

MANUAL

For CDC6 Display

PREFACE

Dear users:

In order to make you have better operation experience of the e-bike, please read the CDC6 MANUAL carefully before using. We will guide you to learn the detailed operation steps of CDC6 display, including the mounting steps and functions. Meanwhile, this MANUAL will help you find the solutions to the possible malfunctions.

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1. Product Introduction

CDC6 display adopts 3.5" LCD screen, and equip with the light and beautiful buttons, exquisite appearance with matte black. The display interface frame is clear, double-layers printed circuit board(PCB), nylon bracket, and ABS shell (The ABS material is allowed for normal use at temperature ranging from -20°C to 60°C, meanwhile, it can also guarantee excellent mechanical properties.)

The same display can widely match the battery of voltage 24V/33V/36V/48V/52V, meanwhile, integrated 24V/33V/36V/48V/52V headlight ON/OFF function. The display's default sleep time is 10 minutes.



Figure1 - Product appearance

Main Functions:

Trip mileage and total mileage indication / Speed indication / Headlight indication / PAS level setting / Residual battery capacity indication / Error code indication / Km/h and MPH switch / Wheel diameter setting / USB charging / 6km/h walk assistance / Bluetooth connection(optional)

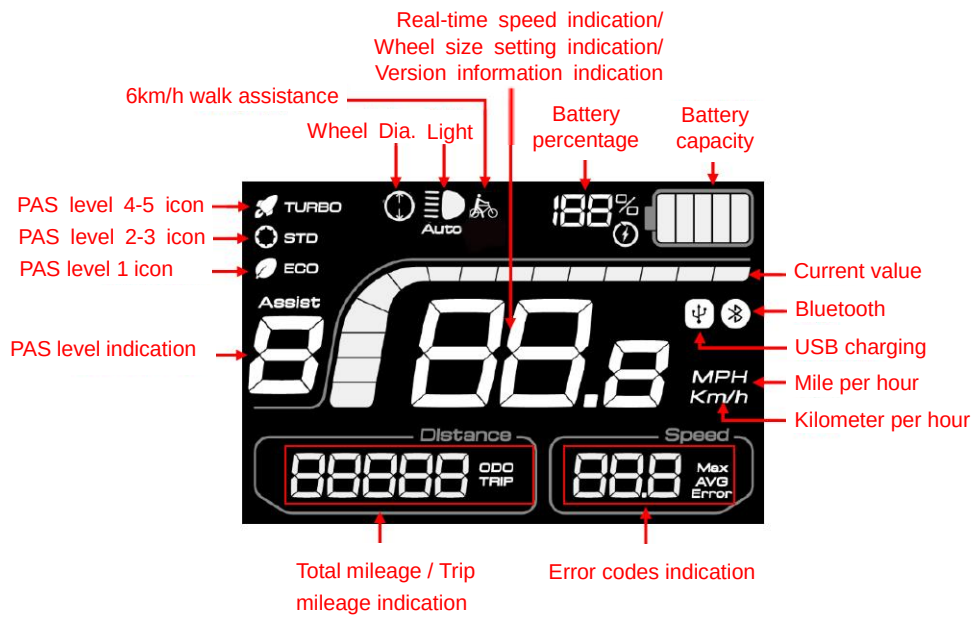


Figure2 - Icons definition



Figure3 - All icons indication interface



Figure4 - Normal indication interface after power-on
(the backlight keeps lighting)

2. Technical Parameter

Name	Technical Parameter
Rated Voltage	24V/33V/36V/48V/52V
Rated Current	24V/19mA, 33V/16mA, 36V/15.5mA, 48V/14.5mA, 52V/14.4mA
Ambient Temperature	-20°C ~ +60°C
Ambient Humidity	0 ~ 100%RH
Protection Level	IP65
Visible Angel of Screen	Horizontal 160°, Vertical 160°

Table1 - Technical Parameter Sheet

3. Appearance &Dimensions

The standard bracket diameter is Ø31.8mm, we can provide the reduction sleeve of Ø22.2mm and Ø25.4mm, to adapt to different handlebar size.



Figure5 - Product dimensions

4. Button Definition

The equipped CDButton2-B has four buttons, including M(setting) button, UP button, DOWN

button and POWER button.

