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Seafrogs VPS-102 Electric Vacuum Pump Instruction Manual

Model: VPS-102 | Brand: Seafrogs

1. PRODUCT OVERVIEW

The Seafrogs VPS-102 Electric Vacuum Pump is designed to simplify the vacuum leak check process for compatible underwater camera housings. This device works in conjunction with the Seafrog VPS-100 Vacuum Leak Check System and Seafrogs Aluminum Alloy housings that feature a built-in vacuum system. It serves as an efficient replacement for the manual pump handle, enabling hands-free operation and ensuring a secure seal for your camera housing.



Figure 1: Seafrogs VPS-102 Electric Vacuum Pump attached to a compatible underwater camera housing.

2. SAFETY INFORMATION

- Ensure the device is used only with compatible Seafrogs VPS-100 Vacuum Leak Check Systems and housings.
- Do not attempt to disassemble or modify the pump, as this may void the warranty and cause malfunction.
- Keep the device away from water and extreme temperatures when not in use.
- Store in a cool, dry place.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Seafrogs VPS-102 Electric Vacuum Pump
- Protective Cap
- User Manual (this document)



Figure 2: Seafrogs VPS-102 Electric Vacuum Pump with protective cap.

4. SETUP AND BATTERY INSTALLATION

The VPS-102 requires an 18650 battery (not included) for operation. Follow these steps to install the battery and prepare the pump:

1. Unscrew the bottom cap of the VPS-102 Electric Vacuum Pump.
2. Insert one 18650 battery into the compartment, ensuring correct polarity.
3. Screw the bottom cap back on securely.
4. Locate the vacuum port on your compatible Seafrogs underwater camera housing.
5. Ensure the housing's vacuum valve is properly installed and the O-ring is clean and lubricated.
6. Remove any protective cap or plug from the housing's vacuum valve.
7. Attach the VPS-102 Electric Vacuum Pump to the housing's vacuum valve by screwing it clockwise until snug. Do not overtighten.



Figure 3: Bottom view of the VPS-102, indicating the 18650 battery compartment.

5. OPERATING INSTRUCTIONS

The VPS-102 Electric Vacuum Pump automates the vacuum leak check process. This is a significant improvement over manual pumping, which can be time-consuming and require continuous effort.

5.1. Manual Pump Operation (for comparison)

Your browser does not support the video tag.

Video 1: This video demonstrates the operation of a manual vacuum pump handle, which the VPS-102 electric pump replaces for a more effortless process.

5.2. Electric Vacuum Pump Operation

1. After attaching the VPS-102 to the housing's vacuum valve, press the power button on the pump. The LED indicator on the housing's vacuum valve will turn red, indicating that the vacuum process has started.
2. The pump will automatically extract air from the housing. Monitor the LED indicator on the housing's vacuum valve.
3. Once the desired vacuum level is reached and the housing is sealed, the LED indicator will change from red to green. This signifies a successful vacuum check.
4. Allow the housing to sit for approximately 15-20 minutes with the green LED illuminated to confirm no pressure loss, indicating a perfect seal.
5. To release the vacuum, gently press the button on the housing's vacuum valve for a few seconds until the LED turns off.
6. Unscrew the VPS-102 Electric Vacuum Pump from the housing.
7. Replace the protective cap or plug on the housing's vacuum valve.



Figure 4: The VPS-102 Electric Vacuum Pump in operation, showing the green LED indicator for a successful seal.

5.3. Electric Pump Operation Demonstration

Your browser does not support the video tag.

Video 2: A demonstration of the Sea Frogs VPS-102 Electric Vacuum Pump in action, showing the transition from red to green LED upon successful vacuum.

6. MAINTENANCE

- After each use, wipe the exterior of the pump with a clean, dry cloth.
- Ensure the vacuum valve and its O-ring on the housing are clean and free from debris. Lubricate the O-ring regularly with silicone grease to maintain its sealing properties.
- When storing the pump for extended periods, remove the 18650 battery to prevent leakage.
- Store the pump in its protective cap to prevent dust and damage to the connector.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not turn on.	Battery is dead or incorrectly installed.	Check battery polarity, replace with a charged 18650 battery.
LED indicator remains red or does not turn green.	Leak in the camera housing or improper seal.	Check O-rings, ensure housing is properly closed, inspect for debris or damage. Re-attempt vacuum check.
Pump makes unusual noises.	Internal malfunction.	Discontinue use and contact customer support.

8. SPECIFICATIONS

- **Model:** Seafrogs VPS-102
- **Operating Voltage:** 3.7V
- **Battery Type:** 18650 (Purchased Separately)
- **Maximum Travel Time:** Approximately 9 Hours
- **Product Size:** W51 x D30 x H96mm
- **Product Weight:** 79g (Without Battery)
- **Compatibility:** Seafrog VPS-100 Vacuum Leak Check System, Seafrogs Aluminum Alloy housings with built-in Vacuum system.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please contact HolaFoto customer service. If you have questions before purchasing, visit the seller profile on Amazon and look for "Have a question for HolaFoto?". For existing orders, navigate to your Amazon Order Page and click "problem with this order". Customer service typically responds within 24 hours during working days.