BAFANG LV-US DPC080 Display

BAFANG DPC080 Ebike Display User Manual

Model: LV-US DPC080 Display

Introduction

The BAFANG DPC080 1.9" TFT EBike Display is designed for BAFANG CAN Protocol mid-motor systems, including M200, M300, M400, M410, M420, M500, M560, M510, M600, M620, M800, and M820. This display provides a comprehensive and user-friendly interface for your electric bicycle, enhancing your riding experience with clear data and intuitive controls.

Important Compatibility Note: This display operates using the CAN protocol. It is**not** compatible with UART protocol motors, which typically feature a 5-pin circular connector. Attempting to use adapter cables or modifying connectors will not resolve compatibility issues. Always verify your motor's connector type before purchase. The compatible 1T4 cable connector should be a 5-pin female triangle connector.

Key Features

- **Universal Fit & Voltage Flexibility:** Compatible with 36V/48V/52V Bafang CAN protocol motors and fits 22.2MM handlebars. Features plug-and-play connectors for easy installation.
- **Day/Night All-Weather Readability:** Equipped with a 1.9" TFT anti-glare screen (IPX7 waterproof) for clear visibility in various conditions. Includes an auto-dimming backlight and a light sensor for automatic headlight activation.
- **Customizable Ride Experience:** Allows setting speed limits (1-99 km/h) via app or display. Reprogram motor torque curves, adjust pedal assist sensitivity, and monitor real-time wattage/voltage.
- **Multilingual Support & Type-C Fast Charging:** Supports 6 languages (English, German, French, etc.) and includes a Type-C port for quick charging. Offers 6 riding modes for adaptable speed settings.
- **Battery Management:** Features a low-voltage alarm and dual displays (%/voltage) for monitoring remaining range. Syncs with the Bafang Go+ app for battery health analysis.

Setup and Installation

1. Unpacking and Inspection

Carefully unpack the BAFANG DPC080 display and all included components. Inspect for any signs of damage during

transit. Ensure all parts listed in the packaging are present.

2. Compatibility Check

Before installation, confirm your ebike motor uses the Bafang CAN protocol. The display is designed for BAFANG M200, M300, M400, M410, M420, M500, M560, M510, M600, M620, M800, M820 CAN Version mid-motor systems. Verify your 1T4 cable has a 5-pin female triangle connector.



Image: Compatibility Overview. This diagram illustrates the difference between compatible CAN protocol (5-pin male triangular) and incompatible UART protocol (5-pin female round) connectors. It also shows compatible Bafang mid-drive motors (M200-M820) and incompatible other brand motors or Bafang hub/BBS series UART motors.

3. Mounting the Display

The DPC080 display is designed to fit handlebars with a diameter of 22.2mm. Position the display on your handlebar in a location that provides clear visibility and easy access to the buttons without obstructing your riding. Secure the display mount firmly using the provided hardware.



Image: Handlebar Mounting. This image demonstrates the display mounted on a 22.2mm handlebar, highlighting its adjustable fit and optimal positioning for rider convenience.

4. Connecting the Cables

Connect the display cable to the corresponding 1T4 cable from your Bafang mid-drive motor system. Ensure the 5-pin male connector from the display aligns correctly with the 5-pin female triangle connector of the 1T4 cable. Push firmly until a secure connection is made. The system uses plug-and-play connectors, requiring no special tools.



Image: Cable Parameters and Wiring Diagram. This image provides a detailed wiring diagram for the display cable, showing the pin assignments for both the EB1T4 connector and the display connector. It is crucial to confirm your cable's wiring matches this diagram for proper functionality.

Operating Instructions

1. Powering On/Off

To power on the display, press and hold the power button located on the display unit. To power off, press and hold the power button again until the display shuts down. The display also features an auto-off function, configurable from 1 to 10 minutes of inactivity.

2. Display Interface Overview



Image: DPC080.C Digital Display. This image highlights the key information presented on the display, including battery level, real-time speed, power output, headlight status, trip distance, current gear, and estimated remaining range.

The 1.9" TFT screen provides real-time data:

- **Battery Level:** Indicated by a graphic and percentage.
- **Real-time Speed:** Displays current speed in km/h.
- **Power Indication Bar:** Shows motor power output.
- **Headlight Indication:** Icon illuminates when headlights are active.
- **Single Mileage (Trip):** Distance covered in the current ride.
- **Gear Indication (PAS Level):** Shows the current Pedal Assist System level (1-5 PAS).
- **Residual Mileage (Range):** Estimated remaining distance based on battery level and riding conditions.

