

HALLOMOTOR 600C TFT display with CAN protocol

Speed Unlimited 600C TFT Display User Manual

Model: 600C TFT Display with CAN Protocol

Brand: HALLOMOTOR

INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the HALLOMOTOR Speed Unlimited 600C TFT Display. This advanced display is designed to seamlessly integrate with various Bafang mid-drive motors, including M200, M300, M400, M410, M420, M500, M560, M510, M600, M620, M800, and M820 models. It utilizes CAN protocol for reliable communication and offers a vibrant TFT screen for clear data monitoring and customizable settings.

PRODUCT OVERVIEW



Figure 1: Front view of the HALLOMOTOR 600C TFT Display, showing the screen and control buttons.

CAN version



Compatible Models

M200

M300

M400

M420

M500

M510

M560

M600

M620

M800

M820

M410



Figure 2: The 600C TFT Display, highlighting its CAN version and compatibility with Bafang M200, M300, M400, M410, M420, M500, M510, M560, M600, M620, M800, and M820 motors.

Eight Square Motor-600C

Smart riding code meter



Figure 3: The 600C TFT Display mounted on bicycle handlebars, demonstrating its 2.4-inch HD screen, multi-language support, multi-mode interface, and IP65 waterproof rating.



Figure 4: An installed view of the 600C TFT Display on an electric bicycle, showing its compact design and handlebar mounting.

SETUP AND INSTALLATION

1. Package Contents

- 600C TFT Display Unit
- Mounting Bracket (integrated)
- Connection Cable

2. Mounting the Display

The 600C TFT Display is designed for handlebar mounting. Ensure the handlebar diameter is compatible with the integrated clamp (approximately Ø22.2mm as per dimensions). Position the display centrally for optimal viewing and access to buttons.

1. Loosen the mounting screw on the display's integrated clamp.
2. Place the display on your bicycle's handlebar in the desired position.
3. Tighten the mounting screw securely, ensuring the display is stable and does not rotate freely. Do not overtighten.

