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SYMIK CH324-2

SYMIK Battery Charger for GoPro Hero 13 Instruction Manual

Model: CH324-2

1. Product Overview

The SYMIK Intelligent 2-in-1 Fast Charging Hub is designed for GoPro Hero 13 batteries. It functions as both a triple-slot 24W fast charging hub and an intelligent battery checker. Featuring a 0.96-inch OLED screen, it provides real-time battery and charging information. This charger is engineered for high accuracy and efficient power distribution to ensure optimal battery health and fast charging times.



Image 1.1: The SYMIK Intelligent 2-in-1 Fast Charging Hub with three GoPro Hero 13 batteries inserted, highlighting its 12W Max Per Channel and 24W Total Power Limit capabilities.

2. Setup Instructions

1. **Connect Power:** Connect the charger to a power source using a USB-C cable. Ensure your power adapter can provide sufficient power (e.g., 9V DC input for optimal performance).
2. **Insert Batteries:** Carefully insert up to three GoPro Hero 13 batteries into the designated slots. Ensure the batteries are oriented correctly.

3. **Battery State Check:** You can check the battery's State of Charge (charge level) by inserting the battery into the charging hub without plugging in any power source. The OLED screen will display the current charge level.

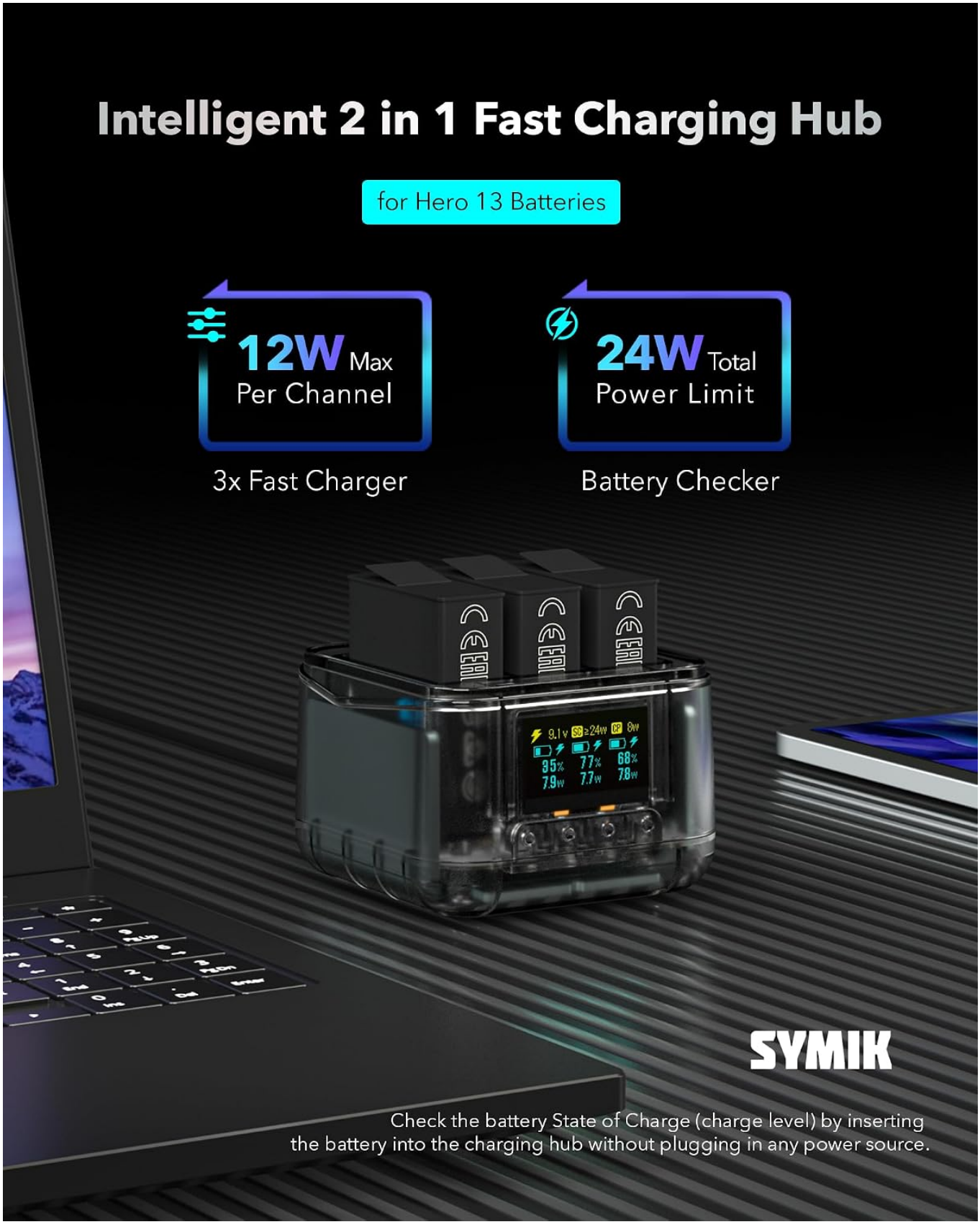

Image 2.1: The SYMIK charger connected to a power source and ready for battery insertion.

3. Operating Instructions

3.1 Charging Batteries

Once batteries are inserted and the charger is connected to a power source, the OLED screen will activate and display charging information. The charger will automatically begin charging the batteries.

3.2 Understanding the OLED Screen

The 0.96-inch OLED screen provides comprehensive information at a glance:

- **Battery State of Charge:** Percentage of charge for each battery.
- **Charge Power:** Power being delivered to each battery.
- **Voltage:** Current voltage of each battery.
- **Current:** Current flowing into each battery.
- **Power Source Capabilities:** Indicates the available power from the connected source.