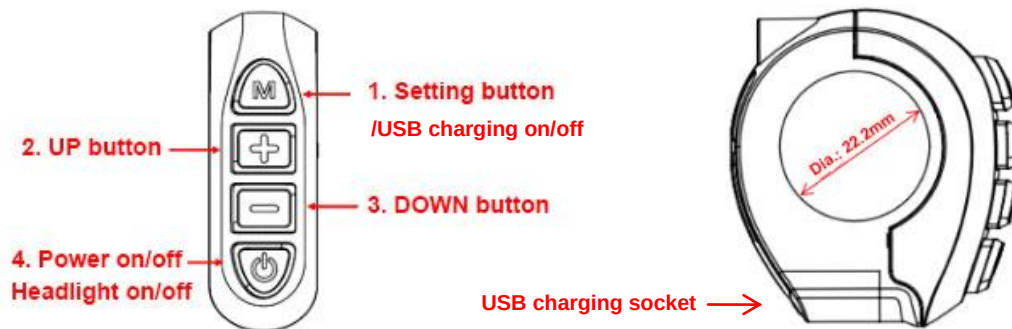


Figure6 - Button definition

Button	Operation	Functions
	Long press 3s	- While in main interface, enter the setting menu; - While in setting interface, back to the main interface.
	Click	- While in main interface, turn on/off USB charging function; - While in setting interface, it is OK and interface switch function; - While in power-on password interface, switch password digits.
	Click	- While in main interface, increase the levels; - While in setting interface, switch options; - While in password interface, increase the password number.
	Long press 3s	- While in main interface on level 0, start walk assistance function(release the button to cancel this function).
	Click	- While in main interface, decrease the levels; - While in setting interface, switch options; - While in password interface, decrease the password number.
	Long press 3s	- Power off when in any interface.
	Click	- While under power-off state, power on; - While in main interface, turn on/off headlight;

Table2- Button functions definition

5. Installation Instruction

Fix the CDC6 display and button on the ebike handlebar, adjust to a suitable view angle, make sure the button is installed in an easy to operate position, tighten the screws, then the installation is finished.



Figure7 - Actual installation images

If need to install the headlight on the lower part of plastic clamping ring, the headlight bracket can be clamped on the lower side but not the higher side.

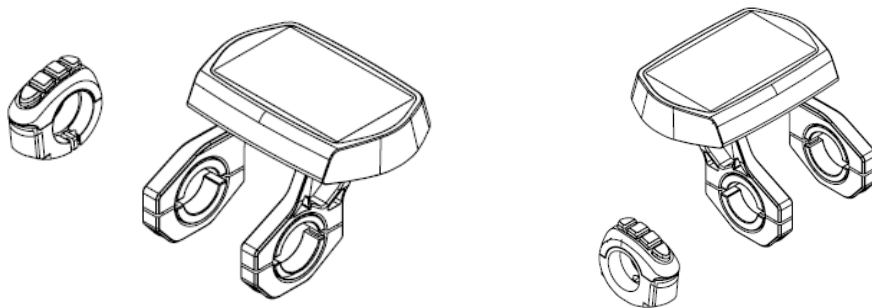


Figure10 - Equiaxial side view

6. Operating Instruction

6.1. Display power on/off

Click  button to power on the display and the display start to work, under power on condition, long press  button for 3s to power off the display. Under power off condition, the display no longer uses the battery power, the display electric leakage current is less than 2μA. Please check following operation process:



Figure8-1 Power on/off operation

6.2. Headlight function on/off

Under power on condition, click  button to turn on the headlight, meanwhile, the headlight icon will appear on the screen. Click  button again will turn off the headlight.



Figure8-2 Headlight ON/OFF operation

6.3. USB charging function on/off

While in the main interface, click  button to turn on the USB charging function, click  button again to turn off the USB charging function. Long press  button to enter setting mode, it can set the wheel speed etc data.



Figure8-3 USB charging ON/OFF operation

6.4. PAS level selection and 6Km/h walk assistance mode

Under power on condition, click  or  button to switch the PAS level and change the motor output power. The display's default output power range is level 0 to level 5. When at level 0, long press  button will enter the 6Km/h walk assistance mode, release  button to cancel this function.



Figure8-4 PAS level switch & walk assistance

6.5. Display main interface

The display main interface will indicate: Real-time speed, Speed unit, Total mileage, Trip mileage, Maximum speed, Average speed, PAS level, Battery capacity, Error codes, motor power(showed as loading bar) information etc modes.

Note: The real-time speed unit is indicated in Km/h and MPH, user can set the speed unit in the

setting menu. The display can only indicate one type of speed unit but neither two together.



Figure8-5 Speed unit



Figure8-6 Total mileage(ODO)



Figure8-7 Trip mileage(TRIP)



Figure8-8 PAS level



Figure8-9 Battery status



Figure8-10 Maximum speed (25Km/h)



Figure8-11 Average speed

6.6. Battery capacity indication

When the battery is fully charged, all five capacity indicators light up. When the battery is voltage shortage, the last battery capacity indicator will flash, and the battery needs to be charged immediately.



