

ANANDA

USERS GUIDE

D10 PC5/ D10 PU5

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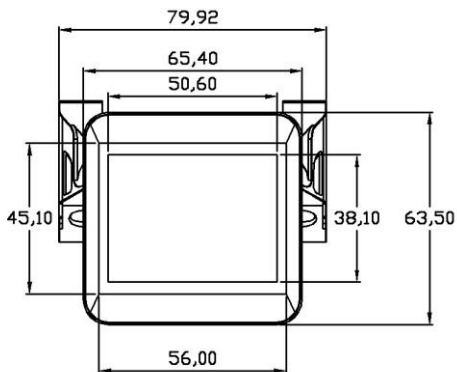
1. Preface

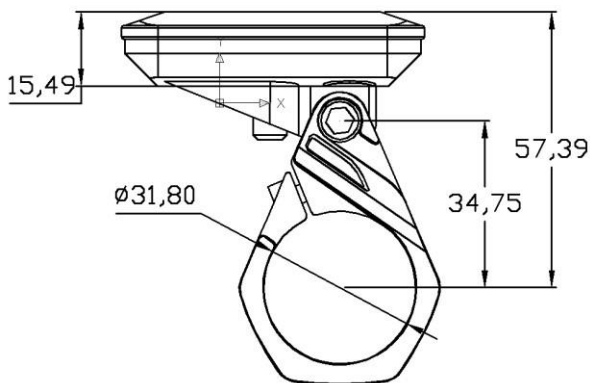
Dear Customer, we ask you please kindly study this manual for D10 PC5/ D10 PU5 to use your electric bike better. We will try to present you necessary information including installation, setting and normal use in most clear words, and hope it helps to clear your possible confusion or problems.

2. Dimension&Materials

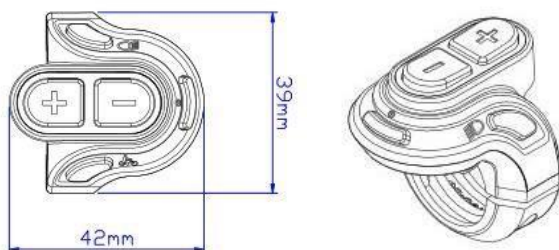
D10 PC5/ D10 PU5 display includes screen and control buttons, Screen is a combined set including metal holder and glass plate. Cover of the display is applicable for ambient temperatures ranges between -20°C and 60°C while keeps excellent mechanical property. It meets with the waterproof level of IP65.

Dimension (mm)








Screen of D10 PC5



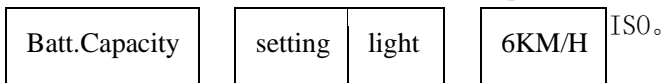
Control Button of D10 PC5

D10 PC5/ D10 PU5 Control buttons kit is connected to the bottom of the display. Here we will describe the symbol  as switch, + as PLUS, — as Minus,  as lighting,  as walk assistance.

3. Functions

(1) D10 PC5/ D10 PU5 shows below information:

- ◆Battery real time capacity
- ◆Speed (Real time speed、AVG speed、Max speed)
- ◆ODO (Trip and total mileage)
- ◆Trip time
- ◆Assistance level
- ◆Lighting status: ON/OFF
- ◆6km/h assistance status: ON/OFF
- ◆Error code
- ◆Settings include: Background light、speed limit、Unit、



- ◆Software Version
- ◆Battery information
- ◆At riding, after shifting among AVG, MAX, TRIP, TIME,

Speed

 it goes back to ODO;
- ◆At static status, it will not go back to ODO interface after shifting among AVV,MAX, TRIP, TIMEO.

(2) D10 PC5/ D10 PU5 background light automatically adjusts according to ambient brightness. (3) D10 PC5/ D10 PU5 meets with the EN15194: 2017 standard.

