Moman H4C

Moman H4C Helmet Headset with Camera User Manual

Model: H4C

Introduction

The Moman H4C Helmet Headset with Camera is designed to enhance your riding experience by combining communication, entertainment, and video recording capabilities. This device features a 1080P HD camera with a 120° wide-angle lens and 360° body rotation, allowing you to capture vivid moments during your rides. It supports loop recording and comes with a 32GB memory card, expandable up to 256GB. With Bluetooth 5.3 technology, it offers stable connections to two smartphones simultaneously for navigation, calls, and music. The upgraded 40mm HiFi speakers deliver powerful bass and clear audio. Equipped with a 1500mAh battery, it provides up to 6.5 hours of video recording and 50 hours of music playback. Its IPX6 waterproof rating ensures reliable performance in various weather conditions.



Figure 1: Moman H4C Helmet Headset with Camera. This image displays the compact design of the H4C unit, highlighting its camera lens and control buttons.

Setup

Package Contents

- Moman H4C Helmet Headset Unit
- Interchangeable Microphone (Boom Mic / Soft Mic)
- Back Clip
- 32GB TF Card
- Type-C Charging Cable
- User Manual
- Velcro Clip Kit

Installation

Follow these steps to properly install the H4C unit onto your helmet:

1. Attach the back clip to the H4C unit.
2. Securely mount the H4C unit to the side of your helmet using the clip or adhesive mount.
3. Connect the appropriate microphone (boom mic for open-face helmets, soft mic for full-face helmets) and route the cable inside the helmet.
4. Position the speakers inside the helmet's ear pockets, ensuring they are aligned with your ears for optimal audio.
5. Insert the provided 32GB TF card into the designated slot.



Figure 2: Installation steps for the Moman H4C. This image illustrates how to attach the unit to a helmet using the clip mechanism, showing various angles of the device and its components.

Charging the Device

Before first use, fully charge the device. Connect the Type-C charging cable to the H4C unit and a USB power source. The charging indicator will show the charging status. A full charge takes approximately 3 hours.



Figure 3: Moman H4C battery capacity and usage times. This graphic highlights the 1500mAh battery, 3-hour charging time, 6.5 hours of recording, 50 hours of music playback, and 500 hours of standby time.

Operating Instructions

Power On/Off

- **Power On:** Press and hold the Power button for 3 seconds.
- **Power Off:** Press and hold the Power button for 3 seconds until the indicator lights turn off.

Camera Operation

The integrated 1080P HD camera captures clear video of your rides. The 120° wide-angle lens and 360° body rotation allow for flexible recording angles.



Figure 4: Moman H4C 1080P HD recording capability. This image compares the H4C's 1080P video quality with a 720P alternative, emphasizing clarity and detail.



Figure 5: Moman H4C 120-degree wide-angle recording and 360-degree adjustment. This graphic demonstrates the camera's broad field of view and its ability to rotate for optimal capture.

Loop Recording

The H4C supports loop recording. When the TF card is full, the oldest unprotected files will be automatically overwritten, ensuring continuous recording without manual intervention. A 32GB TF card is included, and the device supports up to 256GB.



Figure 6: Moman H4C loop recording feature. This visual represents the continuous recording cycle, where new footage overwrites the oldest files when storage is full.

Bluetooth Connectivity and App Control

The H4C utilizes Bluetooth 5.3 technology, allowing simultaneous connection to two smartphones. This enables riders to manage navigation, phone calls, and music playback concurrently. Download the "RoadCam" app on your smartphone to view and download recorded videos and photos directly from the device via Wi-Fi.



Figure 7: Moman H4C app control via Wi-Fi hotspot. This image shows the device connecting to a smartphone running the "RoadCam" app, allowing users to easily download and view media.

Hands-Free Voice Assistant

Activate your smartphone's voice assistant (e.g., Siri) with a single click on the H4C's control button. This allows for hands-free operation of various functions without diverting attention from the road. The device also supports automatic call answering for added convenience and safety.



Figure 8: Moman H4C hands-free AI voice assistant. This graphic illustrates a rider interacting with the voice assistant for tasks like checking weather, playing music, or making calls, all hands-free.

Audio Experience

The H4C features upgraded 40mm HiFi speakers, delivering powerful bass, increased volume, and superior sound quality. Enjoy an immersive and realistic music environment with rich audio details during your rides.

Maintenance

Cleaning and Care

To maintain the performance and longevity of your Moman H4C, regularly clean the unit with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials. Ensure all ports are dry before charging or connecting accessories.

Water Resistance (IPX6)

The H4C is rated IPX6 waterproof, meaning it is protected against powerful water jets. This allows for use in various

weather conditions, including rain. However, it is not designed for submersion in water.



Figure 9: Moman H4C IPX6 waterproof and dustproof rating. This image visually represents the device's resistance to water splashes and dust, making it suitable for outdoor use.

Battery Longevity

To maximize battery life, avoid fully discharging the battery frequently. Store the device in a cool, dry place when not in use for extended periods, with the battery charged to approximately 50%.

Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low battery; Power button not held long enough.	Charge the device fully. Press and hold the Power button for at least 3 seconds.

Problem	Possible Cause	Solution
Cannot connect to smartphone via Bluetooth.	Bluetooth not enabled on phone; Device not in pairing mode; Interference.	Ensure Bluetooth is on. Put H4C in pairing mode (refer to manual for specific button press). Move away from other electronic devices.
Video recording issues (e.g., not recording, corrupted files).	TF card full or corrupted; Incorrect card format; Camera lens obstructed.	Check TF card storage. Format TF card (FAT32 recommended). Ensure lens is clean and unobstructed.
Poor audio quality or low volume.	Speakers not positioned correctly; Microphone not properly connected; Volume too low.	Adjust speaker placement inside helmet. Reconnect microphone. Increase volume using device controls or connected smartphone.

Specifications

Feature	Detail
Model Number	H4C
Video Capture Resolution	1080p
Wide Angle Lens	120 degrees
Body Rotation	360 degrees
Battery Capacity	1500mAh Lithium Ion
Charging Time	Approx. 3 hours
Video Recording Time	Up to 6.5 hours
Music Playback Time	Up to 50 hours
Standby Time	Up to 500 hours
Memory Card Support	Up to 256GB (32GB included)
Waterproof Rating	IPX6
Bluetooth Version	5.3
Speaker Size	40mm HiFi
Control Method	App / Buttons
Compatible Vehicle Type	Motorcycles, Dirt Bikes, Snowmobiles

Warranty and Support

Warranty Information

Moman products typically come with a standard manufacturer's warranty. For specific details regarding the warranty period and coverage for your H4C Helmet Headset, please refer to the warranty card included in your product packaging or visit the official Moman website.

Customer Support

If you encounter any issues or have questions regarding the operation, maintenance, or troubleshooting of your Moman H4C, please contact Moman customer support. Contact information can typically be found on the official Moman website or in the product documentation.

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