

## BAFANG LV-US DPC010 Display

# BAFANG DPC010 Ebike Display

## USER MANUAL

### 1. Product Overview

The BAFANG DPC010 is a 4-inch TFT color display designed for BAFANG CAN protocol mid-drive motors. It provides essential riding data, allows for motor parameter customization, and enhances your ebike experience with its intuitive interface and robust features.



Figure 1.1: BAFANG DPC010 Ebike Display and control unit, showing the screen interface and connection cables.

## 2. Compatibility

The DPC010 display is specifically designed for BAFANG CAN protocol mid-motor systems. It is compatible with a wide range of BAFANG motors including M200, M300, M400, M410, M420, M500, M560, M510, M600, M620, M800, and M820 CAN Version motors.

**Important Note:** This display is *not* compatible with UART protocol motors (which typically have a 5-pin circular connector). Attempting to use adapter cables or modifying connectors will not resolve compatibility issues. Always verify your motor's protocol and connector type before installation.

# COMPATIBILITY



Figure 2.1: Diagram illustrating compatibility with BAFANG CAN protocol motors (5-pin male triangular connector) and incompatibility with UART protocol motors and other brand motors.

The display mount is designed to fit most standard handlebar diameters, including 22.2mm, 25.4mm, 31.8mm, and 35mm, ensuring a secure fit on various ebike setups.

# Compatible With Most Handlebars



The adjustable mount fits handlebar diameters of 35mm, 31.8mm, 25.4mm and 22.2mm, fitting most bicycles and ensuring a perfect fit.



Figure 2.2: Diagram showing handlebar diameter compatibility for the BAFANG DPC010 display mount.

## 3. Setup and Installation

### 3.1. Package Contents

Before beginning installation, ensure all components are present:

- BAFANG DPC010 Display Unit
- Control Unit (Button Holder)
- Mounting Bracket and Screws
- Connection Cable (integrated)

### 3.2. Mounting the Display

1. Choose a suitable position on your handlebar for the display and control unit. Ensure it does not obstruct your view or interfere with braking/shifting.
2. Loosen the screws on the display mounting bracket.

3. Place the bracket around the handlebar at the desired position.
4. Tighten the screws securely, ensuring the display is stable and does not rotate.
5. Mount the separate control unit (button holder) next to your left grip for easy access.

### 3.3. Connecting the Cables

The DPC010 display connects to your ebike's main wiring harness (1T4 cable) via a 5-pin male triangular connector. Ensure a firm and secure connection.

## CABLE PARAMETERS

- This image shows the wiring diagram of the display cable coming from the 1T4 cable.
- Please confirm with the seller of motor that if your cable is with the same wiring diagram.
- Attention: If the wiring diagram is different, the display will not work.

### Female 5 Pins Our EB1T4 Connector



### Male 5 Pins Our Display Connector



Figure 3.1: Wiring diagram illustrating the female 5-pin EB1T4 connector and male 5-pin display connector, detailing pin assignments.

### 3.4. Initial Power On

Once mounted and connected, power on your ebike system. The display should illuminate and show the default interface. If the display does not power on, check all connections and ensure your ebike battery is charged.

## 4. Operating Instructions

### 4.1. Basic Operation

- Power On/Off:** Press and hold the power button on the control unit to turn the display on or off.
- Navigation:** Use the up/down arrows on the control unit to cycle through different information screens or adjust settings. The 'M' button typically enters/exits menus or confirms selections.

### 4.2. Display Modes and UI

The DPC010 features a 4-inch TFT screen with multiple UI modes (Sports, Fashion, Technology) to suit your preference. It displays real-time data such as speed, voltage, power, cadence, calories, trip distance, odometer, and error codes.

## DPC010 Digital Display



Figure 4.1: The DPC010 digital display interface showing various data points and app integration details.

### 4.3. Automatic Backlight

The display features an automatic light sensor that adjusts the screen brightness based on ambient light conditions. It also automatically activates your ebike's headlight at dusk for improved safety.

# AUTOMATIC BACKLIGHT



Figure 4.2: Comparison demonstrating the automatic backlight feature of the display in day and night conditions.

## 4.4. Bluetooth Navigation & App Control

Connect the DPC010 display to the "Bafang Go+" app (available on iOS/Android) via Bluetooth. The app allows you to:

- Customize motor parameters.
- Track real-time navigation.
- Sync ride routes.
- Monitor battery health with low-voltage alerts.
- Share GPS-tracked adventures.

