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› mGYDY SW102/T Electric Bike LCD Display User Manual

mGYDY SW102T

mGYDY SW102/T Electric Bike LCD Display User Manual

Model: SW102T

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your mGYDY SW102/T Electric Bike LCD Display. Please read this manual thoroughly before using the product to ensure proper function and safety. This display is designed for use with BAFANG mid-drive motors.

2. PRODUCT OVERVIEW

The mGYDY SW102/T is a compact and intelligent LCD display for electric bicycles. It features a 1.37-inch screen designed for clear visibility, even in bright sunlight. The display provides essential riding data and control functions, enhancing your ebike experience.



Image 2.1: Front view of the mGYDY SW102/T Electric Bike LCD Display.

Adjustment of backlight

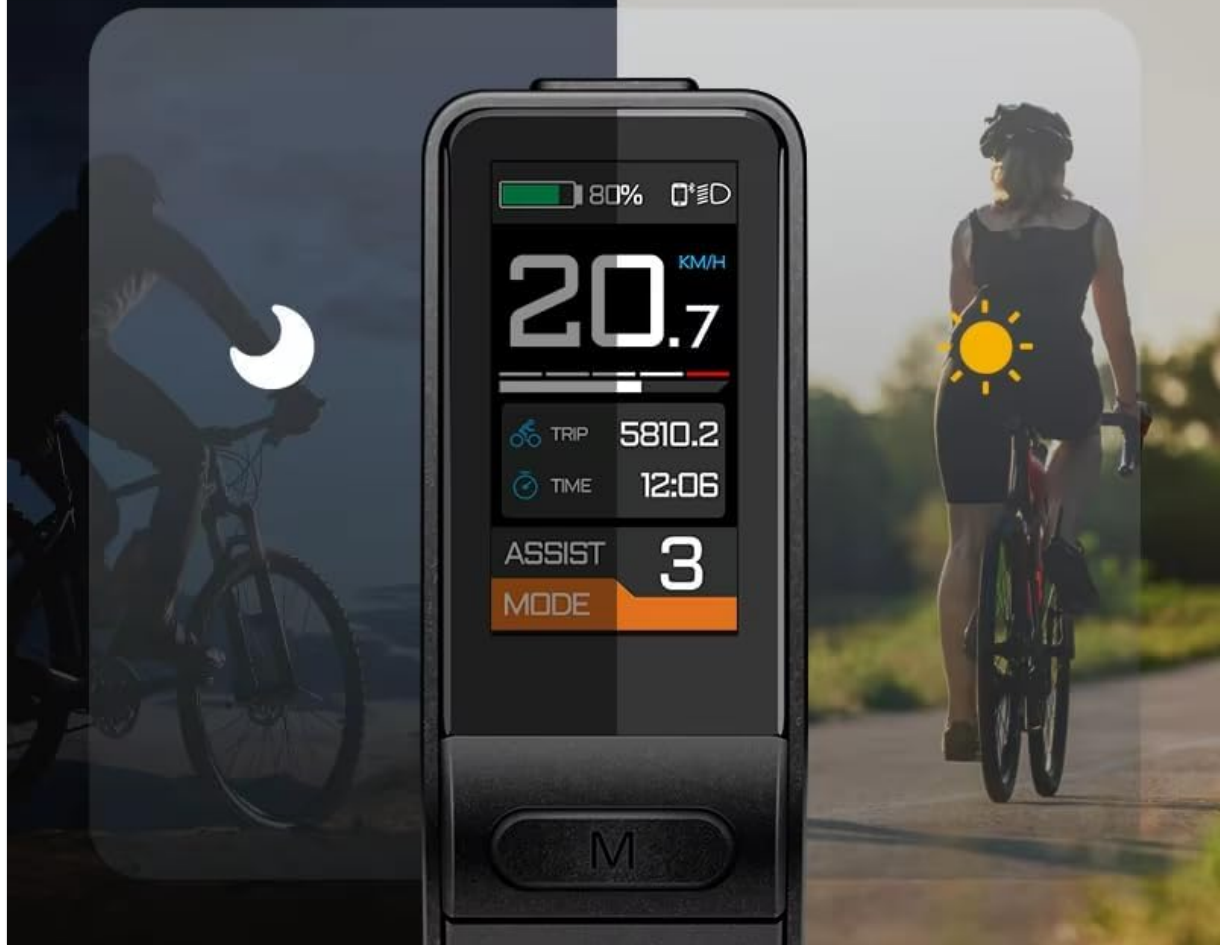


Image 2.2: Comparison between the SW102 (1.3" OLED screen) and SW102/T (1.37" TFT screen) models, highlighting the larger and higher-resolution screen of the SW102/T.