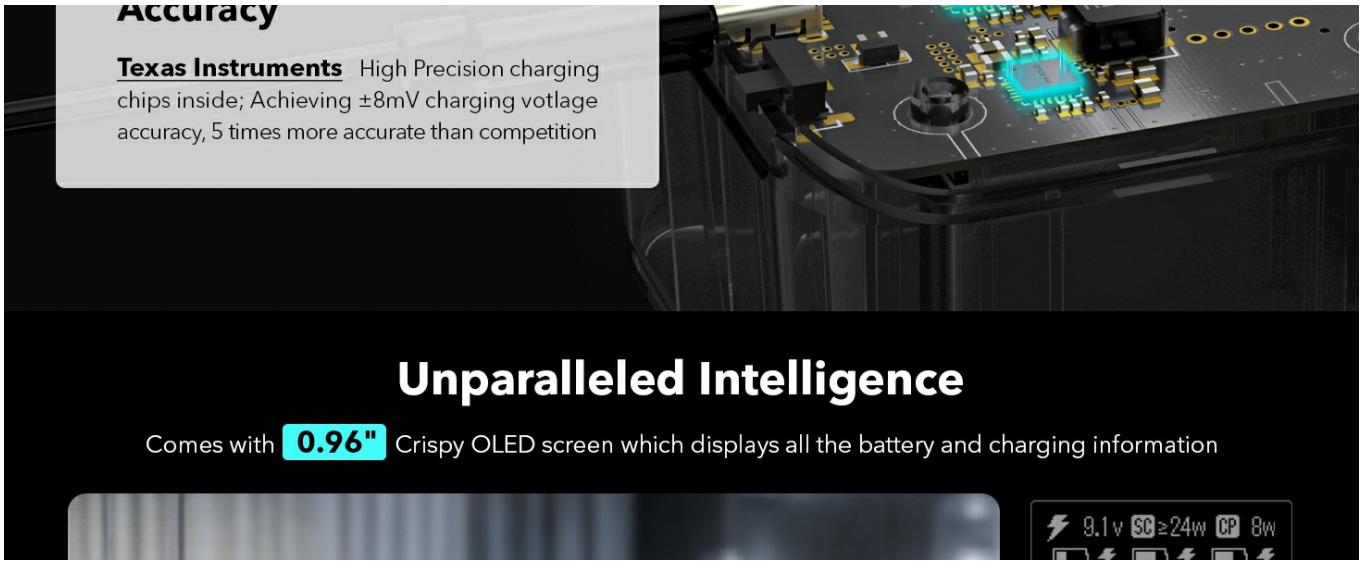

Image 3.1: Detailed view of the OLED screen showing various charging parameters for each battery slot.

4. Key Features and Technology

4.1 Unparalleled Charging Accuracy

The charger incorporates three high-precision charging management chips from Texas Instruments. These chips provide an accuracy of ±8mV, which is significantly more accurate than typical chargers, preventing both overcharging and undercharging to prolong battery life.



Image 4.1: Illustration of the high-precision Texas Instruments charging chips and their superior accuracy.

