

LCD S830 Manual Control Panel

User Manual

The Latest Version 2014

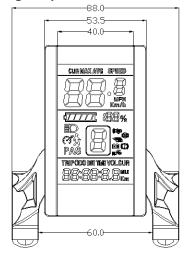


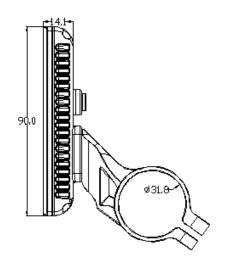
1. Exterior Parameters

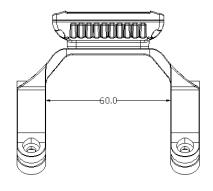
Casing Material: ABS

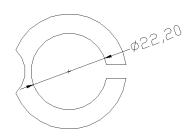
Display Material: High Hardness Acrylic (the same hardness value as

tempered glass).



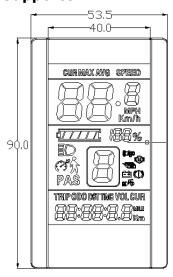


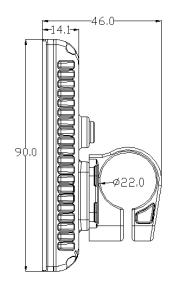




Optional: Converter Ring φ 22.2mm / 25.4mm / 28.6mm

2. Single Supporter





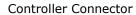
2. Operating Voltage and Connections

a. Operating Voltage: DC24V / 36V Compatible, 36/48V Compatible (set by the control panel). Other operating voltage can be customized.

b. Connections:

Standard connector sequence







Panel Outlet Terminal



Wire Connector

Standard Connector Sequence Table

Sequence No.	Wire Colour	Functions
1	Red (VCC)	Panel Power Cord
2	Blue (K)	Controller Power Cord
3	Black (GND)	Panel Ground Wire

4	Green (RX)	Panel Data Receiving Wire
5	Yellow (TX)	Panel Data Sending Wire

Extended Functions

Light: Brown (DD): The positive electrode of the light

White (GND): The negative electrode of the light.

The wire colours of the PWM Voltage Motor Power Controller and the independent speed sensor will be defined otherwise.

Note: Some products are equipped with waterproof connectors, whose internal wire colors cannot be determined from outside.

3. Functions

a. Display

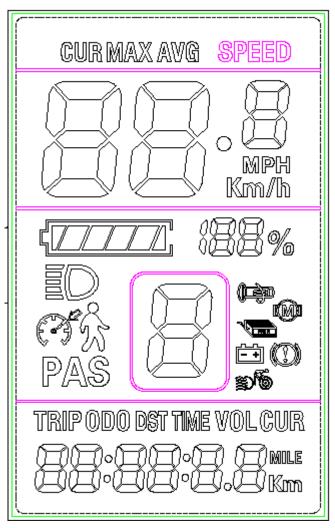
Speed Display, Motor Power Ratio Display, Battery Level Display, Error Indication, Total Mileage, Single Mileage, Single Running Time Light Signal

b. Control and Settings

Power Switch, Front Light Control, 6km/h Inching Control, Wheel Diameter Setting, Top Speed Setting, Idleness Time Setting for Auto-Hibernation, Backlight Brightness Setting, Voltage Level Setting

c. Communications Protocol: UART

Display Readings (display at start for 1 second)



Display Details

3. 1 Light





3.2 Battery Level

TRIP ODO DST TIME VOLCUR



3.3 Multi-Functions Display

Total Mileage: ODO Single Mileage: TRIP

Single Running Time: Time

Current Voltage VOL
Operating Current: CUR

DST: Unspecified



3.4 Vehicle Power Gear PAS

Gear 0-9 adjustable;

Normally 3 / 5 / 9-gear mode available.



3. 5 Speed Display

Maximum Speed: MAX Average Speed: AVG

Measuring Unit: MPH or KM/H

The panel will calculate the actual travelling speed based on the wheel diameter and signal data (number of magnet steel is needed for Hall motors).

