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› Topyond M6C LCD Electric Bicycle Display User Manual

Topyond M6C

Topyond M6C LCD Electric Bicycle Display User Manual

Model: M6C | Brand: Topyond

1. INTRODUCTION

The Topyond M6C LCD Electric Bicycle Display is designed to provide clear and essential riding information for your e-bike. It features a large screen for easy readability, a waterproof connector for durability in various weather conditions, and compatibility with a range of electric bicycles and scooters. This manual provides detailed instructions for installation, operation, and maintenance.

Package Contents:

- 1 x Topyond M6C Electric Bicycle Display Meter
- 1 x Instruction Manual



Image 1.1: The Topyond M6C LCD Electric Bicycle Display and its control unit.

2. SPECIFICATIONS

This section details the technical specifications of the Topyond M6C LCD Electric Bicycle Display.

- **Item Type:** Electric bicycle display
- **Material:** ABS
- **Weight:** Approximately 0.2 Kilograms (201g/7.1oz)
- **Voltage:** Default label 36V (compatible with 24V, 36V, 48V, 60V systems)
- **Installation Diameter Range:** 22.5mm (0.89in), 25.4mm (1in), 28.6mm (1.1in)

Installation Diameter Range:

22.5mm/0.89in

25.4/1in

28.6mm/1.1in



Image 2.1: Diagram illustrating the compatible installation diameter ranges for the display.

3. INSTALLATION

Proper installation is crucial for the display's functionality and your safety. Follow these steps carefully.

3.1 Mounting the Display

1. Select an appropriate position on your e-bike handlebars.
2. Ensure the handlebar diameter is within the supported range: 22.5mm, 25.4mm, or 28.6mm.
3. Securely attach the display bracket to the handlebar using the provided fasteners.



Durable Wires and interfaces, low failure rate
Waterproof connector, more practical
Display super multiple content, know the status at any time

Image 3.1: The M6C display mounted on an e-bike handlebar, showing its position relative to the rider.

3.2 Wiring Connection

The display uses a waterproof connector. Ensure connections are firm and correctly aligned.

Table 3.1: Connection Mode Wiring

Order Line	Color of Line	Function
1	Red (VCC)	Meter wire
2	Blue (K)	Meter wire
3	Black (GND)	Meter earth wire
4	Green (RX)	Meter data receiving line
5	Yellow (TX)	Meter data sending line

Note: Some product lead wires use waterproof connections. The internal wire colors may not be visible to the user.



Image 3.2: A close-up view of the waterproof connector, highlighting its design for durability.



Image 3.3: The rear of the display unit, showing the voltage label (e.g., 36V).

4. OPERATION

This section explains how to use the Topyond M6C display and its various functions.

4.1 Key Introduction

The display features control buttons for various functions. Operations are categorized into short presses, long presses, and composite key presses.



Image 4.1: A close-up of the control buttons, typically located on a separate unit for easy access.

Short Press Functions:

- **During Riding:** Short press to modify power/speed file.
- **Toggle Display Data:** Short click to cycle through multi-function display areas.
- **Switch Mode/State:** Single key short press is primarily used for this purpose.
- **Adjust Value:** Short press to switch the value in multi-function display areas.

Long Press Functions:

- **Headlight Control:** Long press to turn headlights on or off.
- **Speed Display Toggle:** Long press to switch speed display.
- **6KM/H Cruise:** From a static state, long press to enter 6KM/H cruise mode. Release to exit.
- **Screen On/Off:** If the display is working, long press to turn the screen off. Long press again to turn it on.

Composite Key Presses (Long Press Combinations):

Used for setting parameters to prevent accidental changes.

- **P1 Menu Interface:** Long press for five seconds to enter the P1 menu.

- **ODO Clear Zero:** Long press for five seconds in the P1 menu to clear ODO.
- **Restore Factory Settings:** Long press for 10 seconds to restore factory settings.

4.2 Displayed Information

The M6C display provides comprehensive data at a glance:

- **Speed Display:** Maximum Speed (MAX), Average Speed (AVG) in MPH or KM/H.
- **Power Level Display:** Current battery level.
- **Power Indicator:** Visual representation of power output.
- **Failure Warning:** Icons for various system faults.
- **Mileage:** Total Mileage (ODO), Single Mileage (TRIP A, TRIP B).
- **Headlight Display:** Indication when headlights are active.
- **Single Running Time Display:** Duration of current ride.
- **Battery Voltage (VOL) & Current (CUR):** Real-time battery voltage and current.
- **Gear Indication:** Current PAS (Pedal Assist System) level (0-9).
- **Cycling Mode:** Walk boost mode, Cruise constant speed mode.

