

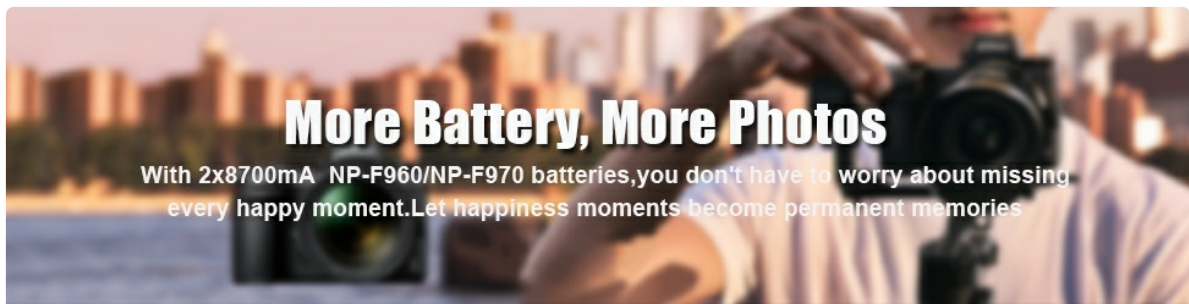
Bonacell NP-F970, NP-F960

Bonacell NP-F970/NP-F960 Replacement Battery User Manual

Model: NP-F970, NP-F960

INTRODUCTION

Welcome to the Bonacell NP-F970/NP-F960 Replacement Battery User Manual. This guide provides essential information for the safe and effective use of your new batteries. These high-capacity lithium-ion batteries are designed as replacements for various Sony NP-F series batteries, offering extended power for compatible cameras, camcorders, and LED video lights.



NP-F960/NP-F970 BATTERY

Compatible with the Sony DCR-VX2100, DSR-PD150, DSR-PD170
FDR-AX1, HDR-AX2000, HDR-FX1, HDR-FX7, HDR-FX1000
HVL-LBPB, HVR-HD1000U, HVR-V1U, HVR-Z1P, HVR-Z1U
HXR-MC2000U, MVC-FDR1



DSR-PD170

FDR-AX1

HDR-AX2000

HDR-FX1000



Image: Bonacell NP-F970/NP-F960 batteries highlighting their key specifications for extended use.

SAFETY INFORMATION

Please read and follow all safety instructions carefully to prevent damage to the batteries, your devices, and to ensure personal safety.

General Safety Precautions:

- Do not disassemble the battery.
- Do not dispose of the battery in fire.
- Do not store the battery in temperatures over 60°C (140°F).
- Keep batteries away from water and moisture.
- Avoid short-circuiting the battery terminals.
- Keep out of reach of children.

Built-in Protections:

The batteries feature multiple layers of protection, including short-circuit, over-charge, over-voltage, over-current, and high-temperature protection, ensuring safety for both the batteries and your devices.

Safe and Reliable

Features with multi layers of protection with a high-quality, fire-resistant construction, ensure complete protection for you and your devices



Prevent Over Charging



Prevent Over Current



Prevent Over Voltage



Prevent Electronic Shock



Prevent Short Circuit



Prevent Over Temperature

Image: Illustration of the multiple safety protections integrated into the Bonacell batteries.

PACKAGE CONTENTS

Your Bonacell NP-F970/NP-F960 Replacement Battery package includes:

- 2 x Bonacell NP-F970/NP-F960 Replacement Batteries

SETUP

Initial Charging:

Before first use, fully charge both batteries. Charging times can vary depending on the charger used; some users report initial charges taking up to 20 hours, while subsequent charges may be shorter (e.g., 14 hours or 6 hours from 50% charge). Always use a compatible charger.

No Memory Effect

High grade digital battery with advanced lithium technology ensures maximum battery life and power. It has no memory effect or other negative effects in recharging.



Image: A Bonacell battery being charged, illustrating the charging process.

Installation:

Align the battery with the battery compartment of your compatible device (camera, camcorder, or LED light) and slide it in until it clicks securely into place. Ensure correct polarity for proper function.

OPERATING INSTRUCTIONS

Compatibility:

These batteries are compatible with devices that use Sony NP-F mount batteries. This includes, but is not limited to, the following models:

- **Sony Camcorders/Cameras:** DCR-VX2100, DSR-PD150, DSR-PD170, FDR-AX1, HDR-AX2000, HDR-FX1, HDR-FX7, HDR-FX1000, HVL-LBPB, HVR-HD1000U, HVR-V1U, HVR-Z1P, HVR-Z1U, HXR-MC2000U, MVC-FDR1, NEX-EA50UH, NEX-FS100U, NEX-FS700U.
- **Replacement for Sony Battery Models:** NP-F990, NP-F980, NP-F975, NP-F960, NP-F950, NP-F930, NP-F770, NP-F750, NP-F750SP, NP-F730, NP-F570, NP-F550, NP-F530, NP-F330.
- **Other Devices:** SAMTIAN, Neewer, YONGNUO, VILTROX series LED video lights, ring lights, Atomos recorders, and other devices using NP-F mount batteries.

Compatible Models



Image: Visual representation of compatible camcorder models with Bonacell NP-F batteries.

Replacement NP-F960/F970 Battery

Replace for Sony Battery NP-F990 NP-F980 NP-F975 NP-F960 NP-F950 NP-F930
NP-F770 NP-F750 NP-F750SP NP-F730 NP-F570 NP-F550 NP-F530 NP-F330



Image: A list of Sony NP-F series battery models that the Bonacell batteries are designed to replace.

No Memory Effect:

The advanced lithium technology ensures that the batteries can be charged or discharged as needed without losing capacity. This allows for flexible charging without negative effects on battery life or performance.

MAINTENANCE

Charging:

Always use a compatible charger. While the batteries have built-in overcharge protection, it is good practice to remove the battery once fully charged to prolong its lifespan.

Storage:

Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures. For long-term storage, charge batteries to approximately 50-60% capacity to maintain cell health.

Cleaning:

Periodically clean the battery terminals with a dry, clean cloth to ensure good electrical contact with your device and charger.

TROUBLESHOOTING

Battery Not Charging:

- Ensure the charger is properly connected to a power source and the battery.
- Verify the charger is compatible with NP-F series batteries.
- Check for any visible damage to the battery or charger.

Battery Not Powering Device:

- Confirm the battery is fully charged.
- Ensure the battery is correctly inserted into the device's battery compartment.
- Verify that your device is listed as compatible. Some devices, such as the Sony Z5U, may display compatibility warnings with third-party batteries, even if they function for a short period.

Short Operating Time:

- Ensure the battery was fully charged before use.
- Operating in cold environments can significantly reduce battery performance and lifespan.
- Devices with high power consumption will drain the battery faster.

SPECIFICATIONS

Feature	Detail
Model	NP-F970/NP-F960 Replacement Battery
Cell Type	Lithium-Ion
Voltage	7.2V DC
Capacity	8700mAh (62.64Wh)
Dimensions	Approx. 2.78 x 2.36 x 1.51 inches
Item Weight	Approx. 11.2 ounces (per battery)
Manufacturer	Bonacell
ASIN	B0789HXHT9

The size & function same as the original



Image: Detailed dimensions of the Bonacell NP-F970/NP-F960 battery.

WARRANTY AND SUPPORT

For any questions, technical support, or warranty inquiries regarding your Bonacell NP-F970/NP-F960 Replacement Batteries, please contact Bonacell customer service. Refer to your purchase documentation for specific warranty terms and contact information.

You can typically find support contact details on the product packaging or the retailer's website where the product was purchased.

