

LINGDONG INTELLIGENT TECHNOLOGIES CO, LTD.

SPECIFICATION

Customer Name: Foshan GUANSEN Bicycle Technology Co., Ltd

Product Name: C Pulse 1mini V1.20

Product part number: BOM000504

Product model: C Pulse 1mini

Address: Floor 15th, Building 1B, GuoJiChuangXin Base, ChuangKe RoadNorth of
High-Tech Park, Nanshan iLi District, Shenzhen

Tel: 0755-26000101

Factory seal:

Date: June 20th, 2023

Make	Auditing	Ratify	Quality
Huang Wenting	Ouyang Liangcai	Chen Jian	Fu Yan

Customer signature and seal:

Make	Auditing	Ratify	Quality

Directory

1. Product description	2
● Product name	2
● Product Introduction	2
● Product features	2
● Detailed parameters	3
2. Product size	3
● Appearance dimensions	3
● Screen size	4
● Thickness	4
● Multi angle display	5
3. Definition of outlet	6
4. Combination button description	7
5. Display interface	8
6. Function operation	9
● Turn on/off	9
● Increase/decrease gears	9
● On/off lights	9
● SPEED/MAX/AVG display switching	9
● TRIP TIME/TRIP display switching	10
● Boost mode	10
● General settings menu	10
● Settings menu	10
● Fault items	11

1. Product description



● Product name

C Pulse 1mini

● Product Introduction

The C Pulse 1mini is a 3.5 inch LCD pseudo color center mounted instrument panel that can display vehicle gear, speed, mileage, battery level, and other information. It is commonly used as an external center mounted instrument panel on eBike vehicles.

● Product features

Overall: Smooth and smooth vertical screen design;

Screen: 3.5 inch LCD pseudo color LCD display screen;

Multi screen switching: Use a combination of buttons to switch between multiple screens;

● Detailed parameters

Model	C Pulse 1mini
Main chip	BlueNRG-1
Supply voltage	20V-80V
Screen size	49mm×74mm
Appearance size	62mm×97mm×16mm
Waterproof grade	IPX6
Screen material	LCD
working temperature	-20°C — +70°C
Suitable for handle diameter	22mm、25mm、31.8mm

2. Product size

● Appearance dimensions



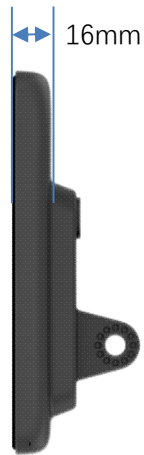
Length: 62mm; Width: 97mm

- **Screen size**



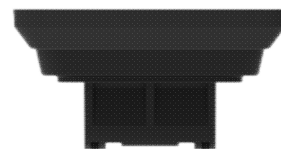
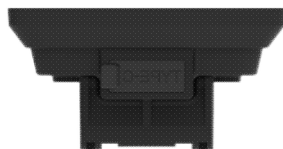
Length: 49mm; Width: 74mm

- **Thickness**

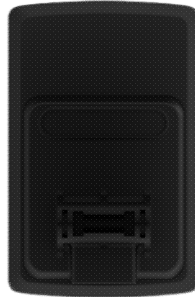


Thickness: 16mm

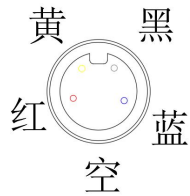
- Multi angle display



3. Definition of outlet

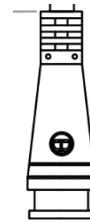


Combination button line



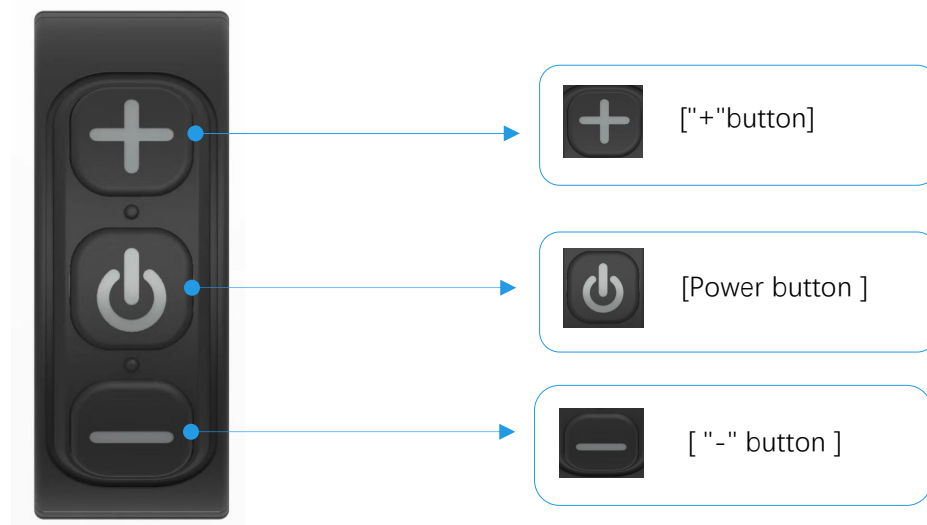
- Black** GND
- Green** Extended Function Line
- Red** On/Off
- Blue** Upshift
- Yellow** Downshift

