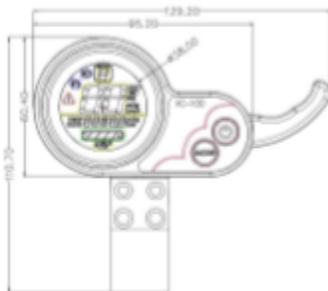


**XC-100 Manual Control Panel Instructions**  
**(For Cruise V2)**  
**2020 Latest Version**

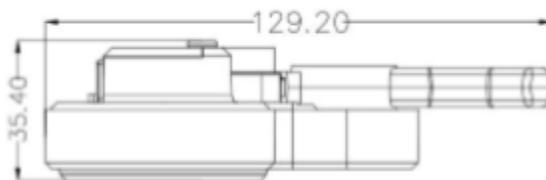


**1. Appearance size and material**

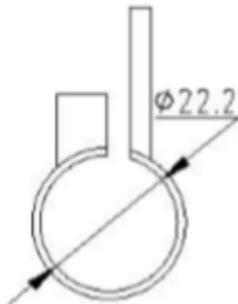
The shell of the product is ABS, and the transparent window of the liquid crystal is imported high hardness acrylic.



*Front view*



*side view*



*XC-100 stand*

## 2. Working voltage and wiring method

a. Working voltage: DC24V / 36V / 48V compatible (meter selection setting), other voltages can be customized.

b. Wiring method:

### CONNECTOR WIRE HALL



Connection with the controller

Meter Outlet

Female Terminal

Table: Standard Connection Cable

Standard wiring sequence	Standard Wiring Color	Function
1	Red(VCC)	Meter Power Cable
2	Blue(K)	Controller power cable
3	Black(GND)	Meter ground
4	Green(RX)	Wire meter data receiver
5	Yellow(TX)	Wire meter data sender

Note: The leads of some products use waterproof connectors, and users cannot see the color of the leads in the harness.

Function description:

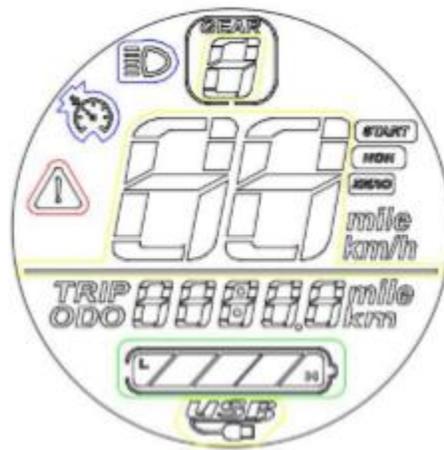
### 3. Features:

- Display function
  - Speed display*
  - Battery indicator*
  - Fault indication*
  - Total mileage*
  - Single mileage*
- Control setting function
  - Power switch control*
  - Wheel diameter setting*

- Idle auto sleep time setting
- Backlight brightness setting
- Start-up mode setting
- Driving mode setting
- Voltage level setting
- Controller current limit value setting
- USB charging function

- Communication protocol: the entire content of the UART display (full display within 1S after booting)

**Display content introduction**



- Voltage status level POWER



- Multifunctional display area



Fault code	Fault status	Remark
E21	Abnormal current	
E22	Turn exception	
E23	Motor phase loss	
E24	Motor Hall signal abnormal	
E25	Abnormal braking	
E26	Temperature protection	
E27	Stall protection	
E28	Under voltage protection	
E29	Overvoltage protection	
E30	Communication error	

**Total mileage ODO, single mileage TRIP, digital voltage display VOL, fault code ERR**



- Speed display area  
Unit MPH, KM / H  
The speed signal is taken from the Hall signal in the motor and sent to the meter by the controller. (The time of a single Hall cycle, unit: 1MS) The meter will calculate according to the wheel diameter and signal data (the motor steel also needs to set the number of magnetic steel) Out of real speed.
- Vehicle power-assisted gear adjustment
- Vehicle status display area.



0-9 gear digital display



: Zero start and non-zero start prompts



: Tips for turning on the headlights



: Constant speed Cruise tips



: Communication failure notice



: USB charging tips

- **P Settings**

P01: brightness of backlight, level 1 is the darkest, level 3 is the brightest

P02: mileage unit: 0= KM; 1= MILE

P03: Voltage level: 24V, 36V, 48V, default 48V

P04: Sleep time: 0, sleep off; other numbers are sleep time, range: 1-60 (unit minute)

P05: Power-up gear: 0= 3 gear mode; 1= 5 gear mode

P06: Wheel diameter: unit= inch; accuracy: 0-16; 1-18; 2-20; 3-22; 4-24; 5-26; 6-700C; 7-28

P07: Number of speed measuring magnets: range: 1-15

P08: Speed limit: range 10-41km/h

P09: kick assist: 0 = zero start; 1 = non-zero start

P10: Setting of driving mode (not implemented here)

0: Booster drive (determining how much booster power is output through the booster position, the handle is invalid at this time)

1: Electric drive (driven by the handlebar, the assist position is invalid at this time)

2: Power assist and electric drive coexist.

P11: Boost sensitivity setting: 1-24

P12: Boost start intensity setting: 0-3;

P13: Typesetting of power-assisted magnetic steel discs: four types of 5, 6, 8, and 12 magnetic steels

P14: Controller current limit value setting Default 12A Range: 1-20A

P15: Controller under voltage value: 44, ± 5V adjustment range

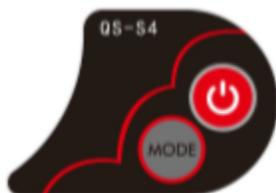
P17: 0= disable cruise, 1= enable cruise; auto cruise is optional (not implemented here)

P18: Display speed ratio adjustment Range: 50% ~ 150%

P19: 0 position enable bit, 0= including 0 position, 1= not including 0 position

P20: 0: 2 protocol 1= 5S protocol 2= J-LCD protocol 3= standby

### Keys and interface introduction:



1. In the off state, press and hold  Key to boot; after booting, short press  Key, the interface switches between ODO, TRIP, VOL.

2. In the power on state, long press  Key to shut down, short press the MODE key to switch the gear in the GEAR zone.
3. Press  +  Press the key to enter the menu setting interface. On the P01 interface, short press  Key to switch menu go to P02, short press  Key to change the current digit value
- 3.1. Enter the menu setting interface. In any menu state, short press  Key to switch the menu, short press or press  Key to increase or decrease the value (long press  Press the key to change the value addition and subtraction direction, "A" is displayed on the left indicates increasing the value, "d" is displayed on the left to decrease the value), after modification, short press  Key switch go to the next parameter and save the value of the previous parameter; press and hold again after the parameter is modified  +  Key to exit the setting interface, or wait for 8 seconds to automatically exit and save the parameters.
4. The crank adjusts the speed of the motor and the speed of the motor increases when it is turned from top to bottom; let go and return to zero.

\*Note: Due to the upgrade of the company's products, the display content of the part of the product you receive may be the same as the manual, The difference, but will not affect your normal use.