4. Screen

Error code

Speed unit

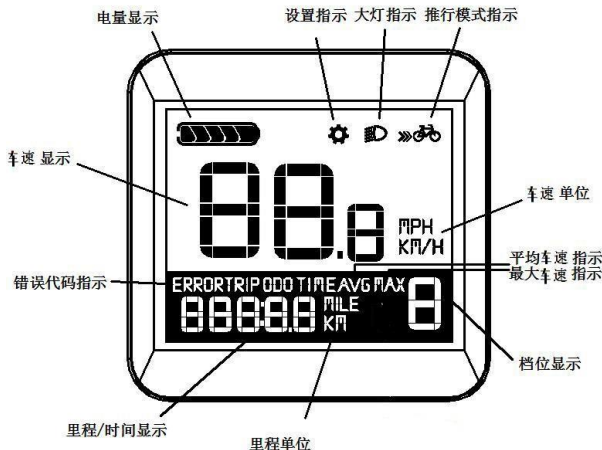
Range/time

Range unit

UI of

AVG SPEED
MAX SPEED

Asst.level



the

Display

5. Warning

Please be careful to use the display safely, Do

not disconnect it when power is on; Avoid knock or crash.

Have it repaired if not working properly.

6. Installation

D10 is a LCD display, please fix it around the handle bar, Then connect it with controller and control button.

7. Operations

7.1 ON/OFF

- ◆ Press battery Power On button for activation if battery is off, then display is turned on.

◆Hold on display ON/OFF button for 2.5s if battery is on, display is turned off. Short press for turning on if display is off.

◆If battery is on, hold on battery ON/OFF button to turn off battery, system is closed; However, if press the ON/OFF button 3s later, display is restarted. ◆If system is on, but stay unused for 10 minutes, display goes to sleep mode, current @ sleep mode is below 100ua.

◆If system is on, but stay unused after 60 minutes, battery is turned off automatically to close the system. However, Display could be waked up after 3 seconds by pressing battery ON/OFF button.

7.2 Speed/ODO/Time

Preset screen information includes real time speed, ODO, Short press on/off for shift among real time speed, OD, →AVG speed, Trip→Max Speed, trip time.

Hold on minus button for 3S at the interface of AVG speed, Trip will clear AVE Speed, Trip, Max Speed and Trip time.◦

Hold on minus button at the interface of Max speed, Trip time will clear AVG speed, Trip, Max speed and trip time.

Clearing is not available at the interface of real speed, ODO.



Real time speed, ODO AVG speed, Trip



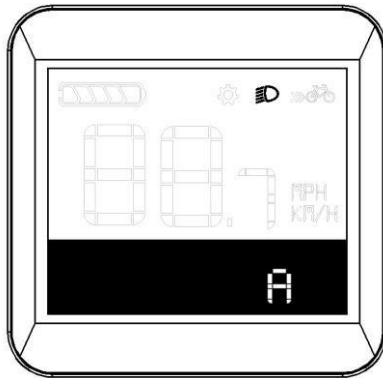
Max speed, Trip time

7.3 Lighting

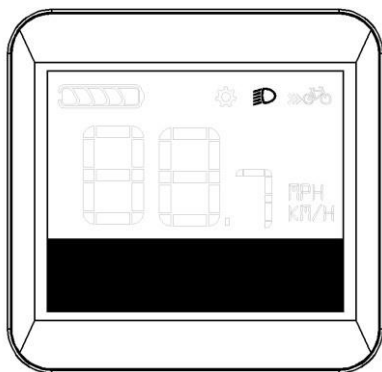
◆AUTO-Mode: Display automatically switch on/off light by sensor according to environment; under such circumstance, short press LIGHTING button is not valid for light ON or Off. Default set for display lighting is Automode. 。

◆Manual Mode: Short press Light button at manual 仅在 mode to activate lighting; Short press again to cancel lighting function.

Shift between Auto/Manual Mode: Press and Hold on lighting button for more than 2s for shift (Default set when display turned on is auto-mode, for which letter " A " is showed in the screen, which is turned off when shifted to manual mode..