4.2 Fast Charging Performance

The charger utilizes an optimization algorithm that dynamically distributes charging power across channels for the fastest possible charging speed. It can charge 3 Hero 13 batteries from 20% to 90% in approximately 45 minutes, and from 0% to 100% in about 70 minutes at 8W per channel. In 12W boost mode, two batteries can reach 90% charge in 30-35 minutes.

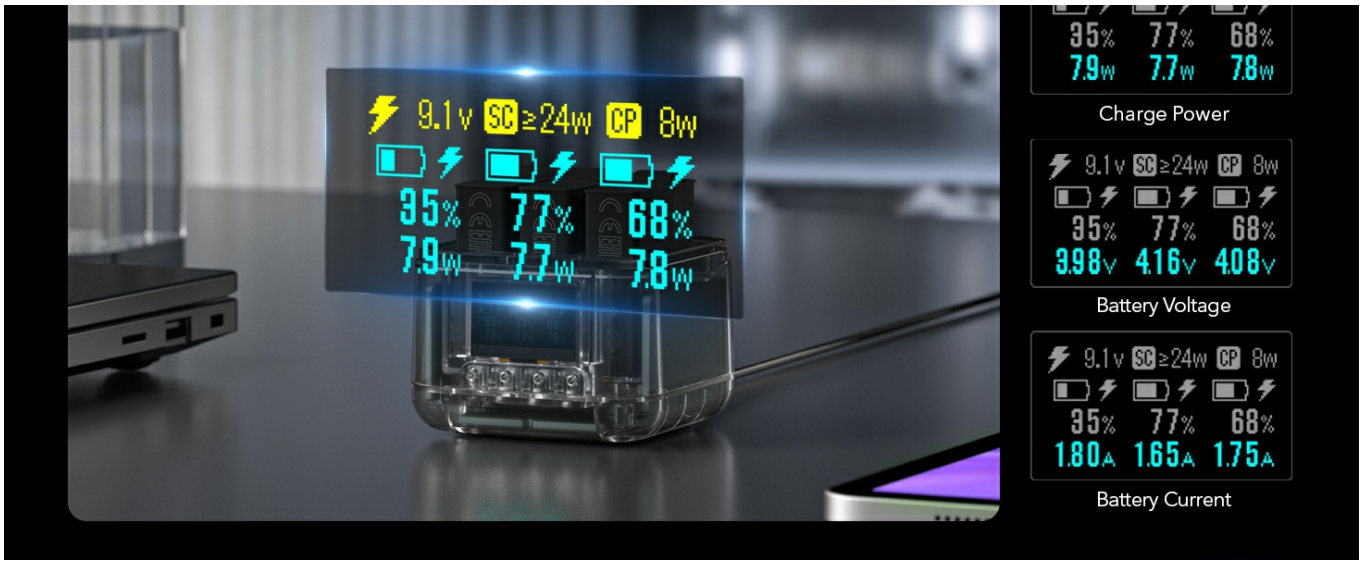

Image 4.2: Charging speed comparison graph demonstrating the efficiency of the SYMIK charger.