Figure8-12 Battery capacity indication

6.7. Error code indication

When there is malfunction on the electronic control system of e-bike, the display will automatically indicates the error codes. The error icon will flash and the electronic control system of e-bike will stop working. The display will exit the error interface only when the malfunction is fixed.(The display won't work properly until malfunction fixed even if the display restarted). Please check attached Error Code Definition Table for the error reasons.



Figure8-13 Report error code

6.8. Motor power indication

During the riding process, the controller will feed the motor power back to the display, so that the display can indicate the motor power in real time. The higher the current value, the greater the motor power.



Figure8-14 Motor power indication

7. General Setting

7.1. Speed unit setting

Under power on condition, long press **M** button for 3s to enter the speed unit setting interface, click  or  button to switch the speed unit(KM/h or MPH). If no operation within 6s, the speed unit setting interface will automatically exit.



1. Under power on condition, long press **M** button for 3s to enter the speed unit setting.
2. Click  or  button to switch the speed unit(KM/h or MPH).

Figure9-1 Speed unit setting interface

7.2. Password input interface of setting menu

After finish the speed unit setting, click **M** button to enter the password input interface of setting menu. Input the default password **1919**. Click **+** button to increase password number or click **-** button to decrease password number, click **⏻** button to switch the digits.

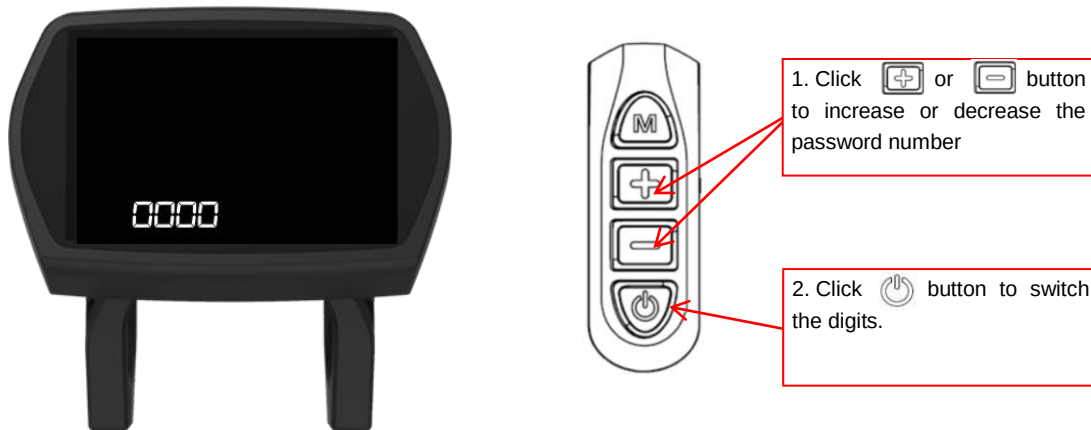


Figure9-2 Password input interface of setting menu

7.3. Wheel diameter setting

When in the password input interface, after entering the correct password, the wheel diameter setting interface will be automatically entered, and the following wheel diameter can be selected.(The indicated wheel diameter is 24" in Figure11-3)

Select the wheel diameter corresponding to the ebike by clicking the **+** or **-** button, so as to ensure the data accuracy of speed/ distance. If no operation within 6s or long press **M** button, the wheel diameter setting interface will automatically exit.



Wheel Diameter	Wheel Perimeter
12"	957 mm
16"	1272 mm
18"	1350 mm
20"	1590 mm
22"	1770 mm
24"	1948 mm
26"	2072 mm
27"	2210 mm
28"	2260 mm
29"	2313 mm

Figure9-3 Wheel diameter setting

Figure9-4 Wheel size table

7.4. Voltage setting

After finish the wheel diameter setting, click **M** button to enter the voltage setting interface, the display can widely match the voltage of 24V/33V/36V/48V/52V. Select the corresponding voltage by clicking **+** or **-** button, if no operation within 6s, the voltage setting interface will automatically exit .



7.5. Version information

Figure9-5 Voltage setting

After finish the voltage setting, click **M** button to enter the version information interface. If no operation within 6s, the version information interface will automatically exit. This display's manual adopts general software version(CDC6 version) from Cloud drive intelligent technology Co.,Ltd. The display software version used in some ebike may be different from this manual, if you find any difference, please contact the manufacturer.



Figure9-6 Version information interface

8. Connectors Definition

CDC6 multi-functional LCD display equip with connection cable, the connector that connected to the button is BM-JHBM-04M, the connector that connected to the controller is BM-JHBM-06G, CDC6 display can widely match the battery of 24V/33V/36V/48V/52V voltage.

