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K&F Concept 50Wh V mount

K&F Concept 50Wh Mini V-Mount Battery

Model: 50Wh V mount

INTRODUCTION

This instruction manual provides detailed information on the K&F Concept 50Wh 3400mAh Mini V-Mount Battery. Please read this manual thoroughly before using the product to ensure proper operation, maximize performance, and maintain safety. Keep this manual for future reference.



Figure 1: K&F Concept 50Wh Mini V-Mount Battery

Product Features

- **65W PD3.0 Output:** Supports 65W Power Delivery fast discharge and 45W fast charge for quick power delivery to cameras, laptops, and tablets.
- **Multiple Interfaces:** Equipped with USB-C, USB-A, DC 12V, BP, and D-TAP ports for versatile device compatibility.
- **Real-time TFT Display:** A clear TFT screen provides real-time battery status, including charge levels and output information.
- **50Wh High-Capacity:** Offers 50Wh (3400mAh/14.8V) for extended photography and video sessions.
- **Compact & Travel-Friendly:** Smaller and lighter than traditional V-mount batteries, designed for portability and airline travel.
- **Built-in BMS Technology:** Ensures optimal performance and safeguards against short circuits, overcharging, overheating, over-voltage, over-discharge, and over-current.



Figure 2: 65W PD3.0 Fast Charging via USB-C

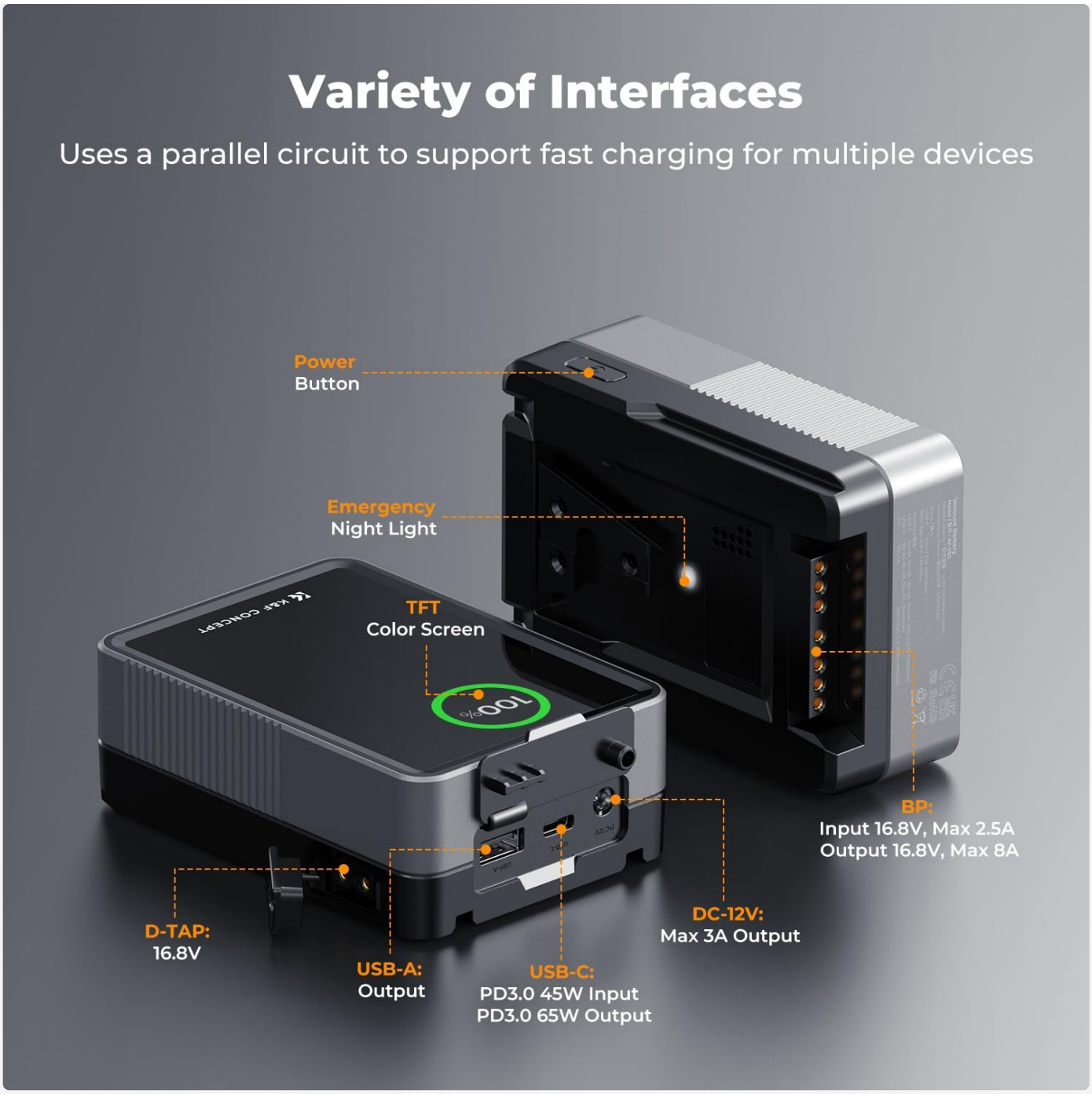


Figure 3: Variety of Interfaces for Versatile Applications



Figure 4: BMS Smart Protection Technology

Setup

Initial Charging

Before first use, fully charge the battery. Connect the provided 240W USB-C charging cable to the battery's USB-C port and a compatible 45W or higher power adapter. The TFT screen will indicate charging status.