4.3 Parameter Settings (P01-P22)

Access these settings via composite key presses to customize your display and e-bike behavior.

- **P01: Backlight Brightness:** 1 (darkest) to 3 (brightest).
- **P02: Mileage Unit:** 0 (KM), 1 (MILE).
- **P03: Voltage Level:** 24V, 36V, 48V, 60V, 64V (default 36V).
- **P04: Dormancy Time:** 0 (no dormancy), 1-60 minutes.
- **P05: Help File (PAS Gear Mode):** 0 (3-file), 1 (3-mode), 2 (9-gear mode).
- **P06: Wheel Diameter:** Unit in inches.
- **P07: Speed Magnetic Steel Number:** 1-100.
- **P08: Speed Magnetic Steel Number Range:** 1-100.
- **P09: Start Mode:** 0 (Zero start), 1 (Non-zero start).
- **P10: Drive Mode:** 0 (Power Drive), 1 (Electric Drive via throttle).
- **P11: Help Sensitivity:** 1-24 (PAS sensitivity, high to low).
- **P12: Help Start Intensity:** 1-5 (PAS start protection, low to high).
- **P13: Power Magnetic Steel Setting:** 5, 8, 10, 12, 15, 18, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92, 96, 100.
- **P14: Controller Limit Value:** Default 12A (range 1-20, higher value increases current).
- **P15: Controller Under Voltage:** Low voltage protection value.
- **P16: ODO Zero Setting:** Long press key 5 seconds to clear ODO. Long press 10 seconds to restore factory settings.
- **P17: Cruise Function:** 0 (No enabling), 1 (Enabling cruising - automatic cruise optional for protocol 2 only).
- **P18: Display Speed Ratio Adjustment:** 50% - 150%.
- **P19: Power Bit:** 0 (0 file), 1 (does not include 0 file).
- **P20: Protocol:** 0 (1.5.5 Protocol), 1 (Protocol 2), 2 (Standby), 3 (Standby).
- **P21: Throttle Gear Control:** 0 (Instrument control), 1 (Full throttle, no gear, discrimination).
- **P22: E-ABS Braking:** 0 (No E-ABS), 1 (E-ABS regenerative braking when power off brake).

5. TROUBLESHOOTING AND ERROR CODES

The display provides error codes to help diagnose potential issues with your e-bike system.

5.1 eVehicle Status Display Area

Icons on the display indicate the status of various components: Battery, Motor, Controller, Turn Signal, and Communication.

5.2 Fault Icons and Meanings

- **Under-voltage fault:** Indicates low battery voltage.
- **Motor fault:** Problem with the motor.
- **Turn the fault:** Issue with the turn signal system.
- **Controller fault:** Problem with the e-bike controller.
- **Communication failures:** Issue with data communication between components.

5.3 Vehicle Status Code Meaning

Table 5.1: Error Codes and Descriptions

Status Code (Decimal)	State Meaning	Remarks
E00	Normal	No errors detected.
E02	Brakes	Brake lever engaged or fault.
E06	Battery under voltage	Battery voltage is too low.
E07	Motor failure	Problem with the motor.
E08	Turn malfunctioning	Issue with turn signal.
E09	Controller failure	Problem with the e-bike controller.
E10	Meter data receiver failure	Display not receiving data.
E11	Meter data sender failure	Display not sending data.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Topyond M6C LCD display, follow these maintenance guidelines:

- **Cleaning:** Wipe the display screen and body with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the screen or casing.
- **Waterproof Connector:** While the connector is waterproof, avoid submerging the display in water. Ensure the connector is free from dirt and debris to maintain a secure connection.
- **Storage:** When not in use for extended periods, store the e-bike and display in a dry, cool place away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Periodically check all cables and connections for any signs of wear, damage, or loose connections.

7. WARRANTY AND SUPPORT

For warranty information, technical support, or any questions regarding your Topyond M6C LCD Electric Bicycle Display, please refer to the product packaging or contact Topyond customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.