Controller interface cable



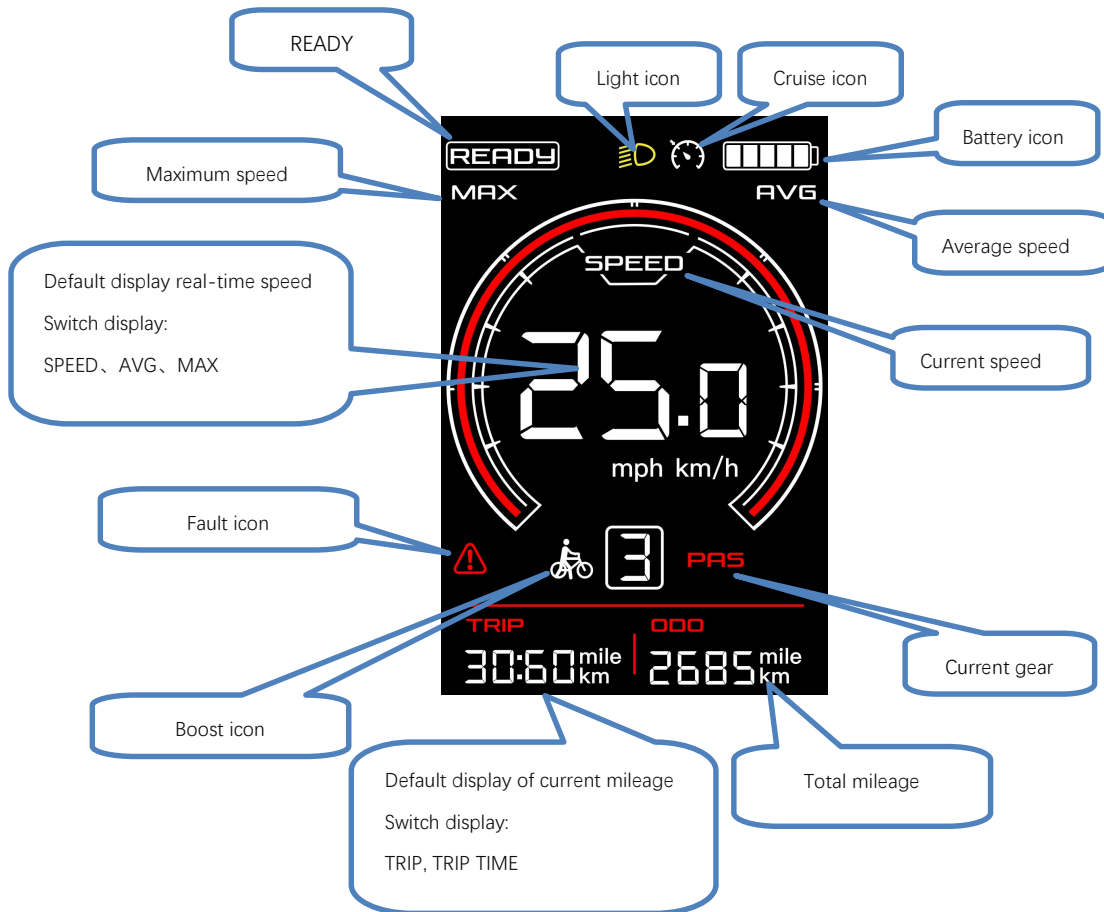
- Black** GND
- Yellow** BLE_TX
- Green** BLE_RX
- Blue** DS
- Red** VBAT+

4. Combination button description



Button Name	Function
【 Power button 】	<ol style="list-style-type: none"> 1. Press and hold the power button for 3 seconds to turn on and off. 2. Press the power button once to switch the display in turn: current speed SPEED, maximum speed MAX, and average speed AVG. 3. Press the power button twice to switch the display in turn: single mileage TRIP and single mileage time TRIP TIME.
["+" button]	<ol style="list-style-type: none"> 1. Press the "+" button briefly to perform an upshift operation. 2. Press and hold the "+" button to turn on and off the light.
【 "-" button 】	<ol style="list-style-type: none"> 1. Press the "-" button briefly to downshift. 2. Long press the "-" button to enter booster, then long press the "-" button or pinch the brake to exit booster.

