VALLKREE LCD-P
Display Instructions

Button definition
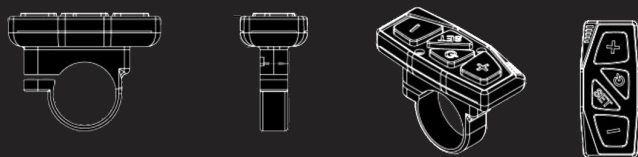
LCD-P has four buttons, including **ON/OFF**, **SET**, **UP** and **DOWN**.
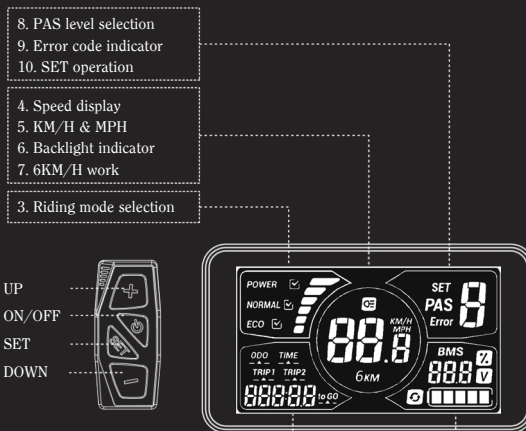
ON/OFF = ⏻

SET = *SET*

UP = +

DOWN = −

Function Summary

LCD-P provides a wide range of functions and indicators to fit the users' needs. The indicated contents are as below.
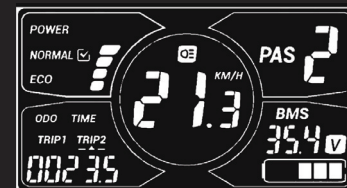
1. ON/OFF
2. Current display
3. KM/H & MPH
4. Backlight Indicator
5. 6KM/H Work
6. PAS Level Selection
7. Error Code Indicator
8. SET Operation
9. Distance Indication
   9.1 Total distance (ODO)
   9.2 Trip 1
   9.3 Trip 2
10. Trip time indicator
11. Battery indicator
    11.1 Battery residual capacity indicator
    11.2 Battery voltage
12. Cable definition
13. Auto sleep after 5 minutes

8. PAS level selection
9. Error code indicator
10. SET operation

4. Speed display
5. KM/H & MPH
6. Backlight indicator
7. 6KM/H work

3. Riding mode selection

UP
ON/OFF
SET
DOWN

11. Distance indicator
    11.1 Total distance (ODO)
    11.2 Trip 1
    11.3 Trip 2
    11.4 Remaining distance (to go)
12. Trip time indicator

13. Batter indicator
    13.1 Battery residual capacity indicator
    13.2 Battery voltage
    13.3 Battery capacity percentage
    13.4 Battery charging and discharging times
14. Trip time indicator
15. Auto sleep after 5 minutes

Full View Area

Normal View Area

Normal Operation

1. ON/OFF

Hold ON/OFF and start the display. The display will provide power for the controller. Hold ON/OFF again to open the backlight. With display on, press ON/OFF for 3 seconds to turn off the power. With the display off, there is no battery power consumption. The leakage current is no more than 2 µA.

The panel will go to sleep when the speed is 0 km/h for 5 minutes.

2. Current Display

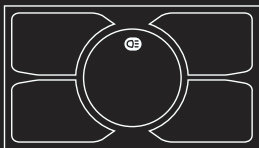That represents the discharging current of the controller currently, each segment is 2A, six segments is ≥12A.

3. KM/H & MPH

Select KM/H or MPH for the speed and mileage, display will be the currently selected units display.

4. Backlight Indicator

With the power on, click the ON/OFF and turn on the backlight. Click it again and turn off the backlight.

If the e-bike has headlight, the controller will turn on/off the headlight at the same time of the backlight on/off (without this function by default).
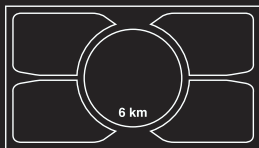
5. 6KM/H Work

Hold the DOWN for 2 seconds to get in 6km PAS work, and with your hand off, the 6km PAS work is released. The display is as below.

6. PAS Level Selection

Click UP or DOWN to change the stages and output power ratio, the default mode are from mode 1 to mode 6.

7. Error Code Indicator

If there is something wrong with the electronic control system, the display will flash at 1 HZ and show the error code automatically.
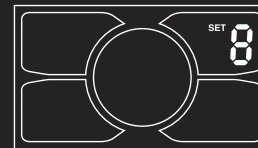Different error code is corresponding with different fault information, please see the last page Error code table for details.

Display return to normal only after problem being fixed and e-bike will not run before fixing the problem.

8. SET Operation

Hold the SET for 2 seconds and enter into the setting interface, then Number 8 is lighting, the display will flash at 1 HZ. Click the SET to cycle from 0 to 2 setting interface, press UP or DOWN to select the wanted parameter, and hold the SET for 1 second to exit.

8.1 SET 0:Reset trip 1 distance
Click the DOWN to reset the trip 1, then the TRIP1 icon will flash at 1 HZ, meanwhile the trip 1 will be cleared.

8.1 SET 1:Wheel diameter setting
Select the accurate wheel diameter value to ensure the accuracy of display about speed and mileage.

8.2 SET 2:KM/H & MPH
Select KM/H or MPH for the speed and mileage, display will be the currently selected units display.
Press UP or DOWN to select parameter, hold the SET for 1 second to save and exit.

9. Distance Indicator
With the display on, press SET to switch the display information, in turn shows: ODO, trip 1and trip 2.

9.1 ODO
The ODO records the driving mileage from using, the accumulated value cannot be cleared.
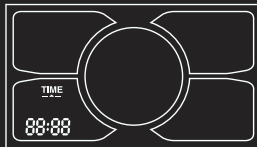
9.2 Trip 1
Trip 1 can be reset by hand in the SET 1 interface. (when the riding mileage ≥500km, it will be reset automatically. The value will be accumulated without resetting.)
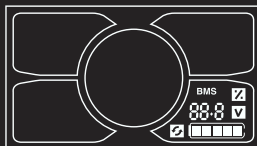
9.3 Trip 2
Trip 2 displays the last driving distance for 30 s after turning on the display, then reset it automatically and start to record the current distance.

10. Trip Time Indicator
The riding time parameter is automatically reset hen the speed>5KM/H. after shut down

11. Battery Indicator

11.1 Battery residual capacity indicator
The battery frame has five segments. Each segment represents 20% battery capacity. When the capacity is full, the five segments are all light. In low battery, the battery frame will flash, it indicates that the battery is severely low and needs to be recharged immediately.

Low battery flash

11.2 Battery voltage
It displays the current voltage of the battery. The panel displays the voltage for the default.

12. Cable Definition
1 RED: Battery +
2 BLACK:Battery –
3 GREEN: UART-SEND(TXD)
4 BLUE: UART- RECEIVE(RXD) 5 YELLOW:Lock

13. Auto Sleep After 5 Minutes
When the riding speed is 0 km/h for 5 minutes, the system will go to sleep automatically.

Error Code Table
The error code is corresponding with the fault definition.

ERROR CODE	DEFINITION
2	Current error or MOS damaged
3	Motor stalling
4	Under voltage
5	Brake error (start detection)
6	Hall damaged
7	Throttle error
8	Error 3, 5, 8
9	Over high voltage (>45V)
10	Communication controller receiving error
15	Communication display receiving error