4.3 Advanced Technology

A sophisticated State Machine implemented on a 32-Bit ARM CPU enables accurate and smooth charging control. The intelligent algorithm dynamically re-evaluates and optimizes power allocation 180 times per hour, ensuring efficient charging even with limited power sources.

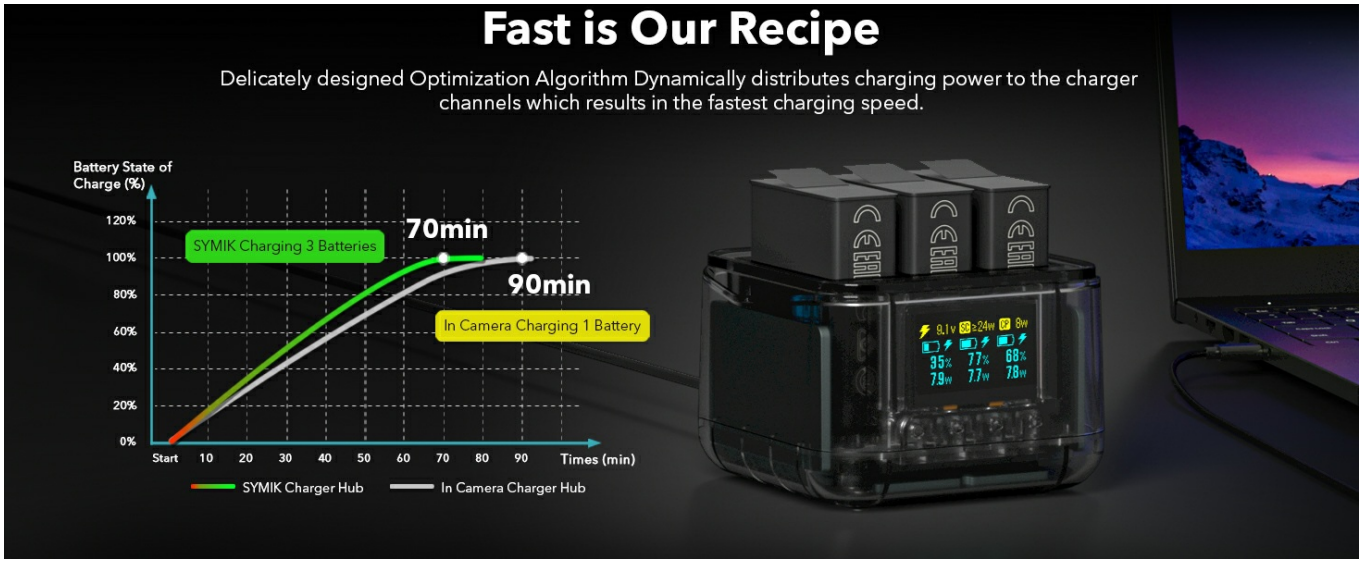

Image 4.3: Internal view highlighting the 32-Bit ARM CPU and its advanced charging control capabilities.

5. Safety Information and Protections

The SYMIK charger is designed to follow OEM charging specifications and includes multiple protection features to ensure safety and prevent damage to your batteries:

- Over Current Protection
- Over Voltage Protection
- Over Power Protection

- Short Circuit Protection
- Over Charge Protection
- Over Discharge Protection
- Over Temperature Protection
- Fire Resistant Protection



Image 5.1: Visual representation of the multiple safety protection features integrated into the charger.

5.1 Electrical and Mechanical Engineering

The charger features a semi-clear fire-resistant PC shell, a 0.96-inch crispy and informative OLED screen, carefully designed electronics with premium components, an internal aluminum heat sink with sand blasting and anodizing treatment, and an anti-slip pad. These elements ensure safety and durability in various conditions.