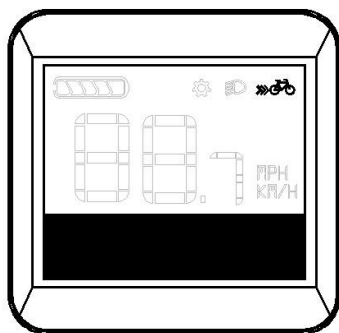
Auto-mode interface



Manual Mode Interface

7.4 6km/h assistance

Press and Hold on assistance button to active 6km/h assistance function, ebike runs at a stable speed of 6km/h; Release the button will cancel the function.



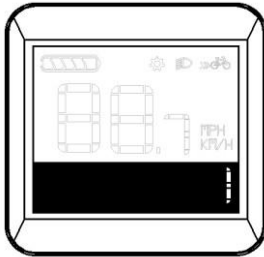
6km/h assistance interface

7.5 Assistance level adjustment

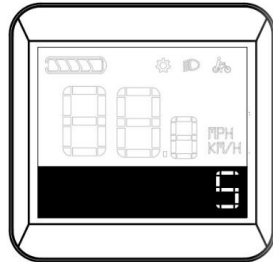
Short press PLUS or Minus button for shift of assistance level which changes output of motor. Default set for assistance has 5 levels, of which 1st level is for the lowest output, 5th is for the highest output.

Default set is the 1st level.

Assistance level is adjustable among at 0->1->2->3->4->5->4->3->2->1->0 at any interface excluding setting interface.



1st level



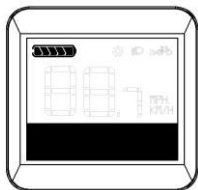
5th level

7.6 Battery capacity

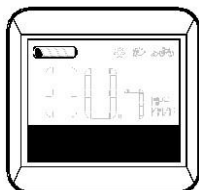
All 5 indicating lights on if battery is fully charged; If capacity indication shifts between light blinks and empty symbol, battery is under-voltage, needs to be recharged. Battery capacity indication may vary compared to below chart.

Capacity information

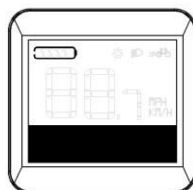
15%—29% First Segment
 30%—44% Second Segment
 45%—59% Third segment
 60%—84% Fourth Segment
 >=85% Fifth Segment



Full capacity



Low capacity



Under-voltage

7.7 Background light adjustment

◆Background light varies automatically according to environmental lightness by integrated sensor at Auto-Mode. Eg: Background light decreases if environment darks down; increases if environment brightens up, so riding information is easily available..

◆Light on/off , If lighting is manually turned on, display background light darks down; Conversely, brightens up if lighting is manually turned off.

7.8 Error Code

Display shows corresponding code if ECU has a problem. Ebike shall not be put into use until the error code is cleared .



Error code interface

Definition:

(1) CANBUS common error code definition:

Code	Definition
01	Phase current failure
02	Controller busbar overloaded
03	Controller hall failure
04	Brake/Throttle failure
05	Controller Temp. Failure
06	Motor Temp. Failure
07	Overloaded Failure
08	Controller communication failure
09	Controller over or under voltage
10	Other failure
30	Display communication failure

CANBUS New Norm error code:

Code	Definition
31	MCB failure: Base voltage failure, Calculation cycle failure
32	TE communication failure
33	3.3V power failure
34	Buttons failure
35	Button failure
36	Torque unit voltage failure
37	Brake failure, speed sensor failure, Inspection Hall failure
38	Temperature sensor failure
39	Base sampling overdue
40	Current feedback circuit failure
41	Drive voltage failure
42	Abnormal current
43	Motor phase loss, overtime for start
50	Torque unit voltage inspection circuit failure

(2) UART common code definition:

code	definition	solution
21	Abnormal current	check if 3 phase short bridged.
22	Throttle failure	check if throttle recovered to original status
23	Phase loss	check if well ,cabled , check if phase wire well connected to controller.
24	Hall failure	check hall sensor well cabled.
25	Abnormal brake	Check brake recovered before system on
30	Communication failure	Check display well connected to controller
31	Button stuck	Check buttons stuck or not before system on
32	Power supply failure	Check power source 13V/3.3V
34	6KM button failure	Check assistance button stuck or not

8. Display EXW settings

8.1 Setting interface:

Hold on Plus and Minus buttons at main interface when speed is 0 to enter setting mode interface. Short press Plus button to shift among background light, speed limit, unit, background light. Right corner position “1” means common setting.



