

VLCD13 Display Operation Manual



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Summary

The VLCD13 display is especially designed for electric bicycle. It is mainly used to control the pedal assist level. It can also show the energy of battery, measure the speed of electric bicycle, and record the trip distance.

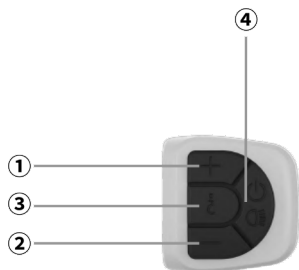
Specifications	
Type	VLCD
Working Voltage	DC 24-48V
Max Working Current	20ma 24V 10ma 48V
Display Type	320 x 480 LCD
Working Temperature	0°F - 110°F
Outline Dimension	89.9mm x 59.8mm x 18.2mm (display only)

Installation

The display mounts to the handlebars or an accessory mount. The maximum diameter of the mounting surface is 31.8mm. Do not overextend the split clamp of the mounting bracket.

Functions and Operations

Key Definitions



① Power Assist **+** Button

Raises assist level

② Power Assist **-** Button

Lower assist level

③ Mode Button **i**



Used to toggle settings

④ Power Button **⏻**

Used to power the system on and off

Display Functions and Operations

Power On/Off

Press the  button to power on the LCD display. Long press the  button for 2 seconds to power off. The automatic shut off timer will activate after 5 minutes of no operation.



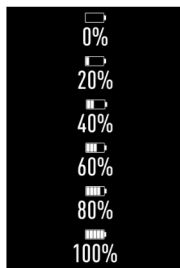
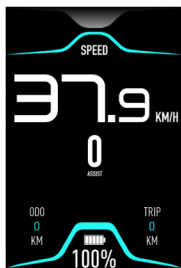
Vehicle Speed Display

Displays current, max, and average speed.




Battery Level Indicator

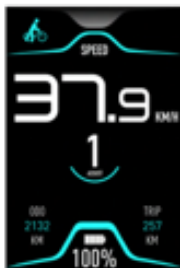
Five horizontal blocks show the charge level of the battery. Each block is 20% of the total battery charge.




Press the **+** or **-** buttons to switch the assist level. Level 1 provides the minimum amount of assist, level 5 provides the highest amount of assist. Level 0 disables the pedal assist.



To activate the push assistance, make sure the assist level is 1-5. Press the  button and keep it pressed for 4 seconds.




Headlight Control

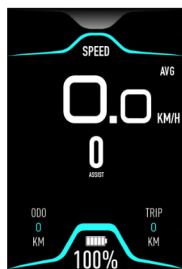
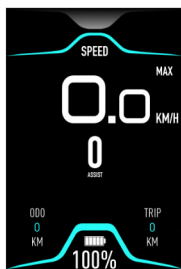
Press the  button and keep it pressed for 4 seconds to turn on the headlight. Repeat the operation to turn off the headlight.




Other Functions and Operations

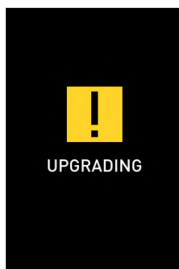
Switching the Speed Mode

There are 3 speed display modes (SPEED, MAX SPEED, and AVG SPEED). Press the  button to switch modes. Default is SPEED.





Entering the Firmware Mode

Press **+**, **-** and  buttons for 4 second to enter the firmware upgrade mode. The interface will only display a firmware upgrade indicator.





Settings

Press  button to enter the settings menu. In the settings menu, press the **+** or **-** buttons to switch the settings. Long press the  button to exit setting mode.

SETTINGS	
INFORMATION	>
WHEEL	>
MAX SPEED	>
BATTERY INFORMATION	>
BRIGHTNESS	>

Information

Enter the setting mode and switch to information item.
Press the  button to confirm setting.
Press the  button to exit.

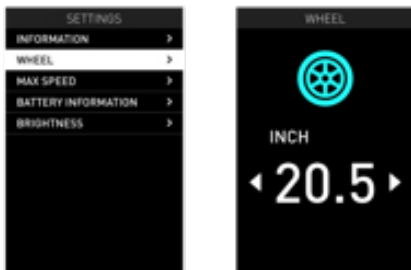
SETTINGS	
INFORMATION	>
WHEEL	>
MAX SPEED	>
BATTERY INFORMATION	>
BRIGHTNESS	>

INFORMATION	
TRIP	2131 KM
ODO	21312 KM
TIME	00:23
MAX	45.1 KM/H
AVG	11 KM/H

Enter the setting menu and select "Wheel". Press the **i** button to confirm setting.

Press **+** or **-** buttons to switch between 5-35 inches.

Press **i** to save and exit.

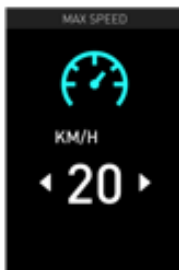


Setting the Speed Limit

Enter the setting mode and switch to max speed item. Press the **i** button to confirm setting.

Press **+** or **-** buttons to switch between 10-60 km/h.

Press **i** to save and exit.



Errors

Error code

When the controller encounters an issue, the related error code will appear on the display.



The below table shows the error codes.

Error Code	Cause of Issue
E01	No error
E02	Temperature protection
E03	Short circuit protection
E04	Throttle failure
E05	Motor phase loss
E06	Torque sensor failure
E07	Stall failure
E08	Undervoltage
E09	Overpressure
E10	Hall sensor failure