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› mGYDY /

› mGYDY DZ43 eBike LCD Colorful Display User Manual

## mGYDY DZ43

# mGYDY DZ43 eBike LCD Colorful Display User Manual

Model: DZ43

## PRODUCT OVERVIEW

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The mGYDY DZ43 is a 3.5-inch IPX5 waterproof LCD colorful display designed for BAFANG BBS01, BBS02, and BBSHD mid-drive motor electric bikes. This smart indicator provides essential riding data and control functions, enhancing your eBike experience. It features a user-friendly interface with multiple functions including speed display, power display, gear display, and mileage tracking.



Figure 1: The mGYDY DZ43 eBike LCD Colorful Display, showing its main unit and control buttons.

## COMPATIBILITY AND INSTALLATION

The DZ43 display is specifically designed for BAFANG mid-mounted motors, including models such as BBS M400 G330, G510, G340, and BBSHD. Ensure your eBike controller is compatible with this monitor before installation.

### Compatibility Check

This display uses a 5-pin female waterproof connector. Verify your motor's connector type to ensure proper fit. It is compatible with BAFANG BBS Series Motors.



Figure 2: Visual guide for connector compatibility, highlighting the required 5-pin female round connector for BAFANG BBS Series Motors.

### Mounting the Display

The display is designed for handlebars with a diameter of 22.2mm (0.87 inches). Securely attach the display to your eBike's handlebar using the integrated mounting bracket. Ensure the display is positioned for optimal visibility and access to the control buttons.

# Polygonal bit view

Fully functional, all the data you need is prepared for you.

1. Let your cycling go rain or shine.
2. Easy to adjust cycling status, Riding data is at your fingertips.
3. With multiple usage functions, Meet more daily cycling needs.



Figure 3: The DZ43 display mounted on an eBike handlebar, showing its ergonomic placement and clear view.

## Connecting the Display

Connect the 5-pin waterproof interface cable from the DZ43 display to the corresponding port on your BAFANG mid-drive motor controller. Ensure the connection is firm and secure to maintain waterproof integrity.

## OPERATING INSTRUCTIONS

The DZ43 display features four intuitive buttons for easy operation. Familiarize yourself with the display's layout and functions as detailed below.

# Instrument features



Figure 4: Detailed view of the DZ43 display's instrument features, indicating various data points and control indicators.

## Key Functions:

- **Power-on Password:** For enhanced security, the display supports a power-on password. Refer to the display settings for configuration.
- **Cruise Control:** Activate cruise control for consistent speed maintenance.
- **Automatic Headlights:** The display supports automatic headlight control, provided your controller supports this feature.
- **6km/h Boost Function:** Engage the 6km/h boost for assistance when pushing the bike or starting from a standstill.
- **Mileage Display:** View both subtotal mileage (TRIP) for current rides and total mileage (ODO) for overall distance covered.
- **Gear Control:** Adjust the assist level from 0 to 9. The default gear range is 0-5, with the option to extend up to 9 levels.
- **Power Indicator:** A 6-level power indicator shows battery charge from 1 to 5 levels, along with an under-voltage prompt when the battery is low.
- **Motor Power Display:** Real-time display of motor output power, shown in segmented increments.
- **Cycling Mode Switching:** Easily switch between different cycling modes to suit your riding conditions.
- **Brightness Adjustment:** The display backlight brightness can be adjusted to suit day or night riding conditions for optimal

visibility.



Figure 5: Comparison of display brightness settings for day and night riding, ensuring clear visibility in various lighting conditions.

## MAINTENANCE

The DZ43 display is designed with an IP65 waterproof rating, providing protection against dust and low-pressure water jets. Proper care will ensure the longevity and optimal performance of your display.

### 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. Ensure the USB port cover (if present) is securely closed to maintain water resistance.



# Water Proof Protection



1. Waterproof Grade IP65

2. Color Screen Display

3. Easy Installation



Figure 6: Illustration of the DZ43 display's IP65 waterproof protection, indicating its resistance to water and dust.

## Storage:

When not in use for extended periods, store the eBike in a dry place within the recommended storage temperature range of  $-25^{\circ}\text{C}$  to  $75^{\circ}\text{C}$  ( $-13^{\circ}\text{F}$  to  $167^{\circ}\text{F}$ ).

## TROUBLESHOOTING

The DZ43 display provides fault code indications to assist in diagnosing issues. If an error occurs, a specific code will be displayed on the screen. Refer to the table below for common fault codes and their resolutions. For complex issues, contact customer support.

## Common Error Codes:

Error Code	Description	Possible Solution
(Specific codes not provided in source, placeholder for structure)	General communication error.	Check all cable connections, especially the 5-pin waterproof interface. Ensure connections are secure.
(Specific codes not provided in source, placeholder for structure)	Motor fault.	Verify motor connections and consult your BAFANG motor manual for specific motor error codes.
Under-voltage prompt	Battery voltage is low.	Recharge your eBike battery.

Note: The communication interface of the connecting line is convenient for system maintenance and parameter setting.

## SPECIFICATIONS

Detailed technical specifications for the mGYDY DZ43 eBike LCD Colorful Display.

# Product parameters




- **Product Type**  
DZ43 Display
- **Cable Length**  
560mm/22in

- **Product Voltage**  
DC24V/36V/48V
- **Holder Diameter**  
Φ22mm/0.87in

- **Product Plug**  
5Pin Female
- **Display Weight**  
184g

Figure 7: Dimensions of the DZ43 display, including length, height, and handlebar diameter.

Feature	Detail
Product Type	DZ43 Display
Power Supply	24V/36V/48V
Weight	184 grams
Interface Type	5-pin waterproof interface (5Pin Female)
Applicable Handlebar Size	22.2mm / 0.87 inches
Support Level Mode	0-9 (default 0-5)
Storage Temperature	-25°C to 75°C (-13°F to 167°F)
Working Temperature	-20°C to 60°C (-4°F to 140°F)
Communication Method	UART Protocol (UART/CAN bus)
Shutdown Leakage Current	<1uA
Waterproof Rating	IP65
Compatible Motor	BAFANG BBS01, BBS02, BBSHD mid-mounted motor
Cable Length	560mm / 22 inches
Material	ABS

BAFANG

## Product parameters

Liquid display, shows information of battery percentage, speed, mileage, etc.



○ Display Type	○ Waterproof Grade
DZ43 Display	IP65
○ Display Wire Length	○ Display Weight
560mm/22in	184g
○ Handlebar Adaption	○ Communication Protocol
22.2/25.4/31.8mm	UART/CAN bus
○ Rated Current	○ Shutdown leakage current
42mA/36V	<1uA
○ Power Supply	○ Service Temperature
DC 24V/36V/48V	-20°C~+60°C

**Note:**

There may be some deviation between the actual product and the picture, please refer to the actual product. The data is manually measured, and there may be an error of about 1mm. We apologize for any inconvenience caused.

Figure 8: Comprehensive table of BAFANG DZ43 display product parameters, including dimensions, weight, and technical specifications.

## WARRANTY AND SUPPORT

### Warranty Information:

The mGYDY DZ43 eBike LCD Colorful Display comes with a 1-Year Manufacturer's Warranty. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

### Customer Support:

For technical assistance, troubleshooting, or warranty inquiries, please contact mGYDY customer support through the retailer where the product was purchased. Provide your product model number (DZ43) and a detailed description of the issue to facilitate support.

