

## Mcezdy H6C-5-Core

# Mcezdy H6C-5-Core Ebike LCD Display User Manual

Model: H6C-5-Core | UART No. 2 Protocol, 24V-60V

## 1. INTRODUCTION

Thank you for choosing the Mcezdy H6C-5-Core Ebike LCD Display. This advanced cycling computer is designed to provide essential riding data and enhance your electric bike experience. Featuring a colorful display, robust construction, and a convenient charging port for mobile devices, it is compatible with 24V-60V ebike systems utilizing the UART No. 2 communication protocol.



Image 1.1: The Mcezdy H6C-5-Core Ebike LCD Display, showcasing its vibrant interface with speed, battery charge, voltage, and pedal-assist system (PAS) level indicators.

## 2. SAFETY INFORMATION

- Always ensure the display is securely mounted and all connections are firm before riding.

- Do not attempt to open or modify the display unit, as this may void the warranty and cause damage.
- Avoid prolonged exposure to direct sunlight or extreme temperatures to prevent damage to the LCD screen.
- The display has an IPX65 waterproof rating, protecting against water splashes and rain. However, avoid submerging the unit in water.
- Always prioritize road safety. Do not operate display settings while riding.

### 3. PACKAGE CONTENTS

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Verify that all items are present in your package:

- Mcezdy H6C-5-Core LCD Display Unit
- Mounting Bracket and Hardware
- 5-Core Common Cable (SM-5Y, 1800mm length)
- User's Manual (this document)
- Fault Code Description (separate document or section in physical manual)

### 4. SETUP AND INSTALLATION

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#### 4.1. Compatibility Check

**Important:** This H6C-5-Core ebike display operates using the **UART No. 2 protocol**. Ensure your ebike controller is compatible with this protocol for proper functionality. Additionally, confirm your ebike controller is compatible with a **5-core connector**.

# Attention!

Please check if your ebike is compatible with the **UART NO.2 Protocol**



Image 4.1: A visual reminder to verify your ebike's compatibility with the UART No. 2 protocol before installation.

## 4.2. Mounting the Display

1. Select a suitable position on your handlebar for optimal visibility and access to controls.
2. The flexible bracket is designed to fit handlebar diameters of 22.2mm, 25.4mm, 29.8mm, and 31.8mm.
3. Attach the mounting bracket to the handlebar using the provided hardware, ensuring it is secure but not overtightened.
4. Slide the display unit onto the bracket until it clicks into place. Adjust the angle for best viewing.

## Compatible With Most Handlebars



Image 4.2: The display mounted on an ebike handlebar, illustrating its universal fit for different handlebar diameters.

### 4.3. Wiring Connection

Connect the 5-core common cable (SM-5Y) from the display to the corresponding port on your ebike controller. Ensure the connection is firm and secure. The cable length is approximately 1800mm.



Image 4.3: An illustration of different connector types. Ensure you use the 5-Core connector for the H6C-5-Core model.

## 5. OPERATING INSTRUCTIONS

### 5.1. Power On/Off

- To power on the display, press and hold the power button on the keypad for a few seconds.
- To power off, press and hold the power button again until the display turns off.

### 5.2. Keypad Functions

The display is controlled via an external keypad, typically mounted near your thumb for easy access.



Image 5.1: The H6C-5-Core display alongside its dedicated keypad for intuitive control and setting adjustments.

- **Power Button:** Turns the display on/off.
- **Up (+) Button:** Increases pedal-assist level, navigates menus upwards, or increases values.
- **Down (-) Button:** Decreases pedal-assist level, navigates menus downwards, or decreases values.
- **Mode/Set Button:** Cycles through display modes (e.g., trip distance, total distance) or enters/confirms settings.

### 5.3. Walk-Assist Mode

To activate walk-assist mode (typically 6 km/h), press and hold the Down (-) button. Release the button to exit this mode.