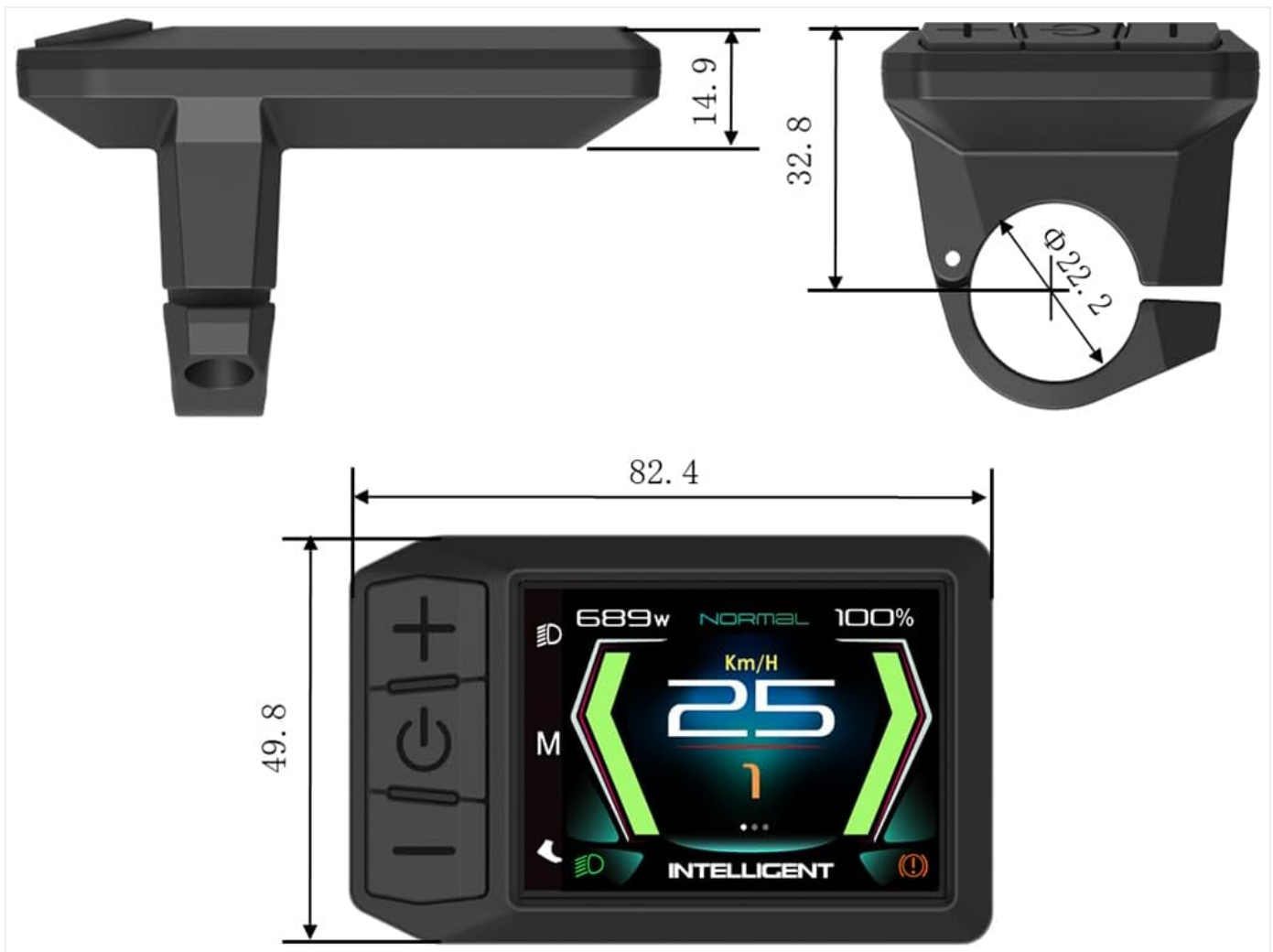


Figure 5: Technical dimensions of the 600C TFT Display, showing measurements in millimeters for width, height, and handlebar clamp diameter (Ø22.2mm).

3. Electrical Connection

Connect the display's cable to the corresponding port on your Bafang mid-drive motor system. Ensure the connectors are clean and dry before mating. The display uses a specific CAN protocol connector (often green, as shown in product images).

1. Locate the display connection port on your Bafang motor's wiring harness.
2. Align the male and female connectors of the display cable and the motor harness.
3. Push firmly until the connectors click into place, ensuring a secure and waterproof seal.
4. Route the cable neatly along the handlebars and frame, securing it with cable ties to prevent snagging or damage.

OPERATING INSTRUCTIONS

1. Display Layout and Buttons

The 600C TFT display features a clear screen and intuitive button layout for easy control.

- **Power Button (middle):** Turns the display and e-bike system on/off.
- **Up Button (+):** Increases assist level, navigates menus upwards, or increases values.
- **Down Button (-):** Decreases assist level, navigates menus downwards, or decreases values.
- **M Button (Mode):** Cycles through display information, enters/exits settings menus.

2. Basic Operation

- **Power On/Off:** Press and hold the Power button for approximately 2 seconds to turn the system on or off.
- **Changing Assist Levels:** Use the Up (+) and Down (-) buttons to adjust the motor's pedal assist level. The current level will be displayed on the screen.
- **Cycling Display Information:** Press the M button briefly to cycle through various data displays such as speed (current, average, max), distance (trip, total), battery level, and power output.

3. Advanced Settings and Interface Modes

The 600C display supports multiple interface modes and customizable settings. Refer to the on-screen menu for specific options.



Figure 6: Examples of multiple interface modes available on the 600C TFT Display, including digital, simulation, basic information, and detailed information views.

- **Accessing Settings:** Typically, pressing and holding the M button, or a combination of buttons, will enter the settings menu. Follow the on-screen prompts.
- **Customization:** Within the settings, you may be able to adjust parameters such as wheel diameter, speed unit (km/h or mph), battery voltage, backlight brightness, and password protection.
- **Interface Modes:** The display offers various visual layouts for data presentation. Navigate to the 'Interface Mode' setting to select your preferred view.