3.6 Vehicle Status

6km/h Walk and Push

6km/n waik and Push

Powered Ride:

Brake Signal

Motor Failure

Real-Time Cruise



Low Battery



Controller Failure



Handlebar Failure

3.7 Settings

P01: Backlight Brightness (1: darkest; 3: brightest)

P02: Mileage Unit (0: KM; 1: MILE)

P03: Voltage Class: 24V (default) /36V / 48V

P04: Hibernation Time (0: never, other figures refer to the hibernation time)

Unit: minute

P05: Power Gear - 0/3 Gear Mode: Gear 1: 2V Gear 2: 3V Gear 3: 4V

1/5 Gear Mode: Gear 1: 2V Gear 2: 2.5V Gear 3: 4V

Gear 4: 3.5V Gear 5: 4V

P06: Wheel Diameter Unit: inch Precision: 0.1

P07: Magnet Steel Number for Speed Test Range: 1-100

P08: Speed Limit

Range: 0-50km/h, parameter 50 indicates no speed limit.

1. Non-communications status (panel-controlled)

When the current speed exceeds the speed limit, the PWM output will be shut down; when the current speed falls to lower than the speed limit, the PWM output will be activated and the driving speed will be set as the current speed ± 1 km/h (only applies to assist power speed, not applicable to the handlebar speed).

2. Communications status (controller-controlled)

The driving speed will be kept constant as the limited value.

Error Value: ± 1 km/h (applicable to both the assist power/handlebar speed)

Note: The above-mentioned values are measured by metric unit (kilometers). When the measuring unit is switched to imperial unit (mile), the speed value displayed on the panel will be automatically switched to corresponding imperial unit, however the speed limit value in the imperial unit interface won't change accordingly.

P09: Zero / Non-zero Start Setting:

0: Zero Start

1: Non-zero Start

P10: Drive Mode Setting

- 0: Power Drive The specific gear of the assist drive decides the assist power value. In this status the handlebar does not work.
- 1: Electric Drive The vehicle is driven by the handlebar. In this status the power gear does not work.
- 2: Power Drive + Electric Drive Electric drive does not work in zero-start status.
- P12: Assist Power Intensity Range: 0-5
- P13: Power Magnet Steel Number: 5 / 8 / 12pcs
- P14: Current Limit Value: 12A by default; Range: 1-20A
- P15: Unspecified
- P16: ODO Zero-Out: Long press the upper key for 5 seconds and ODO will zero out.

4. Keys

Arrangement of keys on the panel:



Introduction of Keys

Key operations involve short press, long press and long press of combination keys.

Short press is used for short/frequent operations as:





to change assist

1. Short press the two keys power/speed during riding.

display section.



to switch the readings in the multi-function

Long press on a single key is used to switch mode/on/off status.

Long press on combination keys to set parameters, which can avoid misoperations (short press on combination keys is disabled, for it's easy to induce misoperation and hard to manipulate).

Detailed Instructions

1. Change Assist Power/ Electric Gear

In assist power mode





assist power +1.



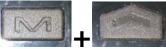


assist power -1.

2. Switch Speed Display



mode.



to switch speed display type.

3. Enable / Disable 6km/h cruise, set real-time cruise and turn on/off the lights

When the vehicle is parked, long press



to enter 6km/h cruise mode.

When the vehicle is travelling, long press



to enter real-time cruise

Long press to exit the cruise mode when the vehicle is in cruise mode.





to turn on/off the lights.

4. Turn on/off the LCD Panel



When the display panel is operating, long press off, otherwise it will be turned on.

and it will be turned

5. Switch Displayed Readings in Multi-Functions Section





to switch readings shown in the multi-functions section.

6. Set Parameters







to enter the setting interface.

Customizable parameters include:

Wheel Diameter (unit: inch);

Magnet Steel Number;

Backlight Brightness;

Low Voltage Threshold (refer to setting: P01-P14)

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