3. Adjusting Settings

The display allows for various adjustments to customize your riding experience:

- **Speed Limit:** Set the maximum speed between 1 km/h and 99 km/h. This can be adjusted via the display or the Bafang Go+ app.
- **Pedal Assist Levels (PAS):** The display supports 5 levels of pedal assist. Use the up/down buttons to cycle through these levels, adjusting the motor's assistance.
- **Automatic Backlight:** The display features an automatic backlight that adjusts to ambient light conditions, ensuring readability day or night. A light sensor activates headlights at dusk.

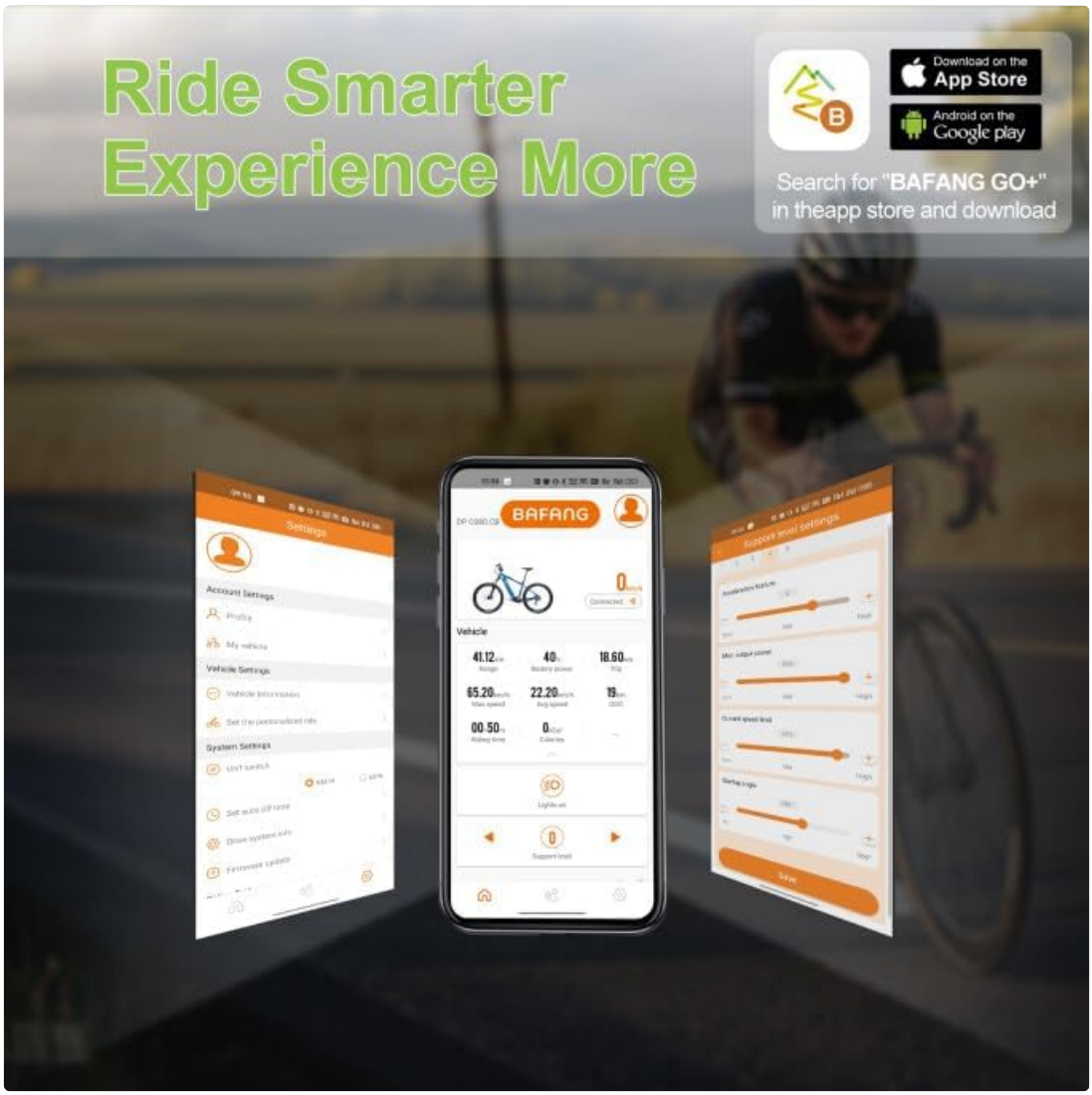


Image: Automatic Backlight. This visual demonstrates how the display's backlight automatically adjusts for optimal visibility in both bright daylight and low-light night conditions.