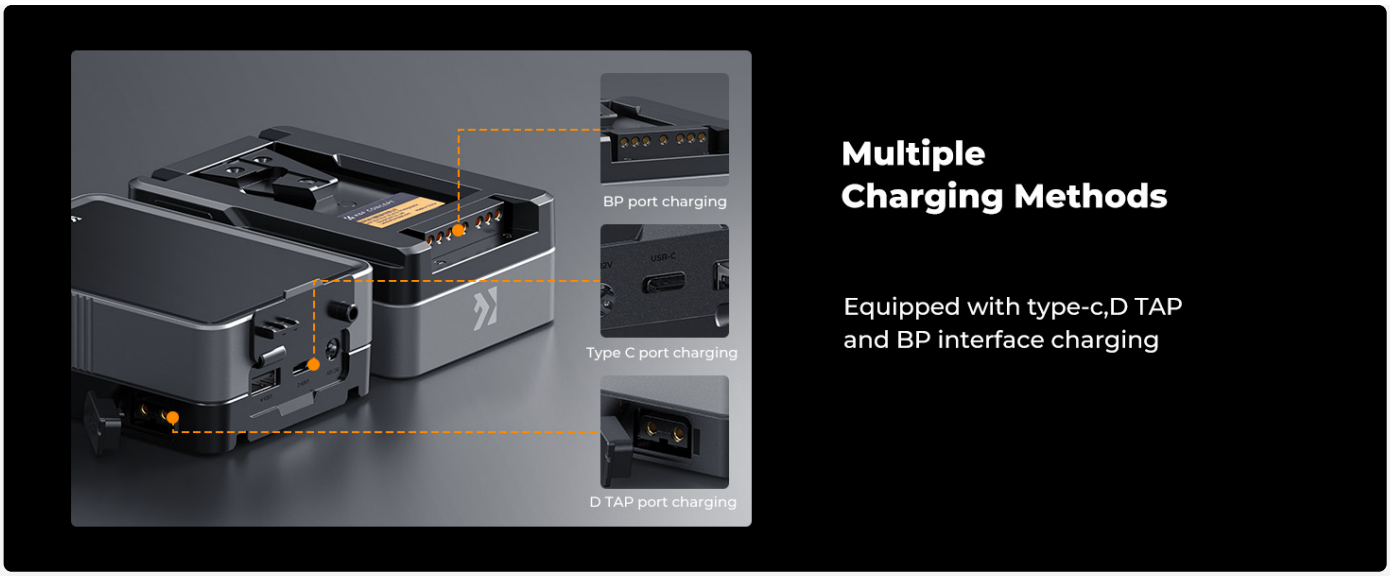


Figure 5: Battery Charging Setup

Mounting the Battery

The V-mount battery is designed to securely attach to V-mount plates on cameras, camcorders, or other compatible equipment. Align the battery with the V-mount plate and slide it down until it clicks into place, ensuring a secure connection.

Video 1: Demonstrates attaching the K&F Concept V-Mount Battery to a camera rig and using its features.

Operating Instructions

Powering On/Off

Press and hold the power button located on the side of the battery to turn it on or off. The TFT screen will illuminate upon activation.

Understanding the TFT Display

The integrated TFT screen provides real-time information:

- **Battery Percentage:** Shows the remaining charge.
- **Voltage/Wattage:** Displays current output voltage and wattage for connected devices.
- **Charging Status:** Indicates if the battery is charging or discharging.



Figure 6: Intelligent TFT Screen Display

Connecting Devices

Use appropriate cables to connect your devices to the battery's various output ports (USB-C, USB-A, DC 12V, D-TAP). The battery can power multiple devices simultaneously.



Figure 7: Variety of Application Scenarios

Emergency Night Light

The battery features a built-in emergency night light, useful in low-light environments. Activate it by pressing the designated button (refer to product diagram for location).



Figure 8: Emergency Night Light Feature

Maintenance

Cleaning

Wipe the battery with a soft, dry cloth. Do not use liquid cleaners or solvents. Ensure all ports are free of dust and debris.

Storage

Store the battery in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, charge the battery to approximately 50-70% capacity and recharge every 3-6 months to maintain battery health.

Battery Longevity

To prolong battery life, avoid fully discharging the battery frequently. Use the appropriate charger and cables for optimal charging. The anti-slip metal design also aids in heat dissipation, contributing to longevity.



Figure 9: Anti-slip Metal Design for Durability and Heat Dissipation

Troubleshooting

Battery Not Charging

- Ensure the charging cable and power adapter are securely connected and functioning correctly.
- Verify that the power adapter meets the minimum 45W PD requirement for fast charging.
- Check the USB-C port for any obstructions or damage.

Devices Not Powering On

- Confirm the battery is sufficiently charged (check the TFT display).
- Ensure the correct output port is used for your device and the cable is securely connected.
- Verify that your device's power requirements do not exceed the battery's output capabilities.

TFT Display Issues

- If the display is unresponsive, try turning the battery off and on again.
- Ensure the battery is not exposed to extreme temperatures, which can affect screen performance.

Specifications

Feature	Detail
Brand	K&F Concept
Model Number	50Wh V mount
Capacity	50Wh (3400mAh/14.8V)

Feature	Detail
Rated Power Output	65W
Rated Power Input	45W
Charging Time	2 hours (with 45W+ charger)
Product Dimensions	4.25 x 3 x 2.26 inches
Item Weight	12.35 oz / 350g
Interfaces	USB-C, USB-A, DC 12V, BP, D-TAP
Display Type	TFT Screen
Safety Features	BMS (Temperature, Over-voltage, Over-discharge, Over-current, Over-charge, Short-circuit protection)

Warranty and Support

K&F Concept products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the official K&F Concept website or contact their customer service directly. You can find more information and contact details on the K&F Concept Store on Amazon.

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