# Ride Smarter Experience More



Search for "BAFANG GO+" in the app store and download



Figure 4.3: Visual representation of the Bafang Go+ app interface and its features.

## 4.5. PAS Levels and Riding Modes

The display supports 5 PAS (Pedal Assist System) levels and 6 adjustable riding modes, allowing you to adapt the motor's assistance to different road conditions and riding scenarios. This flexibility helps optimize energy consumption and reduce rider fatigue.

## 4.6. Type-C Fast Charging Port

The integrated Type-C port allows for convenient and quick charging of external devices on the go.

## 5. Specifications

Detailed technical specifications for the BAFANG DPC010 Ebike Display:

# PRODUCT SPECIFICATION



• Connector:	Male 5 PIN	• Button Holder:	Ø22.2mm
• Protocol:	CAN	• Display Holder:	Ø35/31.8/25.4/22.2(mm)
• Screen:	4" TFT	• Waterproof:	IP66
• Voltage:	36V/48V/52V/60V/72V	• Charge Port:	Type-c
• PAS Level:	0~3, 0~5, Optional	• Operating temperature:	-20°C~45°C
• Speed Limited:	1km/h ~ 99km/h	• Storage temperature:	-20°C~60°C
• Brightness:	10%~100%	• Auto OFF:	OFF, 1~9min, Optional

Figure 5.1: Detailed product specification diagram for the BAFANG DPC010 display, including dimensions and key parameters.

Feature	Specification
Brand	BAFANG
Model Number	LV-US DPC010 Display
Screen Size	4 Inches
Display Type	TFT LCD
Connector	Male 5 PIN (Triangular)
Protocol	CAN
Voltage Compatibility	36V/48V/52V/60V/72V
PAS Level	0-3, 0-5 (Optional)
Speed Limit	1km/h ~ 99km/h

Feature	Specification
Waterproof Rating	IP66
Charge Port	Type-C
Operating Temperature	-20°C ~ 45°C
Storage Temperature	-20°C ~ 60°C
Auto Off	OFF, 1~9min (Optional)
Material	Plastic
Mounting Type	Handlebar Mount
Sensor Type	Speed Sensor, Cadence Sensor, GPS Sensor
Connectivity Technology	Bluetooth

## 6. Maintenance

- Cleaning:** Use a soft, damp cloth to clean the display screen and body. Avoid abrasive cleaners or solvents that could damage the surface.
- Waterproofing:** The display has an IP66 waterproof rating, protecting it from strong jets of water and dust. While it is resistant to rain and splashes, avoid submerging the display in water.
- Cable Inspection:** Periodically check all cables and connectors for signs of wear, damage, or corrosion. Ensure connections remain secure.
- Software Updates:** Check the Bafang Go+ app or BAFANG's official website for any available firmware updates for the display to ensure optimal performance and access to new features.

## 7. Troubleshooting

- Display Does Not Power On:**

- Ensure the ebike battery is charged.
- Check all cable connections, especially the 5-pin triangular connector, to ensure they are fully seated.
- Verify that your motor is a BAFANG CAN protocol motor. This display is not compatible with UART motors.

- No Speed/Cadence Reading:**

- Check the connection of the speed sensor and cadence sensor to the motor.
- Ensure the magnets for the sensors are correctly positioned and within range of the sensor units.

- Bluetooth Connection Issues:**

- Ensure Bluetooth is enabled on your smartphone.

- Make sure the Bafang Go+ app is installed and updated to the latest version.
- Restart both the display and your smartphone, then try connecting again.

- **Error Codes Displayed:**

- Refer to the Bafang Go+ app or BAFANG's official documentation for a comprehensive list of error codes and their meanings.
- Common error codes often relate to motor, battery, or sensor issues.

## 8. Warranty and Support

### 8.1. Warranty Information

The BAFANG DPC010 Ebike Display comes with the following warranty terms:

- **30 Days Return:** Eligible for return within 30 days of purchase.
- **90 Days Replacement:** Eligible for replacement within 90 days for manufacturing defects.
- **Lifetime Technical Guidance:** Access to technical support and guidance for the lifetime of the product.

### 8.2. Customer Support

For technical assistance, warranty claims, or any questions regarding your BAFANG DPC010 display, please contact BAFANG customer support through their official website or the retailer from whom you purchased the product. When contacting support, please have your product model number and purchase details ready.