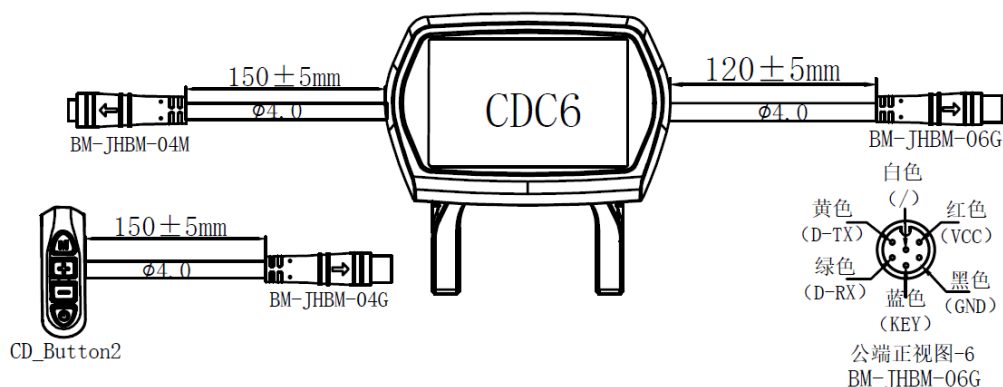


Figure10 Connector definition

9. FAQ

Q: Why power on failed?

A: Check if the display's cables have been reliably connected with the controllers.

Q: How to deal with the indicated error code on display?

A: Firstly, find the corresponding error description according to the indicated error code, if user can't solve it by themselves, please go to the ebike maintenance point and seek for professional maintenance support.

10. Quality Assurance & Warranty Scope

Warranty:

10.1. Within warranty period, our company will shoulder the responsibility to provide limited warranty to any faults caused by the quality of the product under normal use.

12.2. The warranty period lasts for 18 months since the date of production.

Other Terms:

The following items does not belong to warranty scope

12.3. Disassembly or modification without authorization.

12.4. Malfunction or damage caused by the misuse or improper installation and debugging by the users or the third party.

12.5. Products scratched after leaving the factory.

12.6. Cable broken.

12.7. Malfunction or damage caused by the force majored (fire, earthquake etc.) or natural disasters (lightning etc.)

12.8. Beyond warranty period.

Annex.: Error Code Definition Table

Error Code	Definition	Solutions
0	Normal running	
1	Abnormal communication	Blue tooth module is malfunction
2	Controller inner components malfunction error	Power on again, if the error still exists, need to replace the controller.
3	Abnormal 3-phases power	Check if motor cables are loosed, re-connect cables.
4	Battery voltage shortage protection	1. Check the battery indicators if there is power; 2. Reconnect the battery; 3. Remove the battery and measure it by multimeter, to check if there is power in the battery; 4. Recharge the battery.
5	Brake malfunction	1. Don't use the throttle/brake before power on; 2. Please check if the cable connected to throttle /brake is loose, if the connectors connected to display or controller is broken; 3. Replace a new brake.
6	Motor blocking protection	1. Check if the motor is blocked, unable to rotate properly; 2. Check if the motor cables are loose and reconnect the motor cables, and turn the motor again to make it roll smoothly; 3. Replace the motor.
7	Throttle malfunction	1. Don't use the throttle before power on; 2. Please check if the cable connected to throttle is loose, if the connectors connected to display or controller is broken; 3. Replace a new throttle.
8	Controller malfunction	Replace a new controller.
9	Over-voltage protection	1. Check if battery voltage exceeds the display limit; 2. Replace a matching battery.
10/A	Communication malfunction,	1. Check if the cables connected to display are loose, or if the

	yellow cable is not connected	connectors are broken; 2. Check if the cables connected to controller are loose, or if the connectors are broken; 3. Check if the cable jacket is broken; 4. Reconnect the display cables; 5. Replace the controller or display.
13/D	Controller program error or 5V error	Check if the braking signal is 5V short circuit.
15/F/30	Communication malfunction, green cable is not connected, or the communication protocol don't match	1. Check if the cables connected to display are loose, or if the connectors are broken; 2. Check if the cables connected to controller are loose, or if the connectors are broken; 3. Check if the cable jacket is broken; 4. Reconnect the display cables; 5. Replace the controller or display.

Different protocols may cause different error code definition list, please check with the ebike factory.

If there is something wrong with the 5-cores cable between the controller and display:

A. The display can't power on and the screen is dark, the reason might be:

The power supply connector between controller and battery is not connected well or there is something wrong with any one cable of the red /black /blue cables that between the display and controller.

B. The display can power on, but stop working after 3 seconds, the reason might be:

One of the connection cables (green or yellow cable) between the display and the controller is open circuit.

Above error code explanation is based on the correct system from

If you still have queries after reading this manual, please contact us for technical support.

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