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> [VILTROX V-Mount Battery BP-V99 \(6700mAh\) Instruction Manual](#)

## VILTROX BP-V99

# VILTROX V-Mount Battery BP-V99 (6700mAh) Instruction Manual

Model: BP-V99

## INTRODUCTION

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This manual provides essential information for the safe and effective use of your VILTROX BP-V99 V-Mount Battery. Please read this manual thoroughly before operating the product and retain it for future reference.

## PRODUCT OVERVIEW

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The VILTROX BP-V99 is a high-capacity V-Mount/V-Lock battery designed to power professional camera equipment, camcorders, monitors, and LED lights. It features multiple output interfaces and an OLED display for monitoring battery status.

## Key Features

- **High Capacity:** 6700 mAh (99Wh/14.8 V) for extended operation.
- **Versatile Interfaces:** Dual D-TAP, USB-C, USB-A, and BP ports for powering multiple devices simultaneously.
- **Bi-directional 45W PD Fast-Charging:** USB-C port supports rapid charging and discharging.
- **Intelligent Control Protection:** Built-in BMS intelligent chips for safety against overcharging, short circuits, high temperatures, and surges.
- **OLED Display Screen:** Provides real-time information on current, voltage, and capacity.
- **Portable Design:** Compact and lightweight, compliant with air transportation regulations.

## Interface Details



Image: Front and back view of the VILTROX BP-V99 battery, highlighting the D-TAP (In/Out), USB-A (Out), Type-C (In/Out), BP (Out) ports, and the OLED display.

- **D-TAP (In/Out):** 16.8V/5A (Max) for input, 16.8-11V/10A (Max) for output.
- **USB-A (Out):** 5V/3A, 9V/2A, 12V/1.5A.
- **Type-C (In/Out):** Supports PD45W, 20V/2.25A, 5V/9V/12V/15V/3A.
- **BP (Out):** 16.8-11V/10A (Max).
- **V-Mount/V-Lock:** Standard mounting interface for compatible devices.

## SETUP AND CHARGING

### Charging the Battery

The BP-V99 battery supports bi-directional 45W PD fast-charging via its USB-C port. A full charge typically takes approximately 2.5 hours.



Image: The VILTROX BP-V99 battery connected to a power adapter via its USB-C port for fast charging. The OLED screen displays charging status.

**Important Note:** To prevent overheating and potential temperature protection activation, do not use the USB-C and D-TAP ports to charge the battery simultaneously.

### Installation

Attach the VILTROX BP-V99 battery to a compatible V-Mount or V-Lock plate on your camera, camcorder, monitor, or lighting

equipment. Ensure the battery is securely locked into place before operation.

Your browser does not support the video tag.

Video: Demonstrates the VILTROX V-Mount Battery being attached to a camera rig and powering various devices, including a laptop via USB-C.

## OPERATING INSTRUCTIONS

### Powering Devices

Connect your devices (DSLR cameras, camcorders, monitors, LED lights, smartphones, tablets, laptops, wireless video transmitters, etc.) to the appropriate output ports (D-TAP, USB-A, Type-C, BP) on the battery. The battery can power multiple devices simultaneously.



**Lightweight body with super power**  
allowed to be carried on the plane

Image: The VILTROX BP-V99 battery in use, powering a camera, a laptop, a smartphone, and an LED light, demonstrating its wide application.

### OLED Display Usage

The integrated OLED screen provides real-time information. Press the on/off button to view the battery's current, voltage, and remaining capacity percentage. This allows you to monitor the battery's working status and avoid unexpected power loss during use.