MAINTENANCE

- **Cleaning:** The display is IP65 waterproof. Use a soft, damp cloth to wipe the screen and casing. Avoid abrasive cleaners or solvents. Do not use high-pressure water jets directly on the display.
- **Storage:** When not in use for extended periods, store the display and e-bike in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Periodically check the display cable and connectors for any signs of wear, damage, or corrosion. Ensure connections remain secure.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Display does not power on.	Low battery, loose connection, system fault.	Check e-bike battery charge. Ensure all cables are securely connected. If problem persists, consult a technician.
No speed or distance data.	Speed sensor issue, loose motor connection.	Check speed sensor alignment and connection. Verify motor connection.
Display shows error code.	System malfunction.	Note the error code and refer to your motor's manual or contact support for specific meaning and resolution.
Buttons are unresponsive.	Temporary software glitch, physical damage.	Try restarting the display (power off and on). Inspect buttons for physical damage.

SPECIFICATIONS

- **Model Name:** 600C TFT display with CAN protocol
- **Brand:** HALLOMOTOR
- **Display Type:** TFT (Thin-Film Transistor)
- **Screen Size:** 2.4-inch (HD display screen)
- **Protocol:** CAN (Controller Area Network)
- **Compatibility:** Bafang Mid Drive Motors (M200, M300, M400, M410, M420, M500, M560, M510, M600, M620, M800, M820)
- **Material:** Plastic
- **Color:** Black
- **Mounting Type:** Handlebar Mount (Ø22.2mm)
- **Waterproof Rating:** IP65
- **Included Components:** LCD 600C CAN

WARRANTY AND SUPPORT

Warranty Information

This product comes with a limited warranty. For specific details regarding warranty coverage, duration, and terms, please refer to the documentation provided with your purchase or contact HALLOMOTOR directly. Keep your proof of purchase for warranty claims.


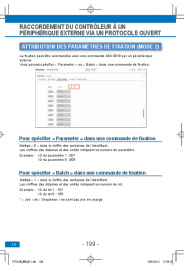
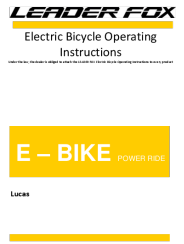
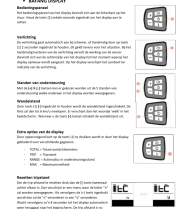

Customer Support

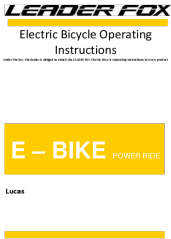
If you encounter any issues not covered in this manual or require further assistance, please contact the seller or HALLOMOTOR customer support. Provide your product model number and a detailed description of the issue for efficient

service.



Related Documents - 600C TFT display with CAN protocol

	<p>Bafang E-bike Drive Systems and Components Workbook 2023</p> <p>Comprehensive workbook detailing Bafang's range of e-bike drive systems, motors, batteries, HMIs, controllers, sensors, and accessories for various applications including eMTB, eRoad, eTour, eCity, eCargo, and eFAT. Features technical specifications, compatibility information, and service tools.</p>
	<p>Panasonic EYFCA1WC: Controller Connection and Configuration Guide</p> <p>This document provides detailed instructions on connecting a Panasonic controller to external peripherals via an open protocol, focusing on parameter and batch assignment. It also covers configuration for external access points, technical specifications for the EYFCA1WC model, and troubleshooting error codes.</p>
	<p>Leader Fox Electric Bicycle Operating Instructions and Manual</p> <p>Comprehensive operating instructions, specifications, and troubleshooting guide for Leader Fox electric bicycles, focusing on the Lucas model and Bafang M420 electric set.</p>
	<p>Bafang Display User Manual and Guide</p> <p>This guide provides detailed information on operating and understanding the Bafang display control panel for electric bicycles, covering features like lighting control, support modes, walk assist, trip data, and display symbols.</p>
	<p>TSDZ2 Central Motor Drive System Installation Manual</p> <p>Comprehensive installation guide for the YOSE POWER TSDZ2 Central Motor Drive System, detailing the steps for motor, display, and speed sensor installation, system connection, and parts list.</p>

	<p>Leader Fox Electric Bicycle Operating Instructions</p> <p>Comprehensive operating instructions for Leader Fox electric bicycles, covering setup, usage, maintenance, and troubleshooting. Includes details on the e-bike system, battery care, LCD display functions, and controller settings.</p>
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