5. Display interface



Introduction to dial values	Current speed, average speed AVG, maximum speed MAX
Switch display in the left	TRIP and TRIP TIME of this trip
Switch display in the right	Total mileage ODO
Speed display	Display the corresponding speed value, km/h km/h, mph Miles per hour
Mileage display	Display the corresponding mileage value in metric kilometers and English miles
Cycling time display	Display cycling time, 00:00, unit: 1min
Battery display	5-segment power indicator, which can set voltage values for each segment according to demand
Light icon	Displayed when the vehicle's headlights are turned on

Cruise icon	Displayed when the vehicle enters cruising
Fault icon	When a vehicle malfunction is detected, the display icon flashes
Boost icon	Displayed when the vehicle enters the booster
Gear shift	0-3PAS, switch back and forth by combining the buttons "+" and "-"
Maximum speed	MAX represents the maximum speed in kilometers per mile or mph, in 0.1 units
Average velocity	AVG represents the average speed in kilometers per mile or mph, in 0.1 units
Real time speed	SPEED represents real-time speed, expressed in km/h or mph in metric miles, in 0.1 units
This mileage	TRIP represents the current mileage, in kilometers or miles, in 0.1 units
Time of this ride	TRIP TIME indicates the time of the current ride, in 1min
Total mileage	ODO represents cumulative mileage, in kilometers or miles in metric miles, in units of 1

6. Function operation

● Turn on/off

Press and hold the power button for 3 seconds to turn on and off the machine.

● Increase/decrease gears

Click the "+" button to add one level. Click the "-" button to downshift by one gear.

● On/off lights

Long press the "+" button to turn on and off the light.

● SPEED/MAX/AVG display switching

Press the 【 Power button 】 to switch the display in turn, and the default display is SPEED (real-time speed), MAX (maximum cycling speed), and AVG (average speed).

● TRIP TIME/TRIP display switching

Press the power button twice to switch the display in turn, and the default display is TRIP (Single Mileage) and TRIP TIME (Single Ride Time).

● Boost mode

Long press the "-" button to enter the booster, release it to exit the booster.

● General settings menu

Press and hold the "+" and "-" buttons simultaneously to enter the general settings menu.

- ① Switch settings options: Enter the settings menu page and click the [Power button] to switch between different settings options.
- ② Switch setting item parameters: Enter the setting item and click the "+" button or "-" button to switch setting item parameters.
- ③ Cancel/Return to Previous Level: Press the power button twice to cancel or return to the previous level.
- ④ Return to the main page: Press and hold the "+" and "-" buttons simultaneously to return to the main page. Stay on the page without any action, and after 8 seconds, automatically exit the setting menu and return to the main page.
- ⑤ Enter more settings: After entering the general settings menu, continuously press the [Power button] 5 times to enter more settings.

● Settings menu

- ① P01 (Public Miles Switching)
Switch between km/h and mph, default to km/h.
- ② P02 (brightness adjustment)
1-2-3 gear adjustment, default to 3rd gear.
- ③ P03 (Sleep time)
0-60min adjustment, 0 means no shutdown, unit: 1min, default: 5min.
- ④ P04 (speed limit)
The speed limit is set between 10-41km/h, with a unit of 1km/h and a default of 41km/h (41 without speed limit).
- ⑤ P05 (Factory reset)
One key can be used to Factory reset (long press+key 5S, 00-01, the instrument will automatically shut down after 3s).
- ⑥ More settings
Wheel Diameter: set between 16-28 inches, unit 1 inch, default 27.5 inches.
Voltage: 36V, 48V, 60V default to 48V.

Speed Magneto: set between 1 and 15, default to 6.

6 km boost function: 0, off; 1. Open, default open: 1.

Clear ODO: (Press and hold the+button for 5S, 00-01, and the instrument panel will automatically shut down after 3S).

● Fault items

Fault Code	Fault Items	Fault Illustrate
E21	Abnormal current	Check the controller
E22	Abnormal accelerator	Check the accelerator
E23	Motor phase loss	Check the motor
E24	Abnormal motor Hall	Check the motor hall
E25	Abnormal braking	Check the brakes