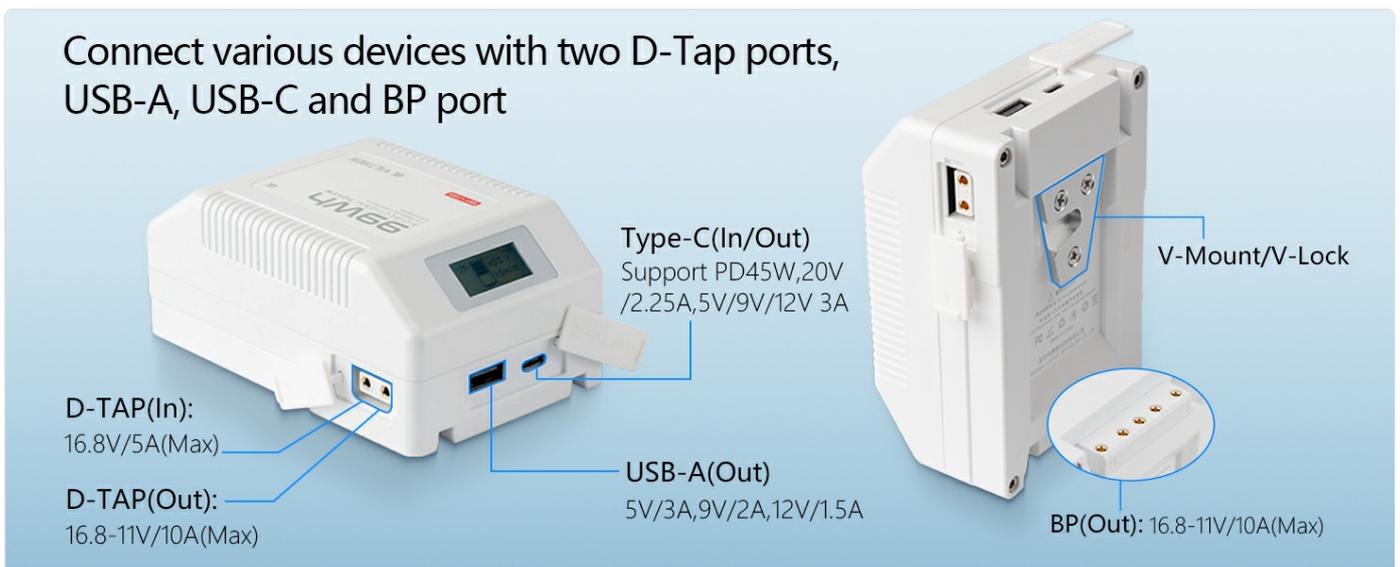


Image: Close-up of the VILTROX BP-V99 battery's OLED display, showing voltage, current, and remaining battery percentage.

## SAFETY AND PROTECTION

The VILTROX BP-V99 battery incorporates an intelligent control protection system with BMS intelligent chips and double PCB panels. This system ensures safety and stability through various protective features:



## Intelligent LCD Indicator

Check the battery capacity and status at a glance

*Image: Visual representation of the VILTROX BP-V99 battery's intelligent protection system, detailing features like overcharge, over-current, over-discharge, short-circuit, overvoltage, recovery, overheat, overpower, and electromagnetic field protection.*

- Overcharge Protection
- Over-current Protection
- Over-discharge Protection
- Short-circuit Protection
- Overvoltage Protection
- Recovery Protection
- Overheat Protection
- Overpower Protection
- Electromagnetic Field Protection

Always adhere to recommended charging and operating procedures to ensure optimal performance and safety.

## SPECIFICATIONS

Feature	Specification
Model	BP-V99
Battery Capacity	99Wh (6700mAh)
Voltage	14.8V
Battery Cell Composition	Lithium
D-TAP (In/Out)	Input: 16.8V/5A (Max), Output: 16.8-11V/10A (Max)
USB-A (Out)	5V/3A, 9V/2A, 12V/1.5A
Type-C (In/Out)	PD45W (20V/2.25A, 5V/9V/12V/15V/3A)
BP (Out)	16.8-11V/10A (Max)
Dimensions	4.5 x 2.9 x 2 inches (11.5 x 7.3 x 5 cm)

Feature	Specification
Item Weight	1.21 lbs (0.55 kg)
Air Travel Compliance	Complies with IATA, ICAO, TSA, and UN regulations

## MAINTENANCE

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- Store the battery in a cool, dry place away from direct sunlight and extreme temperatures.
- Avoid fully discharging the battery for extended periods. Recharge it periodically if not in use.
- Clean the battery contacts with a dry, soft cloth if necessary. Do not use liquids or abrasive cleaners.
- Do not disassemble, crush, or puncture the battery.
- Dispose of the battery according to local regulations for lithium-ion batteries.

## TROUBLESHOOTING

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### Battery Not Charging

- Ensure the USB-C cable and power adapter are functioning correctly and properly connected.
- Verify that only one charging port (USB-C or D-TAP) is used at a time for charging.
- Check the OLED display for any error messages or charging indicators.

### Device Not Receiving Power

- Confirm the battery is securely mounted to the V-Mount plate.
- Check the battery's charge level on the OLED display.
- Ensure the device is connected to the correct output port and that the cable is functional.
- Verify the device's power requirements are within the battery's output specifications.

### Overheating

- If the battery becomes excessively hot, disconnect it from all devices and charging sources immediately.
- Allow the battery to cool down in a well-ventilated area.
- Avoid charging and discharging simultaneously through USB-C and D-TAP ports.

## WARRANTY AND SUPPORT

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VILTROX provides a reliable backup power solution for photographers and filmmakers. For any questions or support needs, please contact VILTROX customer service directly. We are committed to resolving any situation where our product does not meet your expectations.

Contact information for support is typically found on the product packaging or the official VILTROX website.