

## PATONA 1698

# PATONA Premium V-Mount 4-Channel Smart Charger (Model 1698) User Manual

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient use of your PATONA Premium V-Mount 4-Channel Smart Charger, Model 1698. This compact charger is designed for parallel charging of up to four V-mount batteries and can also function as a DC power supply for various devices. Please read these instructions carefully before operation.

## 2. SAFETY INSTRUCTIONS

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- Do not expose the charger to rain, moisture, or extreme temperatures.
- Ensure proper ventilation during operation. The internal ventilation system requires clear airflow.
- Use only compatible V-mount batteries with this charger.
- Do not attempt to disassemble or modify the charger. Refer all servicing to qualified personnel.
- Disconnect the charger from the power outlet when not in use or before cleaning.
- The 4-pin XLR DC output cannot be used when the charger is connected to the mains power supply.
- Keep out of reach of children.

## 3. PACKAGE CONTENTS

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- 1x PATONA V-Mount 4-Channel Smart Charger (Model 1698)
- 1x 4-pin XLR DC Cable (170 cm)
- 1x EU Power Cable



Figure 3.1: Included EU power cable and 4-pin XLR DC cable.

## 4. PRODUCT FEATURES

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- **4-Channel Simultaneous Charging:** Charges up to four V-mount batteries in parallel.
- **Variable Charging Current:** Provides 3A (16.8V) for 1-2 batteries and 2A for 3-4 batteries.
- **DC Power Output:** Features a 4-pin XLR output (16.5V 4.5A / 75W max.) for powering external devices like LED lights, video cameras, or monitors.
- **Microcontroller Unit (MCU):** Ensures stable and constant energy supply for optimal charging and power delivery.
- **Internal Ventilation System:** Provides efficient cooling during operation to maintain performance and longevity.
- **Lightweight and Portable:** Compact design with a practical handle for easy transport.



Figure 4.1: PATONA V-Mount 4-Channel Smart Charger.

## 5. SETUP

1. **Unpack the Charger:** Carefully remove the charger and all accessories from the packaging.
2. **Position the Charger:** Place the charger on a stable, flat surface with adequate ventilation. Ensure the air vents are not obstructed.
3. **Connect to Power:** Insert the EU power cable into the AC input port on the rear of the charger and then plug the other end into a suitable mains power outlet.





Figure 5.1: Rear view of the charger with AC power input.

## 6. OPERATING INSTRUCTIONS

### 6.1. Charging V-Mount Batteries

1. **Attach Batteries:** Align the V-mount battery with one of the charger's V-mount plates and slide it down until it clicks securely into place. You can attach up to four batteries.

2. **Monitor Charging Status:** The LED indicators on the side panel will show the charging status. A red light typically indicates charging, while a green light indicates a full charge.
3. **Charging Current:** The charger automatically adjusts the charging current: 3A per channel when 1-2 batteries are connected, and 2A per channel when 3-4 batteries are connected.
4. **Remove Batteries:** Once fully charged, press the release button on the V-mount plate and slide the battery upwards to remove it.



Figure 6.1: Side view of the charger with V-mount battery plates.



Figure 6.2: LED indicators for charging status.

## 6.2. Using as a DC Power Supply

1. **Disconnect from Mains:** Ensure the charger is NOT connected to the AC mains power supply. The DC output function is only available when operating as a power bank.
2. **Connect External Device:** Use the provided 4-pin XLR DC cable to connect your compatible device (e.g., LED light, video camera, monitor) to the 4-pin XLR DC output port on the front of the charger.
3. **Power Output:** The charger provides a stable 16.5V DC output at a maximum of 4.5A (75W). Ensure your device is compatible with these specifications.





Figure 6.3: Front view of the charger with 4-pin XLR DC output.

### 6.3. Relevant Product Videos

This video demonstrates the features and usage of a SmallRig V-Mount battery, which is compatible with the PATONA V-Mount 4-Channel Smart Charger. It highlights the battery's various ports and how it can power camera equipment.

This video showcases the SmallRig VB99 mini V-Mount battery, illustrating its compact design and multiple output options. This type of V-mount battery can be charged by the PATONA V-Mount 4-Channel Smart Charger.

## 7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the charger. Do not use liquid cleaners or solvents.
- **Storage:** Store the charger in a cool, dry place away from direct sunlight and extreme temperatures.
- **Ventilation:** Regularly check that the ventilation openings are free from dust and debris.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not powering on	No power supply; faulty cable; power switch off.	Check power cable connection; ensure power outlet is active; verify power switch is on.
Batteries not charging	Battery not properly seated; incompatible battery; faulty battery.	Re-seat battery firmly; ensure battery is V-mount compatible; try a different battery.
DC output not working	Charger connected to mains; incompatible device; faulty XLR cable.	Disconnect charger from AC mains; verify device voltage/ampereage compatibility; test with another XLR cable.
Overheating	Obstructed ventilation; excessive load.	Ensure clear airflow around vents; reduce number of charging batteries or connected devices if possible.

## 9. SPECIFICATIONS

Feature	Detail
Brand	PATONA

Feature	Detail
Model	1698
Part Number	P1698b
Number of Ports	4 (V-Mount)
Charging Current (1-2 Batteries)	3A (16.8V) per channel
Charging Current (3-4 Batteries)	2A (16.8V) per channel
DC Output (XLR 4-pin)	16.5V, 4.5A (75W max)
Product Dimensions	27 x 10 x 22 cm
Item Weight	1.65 kg
Batteries Included	No
Batteries Required	No

## 10. WARRANTY AND SUPPORT

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PATONA products are manufactured with high-quality standards. For warranty information and support, please refer to the official PATONA website or contact your retailer. Keep your proof of purchase for any warranty claims.



Figure 10.1: Regulatory marks and manufacturer contact information.

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