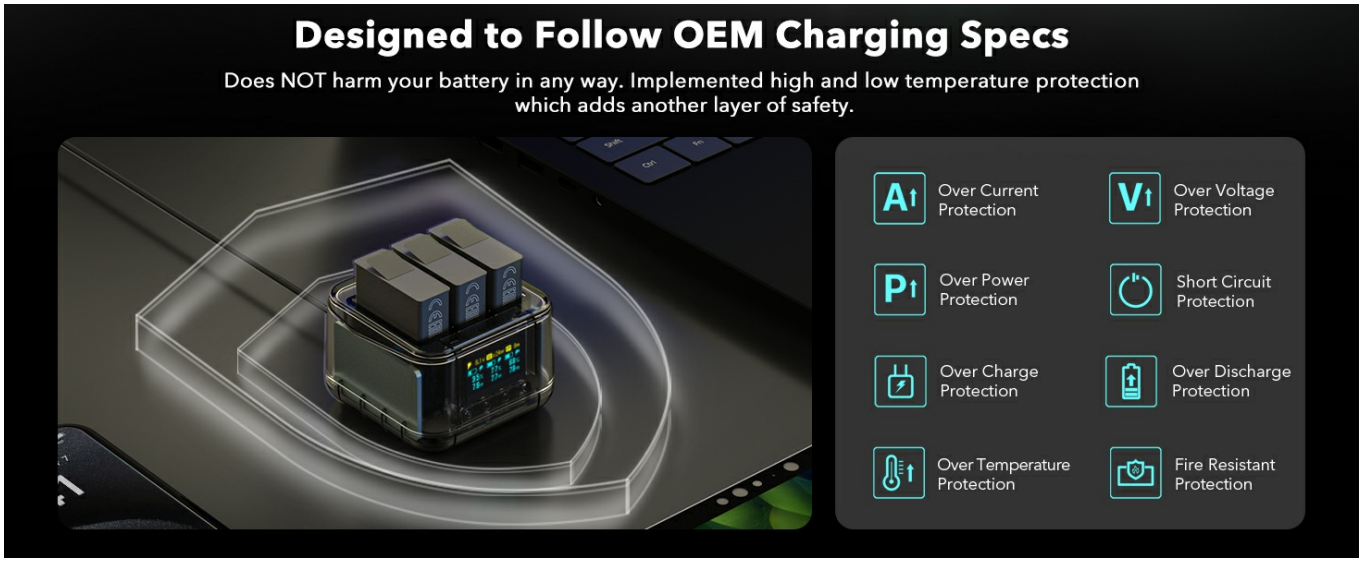

Image 5.2: Exploded view illustrating the precisely engineered internal and external components of the charger.

6. Product Specifications

Feature	Specification
Brand	SYMIK
Model Number	CH324-2

Product Dimensions	2.4"D x 2.4"W x 1.6"H (60x60x41 mm)
USB-C Input	5V 3A; 9V 2.7A (24W Max)
Output Voltage	5 Volts (DC)
Charge Power (Per Channel)	Up to 12W adjustable
Number of Ports	3
Product Weight	3.1 Ounces / 88.0 g
Operating Temperature	0° to 40° C (32° to 104° F)
Battery Charge Time (Room Temp)	20% to 90% in ~45min @ 8W; 0% to 90% in ~55min @ 8W; 0% to 100% in ~70min @ 8W; 20% to 90% in ~30min @ 12W
Certifications	UL, FCC, CE

**Charging hub and batteries are at room temperature when charge started. Charging slows down in high/low temperature conditions. Lab tested average numbers shown, actual mileage may vary.*

