorder functions.

3.2 Battery Life and Usage

- Battery life varies depending on camcorder usage (e.g., continuous recording, LCD screen brightness, zoom usage).
- Monitor the battery indicator on your camcorder to avoid unexpected power loss during critical moments.
- For extended recording sessions, consider having a fully charged spare battery.



Figure 3.1: Angled view of the PowerSmart Li-ion Battery Pack, showing both the side label and the electrical contacts. This image provides a clearer view of the battery's connection interface.

4. MAINTENANCE AND STORAGE

4.1 Charging Practices

- Avoid overcharging or deep discharging the battery, as this can reduce its lifespan.
- Charge the battery in a well-ventilated area, away from direct sunlight or extreme temperatures.
- If the battery is not used for an extended period, charge it to about 50-70% capacity before storing.

4.2 Cleaning

Wipe the battery and its contacts with a clean, dry cloth. Do not use liquid cleaners or solvents.

4.3 Storage

- Store the battery in a cool, dry place, away from direct heat sources or extreme cold.
- Keep the battery away from metal objects (e.g., coins, keys) to prevent short circuits.
- For long-term storage, remove the battery from the camcorder.



Figure 4.1: Bottom view of the PowerSmart Li-ion Battery Pack, displaying the warning label. This image clearly shows the battery's specifications (7.2V, 720mAh/5.2Wh) and safety warnings such as "DO NOT SHORT CIRCUIT" and "USE SPECIFIED CHARGER ONLY".

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Battery not charging	Charger not connected properly. Battery not seated correctly in charger. Faulty charger or battery.	Ensure charger is plugged in and power outlet is active. Re-seat the battery firmly in the charger. Try a different compatible charger or test the battery in another compatible device if possible.

Problem	Possible Cause	Solution
Camcorder not powering on with battery	<ul style="list-style-type: none"> Battery not charged. Battery not installed correctly. Battery contacts are dirty. Battery or camcorder malfunction. 	<ul style="list-style-type: none"> Charge the battery fully. Remove and re-install the battery, ensuring it clicks into place. Clean battery and camcorder contacts with a dry cloth. Test with another known good battery if available. Consult camcorder manual for device-specific issues.
Short battery life	<ul style="list-style-type: none"> Battery not fully charged. High power consumption settings on camcorder. Battery degradation over time. 	<ul style="list-style-type: none"> Ensure battery is fully charged before use. Adjust camcorder settings (e.g., reduce LCD brightness, turn off unnecessary features). Consider replacing the battery if it's old or shows significant capacity loss.



Figure 5.1: Close-up view of the battery's electrical contacts. This image shows the four gold-plated pins that connect the battery to the camcorder or charger, crucial for power transfer.

6. SPECIFICATIONS

Feature	Detail
Brand	PowerSmart
Battery Type	Lithium-ion (Li-ion)
Voltage	7.2 V (compatible with 7.4 V)
Capacity	720 mAh (Milliampere-hour) / 5.2 Wh
Amperage	20 A
Dimensions (L x W x H)	41.42 x 36.05 x 17.00 mm
Weight	85.05 g
Reusability	Rechargeable
Compatible Devices	Various Hitachi DZ-GX Series Camcorders (e.g., DZ-GX20, DZ-GX3100, DZ-GX5020, etc.)

7. WARRANTY AND SUPPORT

This product is supplied by PowerSmart. For any warranty claims or technical support, please contact the seller directly. Information regarding returns and seller details can typically be found on the purchase platform.

The seller for this product is "Batterie Center". Please refer to your purchase receipt or order details for their contact information and specific warranty terms.

For general inquiries or to learn more about PowerSmart products, you may visit the official PowerSmart website or contact their customer service if available.