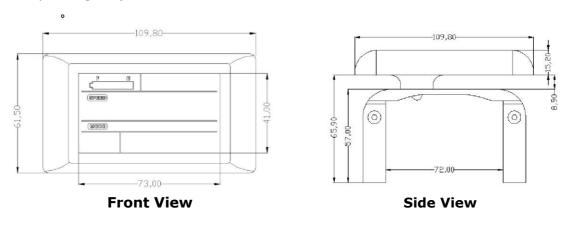
LCD S900 User Manual

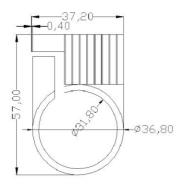
The Latest Version 2014

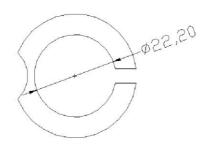


1. Exterior Parameters Casing Material: ABS

Display Material: High Hardness Acrylic (the same hardness value as tempered glass).







Side View of the Support Stand

Optional: Converter Ring φ 22.2mm /25.4mm

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:

A. Standard Cabling Connection



Standard Connector Sequence Table

Sequence No.	Wire Colour	Functions
1	Brown (VCC)	Display Power Cable
2	Green (RX)	Data Receiving Cable
3	Black (GND)	Display Ground Cable
4	Orange (K)	Power Control Cable
5	White (TX)	Data Sending Cable

The extended cable will be waterproof type, whose color cannot be seen from exterior.

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

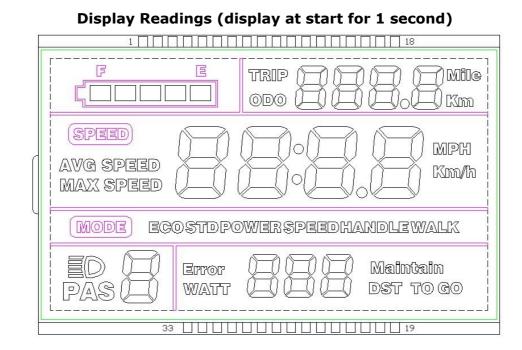
a. Display

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

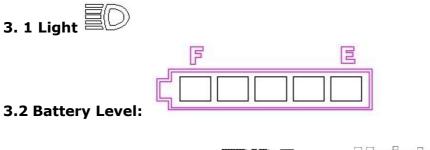
b. Control and Settings

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 Details



TRIP Error Maintain

3.3 Multi-Functions Display ODO WATT DST TO GO

Total Mileage: ODO Single Mileage: TRIP Error Code: Error Power: WATT Maintenance: Maintain DST TO GO: Unspecified

3.4 Vehicle Mode

MODE) EGOSTDPOWERSPEEDHANDLEWALK

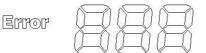
ECO: Economical Mode STD: Standard Mode POWER: Intensified Mode SPEEDHANDLE: Handle-controlled Speed Mode WALK: Walk and Push Mode



3. 5 Speed Display

Current Speed: CUR 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

Error code and indication

Error Code (decimal)	Indications	Note
0x01	Normal condition	LED lighting
0x02	Brake problem(electromagnetism)	Check brake lever
0x03	Brake problem(power off)	Check brake lever
0x04	Throttle is not Initialization	Check the throttle
0x05	Throttle is damaged	Change the throttle
0x06	Battery low-voltage protection	Check the battery voltage and capacity
0x07	Battery high-voltage protection	Change the battery
0x08	Hall sensor problem	Check the hall sensor
0x09	Motor phase line problem	Change the motor
0x10	Controller Temperature protection	After cooling, motor will work again
0x11	Controller Temperature sensor problem	The motor can still work, better to repair controller
0x12	Current sensor problem	Change the motor
0x13	The temperature of the battery is problem	Check the battery
0x14	Motor temperature problem	Motor can still work, better to repair motor
0x21	Speed sensor problem	Check the speed sensor
0x22	BMS problem	Check BMS
0x23	Lighting problem	Check light
0x24	Lighting sensor problem	Check light
0x30	Communication problem	Change the display





Power Status (Gear 0-9)



8. Settings

P01: Backlight Brightness (1: darkest; 3: brightest)
P02: Mileage Unit (0: KM; 1: MILE)
P03: Voltage Class: 24V (default) /36V / 48V
O4: 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: 0.1P07: Magnet Steel Number for Speed Test Range: 1-100P08: 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: ±1km/h (applicable to both the assist power/handlebar speed)

Note:

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:

c. Zero Start

d. Non-zero Start P10:

Drive Mode Setting

3.4 Power Drive – The specific gear of the assist drive decides the assist power value. In this status the handlebar does not work.

3.5 Electric Drive – The vehicle is driven by the handlebar. In this status the power gear does not work.

3.6 Power Drive + Electric Drive – Electric drive does not work in zerostart

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:

1. Short press the two keys





to switch the readings in the multi-function

to change assist

display section.

2. Short press this key

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.

b. Short press



assist power -1.

2. Switch Speed Display

Long press

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 mode.

Long press

ss ______ 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

and it will be turned

off, otherwise it will be turned on.

When the display panel is operating, long press

5. Switch Displayed Readings in Multi-Functions Section



to switch readings shown in the multi-functions section.

6. Set Parameters



Short press





o enter the setting interface.

Customizable parameters include:

Wheel Diameter (unit: inch);

Magnet Steel Number;

Backlight Brightness;

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

In the setting interface, short press



to add/minus

value to the parameter, which will blink after modified. After selecting the parameter that needs to be set,

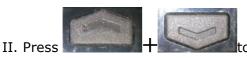


I. a. Long press **to** save the current value, and the parameter will stop blinking;



b. Short press **Short** to switch to the next parameter and the previously

set value will be saved at the same time.



to exit the setting and save the parameters.

Without this operation, the system will automatically exit and save the modified parameters after 10 seconds.

Note: Due to product upgrade, the product you purchased may be slightly different from the descriptions in this user manual, and this won't affect normal usage.