### 5.4. Cruise Control

Refer to your e-bike controller's manual or the display's advanced settings for specific instructions on activating and using cruise control, as implementation may vary.

## 6. DISPLAY FUNCTIONS AND METRICS

The H6C-5-Core display provides a comprehensive overview of your riding data:

## Give All Metrics You Need

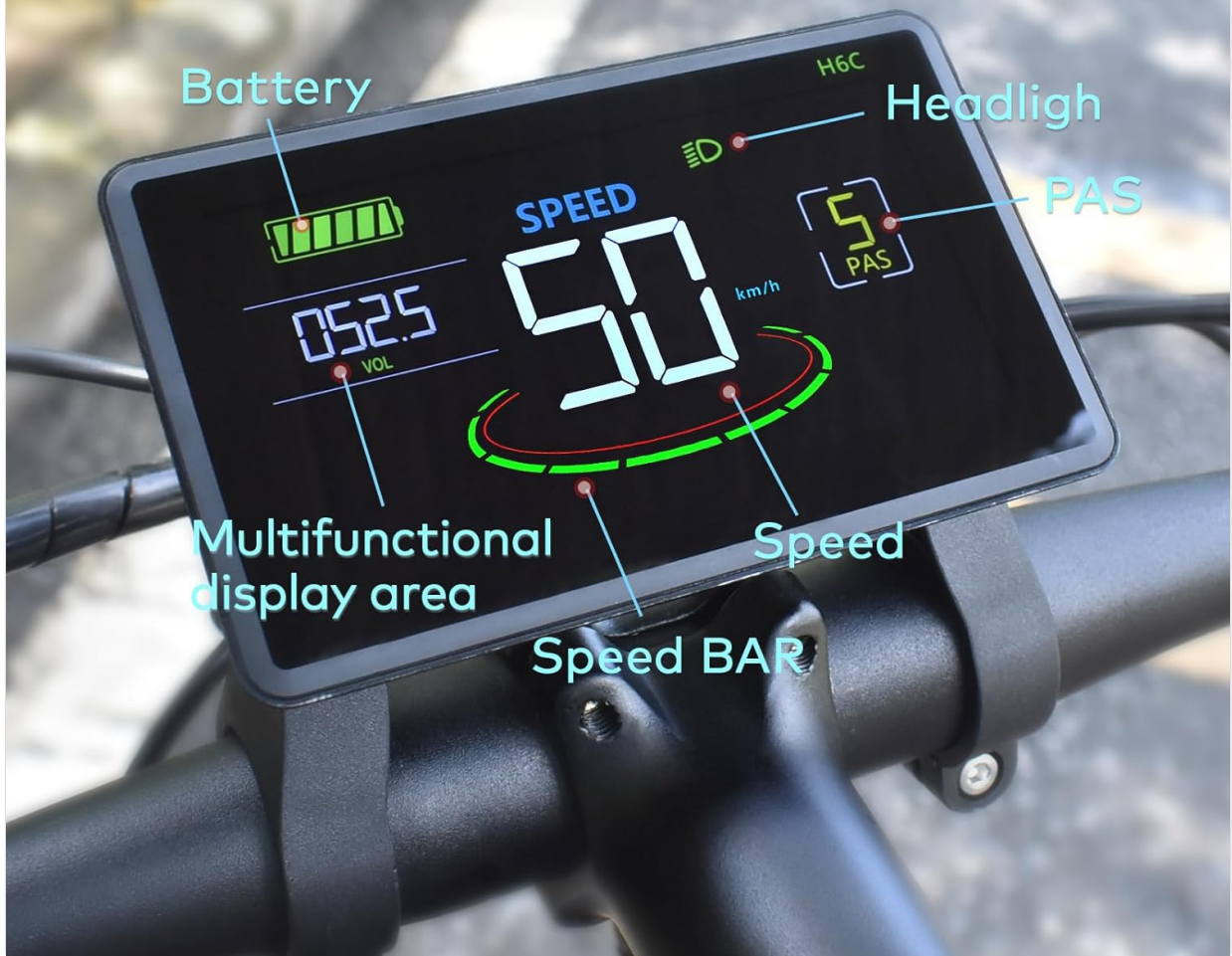


Image 6.1: Detailed breakdown of the H6C-5-Core display interface, highlighting each metric and its location.

