mGYDY S-100

S-100 Ebike Color Display User Manual

Model: S-100 | Brand: mGYDY

Product Overview

The mGYDY S-100 Ebike Color Display is a smart LCD panel screen designed to enhance your electric bicycle riding experience. This display features a UART No. 2 communication protocol and is compatible with 24V-72V ebike systems. It provides real-time data, including battery charge, power consumption, speed, and distance, ensuring an informed and engaging journey.
Key features include:

- **UART No. 2 Protocol:** Ensures compatibility with controllers using the same communication standard.
- **Wide Voltage Compatibility:** Operates seamlessly with 24V, 36V, 48V, 60V, and 72V battery systems.
- **Waterproof Design:** Constructed with a waterproof connector and housing for reliable use in various weather conditions.
- **Real-time Data Display:** Provides essential cycling metrics such as speed, distance, and battery status.
- **Easy Installation:** Designed for straightforward setup with clearly defined connections.



Figure 1: The S-100 Ebike Color Display installed on an electric bicycle handlebar, showing its vibrant screen and compact design.

Setup and Installation

Proper installation is crucial for the optimal performance of your S-100 Ebike Color Display. Please follow these steps carefully.

1. **Compatibility Check:** Ensure your ebike controller uses the UART No. 2 communication protocol and is compatible with a 5-pin waterproof connector. This display will only function correctly with a matching protocol.
2. **Mounting the Display:**
    - Identify a suitable location on your ebike handlebars for the display mount. Ensure it does not obstruct your view or control of the bike.
    - Securely attach the display mount to the handlebars using the provided hardware. Tighten fasteners sufficiently to prevent movement during riding.
    - Slide the S-100 display onto the mounted bracket until it clicks into place.
3. **Connecting the Wiring:**
    - Locate the 5-pin waterproof connector on the display cable.

- Connect this plug to the corresponding 5-pin port on your ebike's controller or wiring harness. Ensure the connection is firm and fully seated to maintain its waterproof integrity.
- Route the cable neatly along the frame, securing it with cable ties to prevent snagging or damage.

4. **Initial Power-On Test:** After installation, turn on your ebike's power. The display should illuminate and show initial readings. If not, recheck all connections.



Figure 2: Components of the S-100 display, including the 5-pin waterproof connector and the separate control buttons, illustrating the connection points.

Operating Instructions

The S-100 display provides intuitive control and clear information during your ride.

Power On/Off

- To power on the display, press and hold the power button (usually the middle button on the control pad) for a few seconds.
- To power off, press and hold the power button again until the display shuts down.

Display Modes and Information

The display shows various real-time data. Use the up/down buttons on the control pad to cycle through different information screens or adjust settings.

- **Speed:** Current speed (KM/H or MPH).
- **Battery Level:** Graphical and percentage indication of remaining battery charge.
- **PAS Level:** Pedal Assist System level (if applicable to your ebike).
- **Trip Distance:** Distance covered during the current ride.

- **Odometer (ODO):** Total distance covered by the ebike.
- **Max Speed:** Maximum speed achieved during the current ride.
- **Average Speed:** Average speed during the current ride.
- **Error Codes:** Displays error messages if a system fault is detected.

Settings Adjustment

Accessing settings typically involves a long press of a specific button (refer to your ebike's main controller manual for specific button functions if not detailed here). Common adjustable settings may include:

- Unit selection (KM/H vs. MPH).
- Backlight brightness.
- Wheel diameter setting (critical for accurate speed and distance readings).



Figure 3: A detailed view of the S-100 display interface, highlighting the digital readouts for speed, battery status, and trip data.

Maintenance

To ensure the longevity and optimal performance of your S-100 Ebike Color 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 plastic housing.
- **Water Exposure:** While the display is waterproof, avoid submerging it in water or directing high-pressure water jets directly at it. Ensure the 5-pin connector remains clean and free of debris to maintain its waterproof seal.
- **Cable Inspection:** Periodically check the display cable and connector for any signs of wear, fraying, or damage. Ensure connections remain secure.
- **Storage:** When not in use for extended periods, store your ebike in a dry, temperate environment to protect the display and other electronic components.

Troubleshooting

If you encounter issues with your S-100 Ebike Color Display, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Display does not power on.	• Loose or disconnected power cable. • Ebike battery is dead or off. • Incorrect communication protocol.	• Check all cable connections, especially the 5-pin connector. • Ensure ebike battery is charged and turned on. • Verify your ebike controller uses UART No. 2 protocol.
Incorrect speed or distance readings.	• Incorrect wheel diameter setting. • Speed sensor issue (not display related).	• Access display settings and verify the wheel diameter matches your ebike's wheel size. • Consult your ebike's main manual for speed sensor troubleshooting.
Display shows an error code.	• System fault detected by the ebike controller.	• Note the error code and consult your ebike's main controller manual for its meaning and troubleshooting steps.
Display screen is dim or unreadable.	• Backlight setting is too low. • Extreme ambient light.	• Adjust backlight brightness in the display settings. • Move to a shaded area if possible.

Specifications

Feature	Detail
Model Name	S-100 Ebike Display
Brand	mGYDY
Communication Protocol	UART No. 2

Feature	Detail
Voltage Compatibility	24V-72V (auto-identified)
Connector Type	5-Pin Waterproof Plug
Material	ABS Plastic
Color	Black
Screen Size	96 mm (approx. 3.78 inches)
Human Interface Input	Buttons (via external control pad)
Included Components	S-100 Ebike Display Unit



Figure 4: Visual representation of key S-100 instrument specifications such as weight, color, plug type, and core wire configuration.

Warranty and Support

The mGYDY S-100 Ebike Color Display comes with a**1-Year Manufacturer Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.
For warranty claims, technical support, or any inquiries regarding your product, please contact the manufacturer or your point of purchase. Ensure you have your purchase receipt and product model information available when seeking support. For further assistance, you may refer to the official mGYDY website or contact their customer service department. (Specific contact details are not provided in this manual; please refer to product packaging or manufacturer's website for current contact information.)

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