- **Multilingual Support:** Switch between 6 languages including English, German, and French.
- **Type-C Charging Port:** Use the integrated Type-C port to charge your mobile devices on the go.

4. Bafang Go+ App Integration

Enhance your experience by connecting the display to the Bafang Go+ app (available on App Store and Google Play). The app allows for advanced customization and data analysis:

- Reprogramming motor torque curves for specific terrains.
- Fine-tuning pedal assist sensitivity.
- Tracking real-time wattage and voltage.
- Analyzing battery health trends and monitoring remaining range.



Image: Ride Smarter, Experience More with Bafang Go+ App. This image illustrates the user interface of the Bafang Go+ app, showcasing its capabilities for customizing ride parameters and monitoring performance data.

Maintenance

- **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.
- **Water Resistance:** The display is IPX7 waterproof, meaning it can withstand immersion in water up to 1 meter for 30 minutes. However, it is recommended to avoid prolonged exposure to heavy rain or submersion. Ensure the Type-C port cover is securely closed when not in use.
- **Cable Inspection:** Periodically check all cables and connectors for any signs of wear, fraying, or damage. Ensure connections remain secure.
- **Software Updates:** Check the Bafang Go+ app or Bafang's official website for any available firmware updates for your display to ensure optimal performance and access to new features.
- **Storage:** When storing your ebike for extended periods, especially in cold conditions, it is advisable to remove the battery (if detachable) and store it at room temperature. The display's storage temperature range is -20°C to 60°C.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Display does not power on.	Low or dead ebike battery; Loose cable connection; Faulty display.	Charge ebike battery; Check all cable connections, especially the 5-pin triangle connector; Contact Bafang support if issue persists.
Display shows "Error Code".	Motor or sensor malfunction; Communication error.	Refer to the Bafang motor manual for specific error codes. Often, restarting the system (power off/on) can resolve temporary errors. Check motor and sensor connections.
Inaccurate speed reading.	Speed sensor misalignment or damage; Incorrect wheel circumference setting.	Check speed sensor position and ensure it's clean. Verify wheel circumference setting in display settings or Bafang Go+ app.
Display not compatible with motor.	Motor uses UART protocol instead of CAN protocol.	This display is exclusively for Bafang CAN protocol motors. It is not compatible with UART motors. Ensure your motor is a CAN version.
Screen difficult to read in bright light.	Backlight setting too low; Glare.	The display has an auto-dimming feature. Ensure it's functioning correctly. Adjust brightness settings if available, or reposition the display slightly to reduce direct glare.

Product Specifications

Feature	Detail
Model	LV-US DPC080 Display
Screen Type	1.9" TFT LCD
Protocol	CAN Protocol
Voltage Compatibility	36V / 48V / 52V
Waterproof Rating	IPX7
Handlebar Diameter	22.2mm
Connectivity	USB (Type-C charging port)
Operating Temperature	-20°C to 45°C
Storage Temperature	-20°C to 60°C
Dimensions (L x W x H)	Approx. 74.4mm x 50.7mm x 46.7mm (3.35 x 2.64 x 2.52 inches package)
Cable Length	Approx. 300mm (11.8 inches)
Material	Plastic
PAS Levels	5

Feature	Detail
Speed Limit	1km/h ~ 99km/h
Brightness	25%, 50%, 75%, 100% (Optional)
Auto OFF	OFF, 1~10min Optional

PRODUCT SPECIFICATION



• Connector:	Male 5 PIN	• Button Holder:	ø22.2mm
• Protcol:	CAN	• Charge Port:	Type-c
• Screen:	1.9"TFT	• Waterproof:	IPX7
• Voltage:	36V/48V/52V	• Storage Humidity:	30%-70%
• PAS Level:	5PAS	• Operating temperature:	-20℃~45℃
• Speed Limited:	1km/h ~ 99km/h	• Storage temperature:	-20℃~60℃
• Brightness:	25% 50% 75% 100%	• Auto OFF:	OFF、1~10min Optional

Image: Product Specification Overview. This image provides a visual representation of the display's physical dimensions and a comprehensive table summarizing its technical specifications.

Warranty and Support

The BAFANG DPC080 Ebike Display comes with the following warranty terms:

- **30 Days Return Policy:** For eligible returns.

- **90 Days Replacement:** For manufacturing defects.
- **Lifetime Technical Guidance:** Ongoing support for technical inquiries.

For technical assistance, warranty claims, or further inquiries, please contact BAFANG customer support through their official website or the retailer from whom you purchased the product.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question