Background light



Unit

Press and hold on both Plus and Minus buttons for 2s for password input (Defaulted as 6262) for hidden setting interface, short press Plus to shift among Battery information, Version, ISO, Battery information. Right corner position “2” means hidden setting.



Battery information



Version



ISO

Short press Plus or Minus when input password will change the password. Short press ON/OFF button to shift among digits..

Short press ON/OFF button at the fourth digit will save the new password.

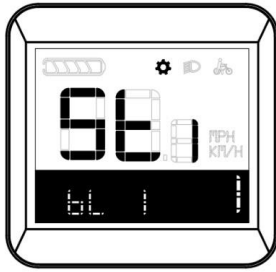


Password input interface

8.2 Background light

Short press Plus button at setting interface for shift to background Light setting.

BL Means background lightness, Right corner position " 1 " means common setting. There are 3 levels for lightness, 1st level for the darkest setting, 2nd level for standard setting, 3rd level for the brightest. Default setting is 1. Short press ON/OFF button to choose BL setting interface, then short press Plus or Minus for increase or decrease background lightnes. Short press ON/OFF again to save and quit.◦



BL setting Interface

8.3 Speed Limit

Short press Plus button at setting interface for shift to speed limit setting.

Speed limit setting decides the Max.Speed, upon which controller will cut off motor output to ensure rider's safety, Speed limit ranges from 12km/h to 25km/h. Default set for speed limit is 25km/h for the display. Short press ON/FF to choose speed limit setting interface; short press plus or minus to increase or decrease speed limit; Then short press ON/OFF button to save and quit.



Speed limit adjustment interface 8.4

Unit setting

Short press plus button at setting interface for shift to unit setting interface.

Unit setting is valid to set display speed and mileage unit, right corner position "1" means common setting, defaulted unit is KM. Short press ON/FF button to choose unit setting interface. Short press Plus or Minus to shift between KM/H and MPH; short press ON/OFF again to save and quit.



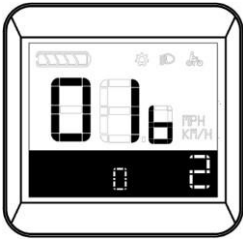
Unit setting interface

8.5 Battery information

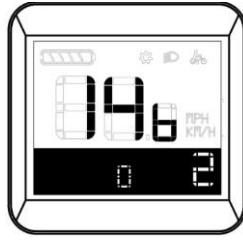
Short press Plus for shift to battery information after hidden setting mode activated.

Right corner positioned "2" means hidden setting.

Batter information is showed by code, which is available by short pressing ON/OFF button, short press Plus button to see each in sequence, while short press Minus button to see each in reversed sequence. Short press ON/OFF to quit. Battery information may vary according to different battery.。



Battery Information Code 1



Battery information Code 14

8.6 Version Number

Short press Plus button at hidden setting interface for shift to version setting interface.

Right corner positioned “2” means hidden setting.



Software version interface

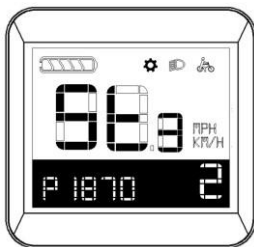
8.7 ISO setting

Short press Plus for shift to ISO setting interface after hidden setting mode is activated.

Right corner positioned “2” means hidden setting

P means threshold of ISO, which is adjustable to suit sensitiveness of Auto-mode lighting to environment, The bigger the value is, the lesser sensitive it is. Meaning more weak light is detected to

switch on lighting. The threshold is adjusted by short pressing plus or minus button. Short press ON/OFF again to save and quit.



ISO setting interface

8.8 Save & Quit:

1. After setting finished, Press and hold on ON/OFF for more than 2s for shift to main interface.
2. Display automatically jump to main interface from Setting interface if no operation detected within 60s.