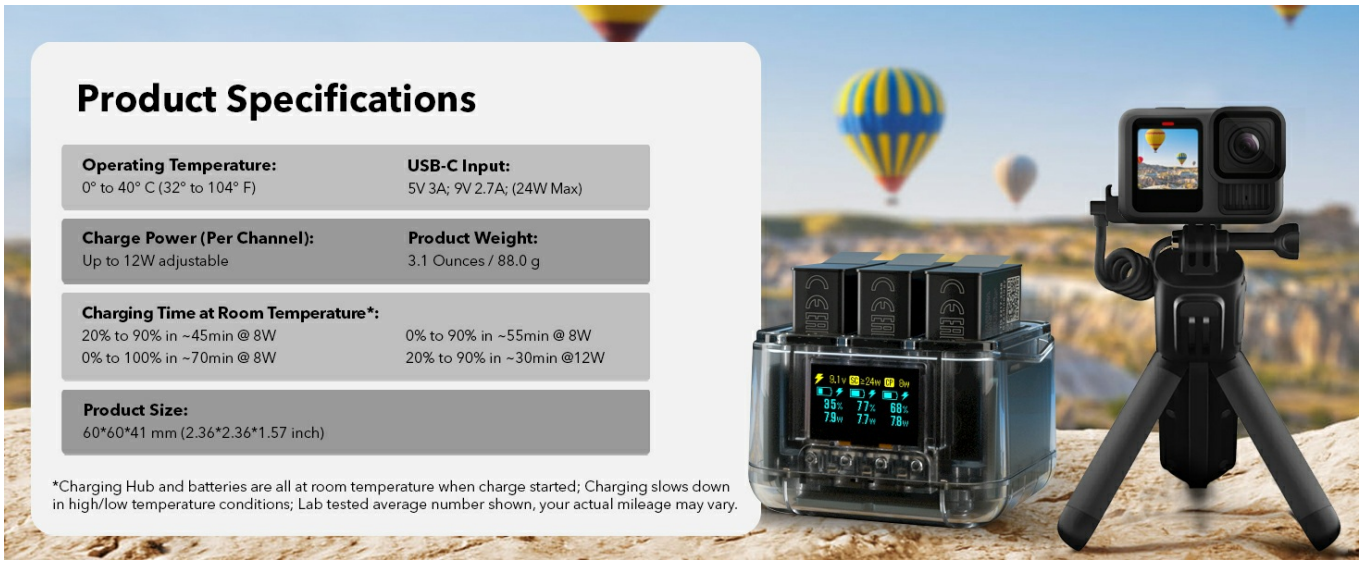

Image 6.1: Product dimensions and a summary of key specifications.

7. Troubleshooting

- **Charger not powering on:** Ensure the USB-C cable is securely connected to both the charger and a functional power source. Verify the power source is active.
- **Batteries not charging:** Check that batteries are inserted correctly into their slots. Ensure the power source provides adequate wattage (e.g., a 24W power adapter is recommended for optimal performance).
- **Slow charging:** Charging speed can be affected by the power source's output. Use a power adapter capable of delivering 24W (9V 2.7A) for fastest charging. Environmental temperature can also affect charging speed; charging may slow down in extreme temperatures.
- **OLED screen not displaying information:** If the screen is blank, ensure the charger is powered on and batteries are correctly inserted. If the issue persists, try a different USB-C cable or power adapter.

8. Warranty Information

This SYMIK Battery Charger comes with a **1 Year Warranty** from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

9. Customer Support

For any questions, technical assistance, or warranty claims, please contact SYMIK customer support through the retailer where you purchased the product or visit the official SYMIK website for contact information.

10. Product Video

Watch this official product video for a visual guide on the SYMIK Fast Charging Hub for GoPro Hero 13 Black.

▶ **Watch video online**
SYMIK Fast Charging Hub for GoPro Hero 13 Black

Video 10.1: Official SYMIK video demonstrating the features and use of the Fast Charging Hub for GoPro Hero 13 Black.

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