- **Battery Level:** Graphical indicator showing remaining battery charge.
- **Voltage (VOL):** Real-time battery voltage display.
- **Speed:** Current riding speed (km/h or mph, depending on settings).
- **Speed Bar:** Visual representation of current speed.
- **PAS Level:** Current Pedal Assist System level (0-5 or 0-9, configurable).
- **Headlight Indicator:** Illuminates when headlights are active.
- **Mileage:** Toggle between single trip distance and total mileage.
- **USB Charging Port:** A 5V/500mA USB port is built-in for charging mobile devices.

## 7. PARAMETER SETTINGS

The display allows customization of various parameters to match your ebike and preferences. Accessing and modifying these settings typically involves a sequence of button presses (e.g., holding Up and Down buttons simultaneously) to enter a settings menu. Refer to the detailed instructions in the physical user manual for specific steps.

- **Wheel Diameter:** Set the correct wheel diameter for accurate speed and distance readings.
- **Speed Limit:** Adjust the maximum assisted speed according to local regulations and personal preference.
- **Unit System:** Switch between metric (km/h) and imperial (mph) units.
- **Battery Voltage:** Configure the display for 24V, 36V, 48V, or 60V battery systems.

- **Backlight Brightness:** Adjust the display's backlight intensity.

## 8. MAINTENANCE

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- **Cleaning:** Use a soft, damp cloth to clean the display screen. Avoid abrasive cleaners or solvents.
- **Water Resistance:** The IPX65 rating protects against splashes. If the display gets wet, wipe it dry promptly. Do not use high-pressure water jets directly on the display.
- **Storage:** When not in use for extended periods, store the ebike and display in a dry, temperate environment.
- **Cable Inspection:** Periodically check all cables and connectors for signs of wear or damage.

## 9. TROUBLESHOOTING

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If you encounter issues with your Mcezdý H6C-5-Core display, consider the following:

- **Display Not Turning On:**
  - Check if the ebike battery is charged and powered on.
  - Ensure all cable connections are secure and undamaged.
  - Verify the display's compatibility with your ebike's voltage (24V-60V) and UART No. 2 protocol.
- **Inaccurate Speed/Distance Readings:**
  - Confirm the wheel diameter setting in the display parameters is correct.
  - Check the speed sensor on your ebike for proper alignment and function.
- **Display Shows Error Code:**
  - Refer to the 'Fault Code Description' document included with your product for specific error code meanings and troubleshooting steps.
- **USB Charging Not Working:**
  - Ensure the display is powered on.
  - Check the USB cable and the mobile device for proper connection.

If problems persist, contact Mcezdý customer support for assistance.

## 10. SPECIFICATIONS

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Feature	Specification
Model Number	H6C-5-Core
Display Type	Colorful LCD
Communication Protocol	UART No. 2
Compatible Voltage	DC 24V, 36V, 48V, 60V
Connector Type	5-Core (SM-5Y)
Cable Length (Exposed)	1800mm
Handlebar Compatibility	22.2mm, 25.4mm, 29.8mm, 31.8mm
Material	ABS+PC Housing, Tempered Glass Screen, Nylon Bracket
Waterproof Rating	IPX65

Feature	Specification
USB Charging Port	5V/500mA
Item Weight	308 g
Parcel Dimensions	12.6 x 10.39 x 7.9 cm



Image 10.1: Visual representation of the display's dimensions and a summary of key specifications.

## 11. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided with your purchase or contact Mcezdy directly through their official channels. Keep your proof of purchase for warranty claims.