3. COMPATIBILITY

This SW102/T ebike display is exclusively compatible with BAFANG electric bike motors utilizing the UART 5.0~5.8 communication protocol. It is specifically designed for BAFANG BBS01, BBS02, and BBSHD mid-drive motors. Compatibility with other BAFANG hub motors or other brand motors is not supported.



Image 3.1: Diagram illustrating compatibility with BAFANG BBS Series motors via UART protocol (5-pin female round connector).

4. PACKAGE CONTENTS

The following items are included in your product package:

- 1 x BAFANG LCD Display (SW102/T)
- 1 x Display Holder
- Gaskets for installation

5. SETUP AND INSTALLATION

The SW102/T display is designed for easy installation on the left side of your bicycle's handlebar. Ensure your handlebar has a diameter of $\phi 22.2\text{mm}$ for proper fitment.

1. Identify a suitable position on the left side of your handlebar.
2. Place the display holder around the handlebar, using the provided gaskets if necessary to ensure a snug fit.
3. Secure the display holder firmly with the screw.

4. Connect the display's cable to the corresponding UART connector from your BAFANG motor system. Ensure the connection is secure.



Image 5.1: The SW102/T display installed on a bicycle handlebar, showing its compact size and placement.

Waterproof IPX5



Image 5.2: Detailed dimensions of the SW102/T display, including its height (68mm/2.68in), width (23mm/0.92in), and handlebar clamp diameter (22.2mm).

6. OPERATING INSTRUCTIONS

The SW102/T display features three buttons for easy operation. The main 'M' button is typically used for mode selection or power, while the up and down arrows control various settings and assist levels.

6.1 Function Overview

- **Metric/Imperial Switch:** Easily switch between kilometers and miles for speed and distance readings.
- **Mileage Display:** View subtotal mileage (TRIP) for current rides and total mileage (ODO) for overall distance.
- **Speed Display:** Shows real-time speed (SPEED), maximum speed (MAX), and average speed (AVG).
- **Power Assist Control:** Adjust power assist levels from 0 to 5. Level 0 typically means no assist, while Level 5 provides maximum assistance.
- **Battery Indication:** Six levels of electricity indication, along with under-voltage prompts.
- **Headlamp Indication:** Displays the status of the headlamp switch (requires controller support).

- **6km/h Walk Assist Function:** Activates a low-speed assist for walking alongside the bike.

6.2 Power Assist Levels

The display allows you to select from 0 to 5 power assist levels, influencing the motor's output and your riding experience.



Image 6.1: Visual representation of the display showing different power assist levels (0-5) and corresponding speed and battery indications.



Image 6.2: The display illustrating its backlight adjustment capability for optimal visibility in varying light conditions, from night to bright sunlight.

7. MAINTENANCE

The SW102/T display features an IP65 waterproof rating, providing protection against dust and low-pressure water jets. This ensures durability in various weather conditions. To maintain the display's performance and longevity:

- Avoid submerging the display in water.
- Clean the screen with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure all connections are dry and free of debris before riding in wet conditions.



Image 7.1: The SW102/T display shown in a water environment, indicating its IPX5 waterproof rating.

8. TROUBLESHOOTING

The display includes an error code indication feature, which can assist in identifying system issues. If an error code appears, consult your ebike motor’s manual or contact technical support for guidance. The communication interface of the connecting line is designed for convenient system maintenance and parameter setting.

9. SPECIFICATIONS

Model	SW102/T
Power Supply	DC 24V/36V/48V
Rated Current	12mA/36V
Weight	47g (approx. 1.66 oz)
Support Levels Mode	0-5

Shutdown Leakage Current	<1uA
Screen Specifications	LCD Digital Tube, 1.37 Inches
Communication Mode	UART (default)
Operating Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Storage Temperature	-30°C ~ 80°C (-22°F ~ 176°F)
Waterproof Grade	IP65
Storage Humidity	30%-70%
Material	ABS
Color	Black

Product Information

PRODUCT INFORMATION

Model : SW102/T

product name : Bafang instrument

Core wire specifications : 5pin

Waterproof level: IP65

operation temperature : -20°C~60°C

Voltage : 24V/36V/48V

Joint : Waterproof joint

Color : Black

Weight : 46.3g

Size : 68.2mm/宽23.4mm

Image 9.1: A visual summary of the SW102/T product information, including model, core wire specifications, operation temperature, joint type, weight, product name, waterproof level, voltage, color, and size.

10. WARRANTY AND SUPPORT

The mGYDY SW102/T Electric Bike LCD Display comes with a 1-year manufacturer's warranty. For any

technical assistance, warranty claims, or inquiries, please contact your retailer or the manufacturer's customer support. Please retain your proof of purchase for warranty validation.