

## User Guide

### K5304- LCD

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## **Introduction**

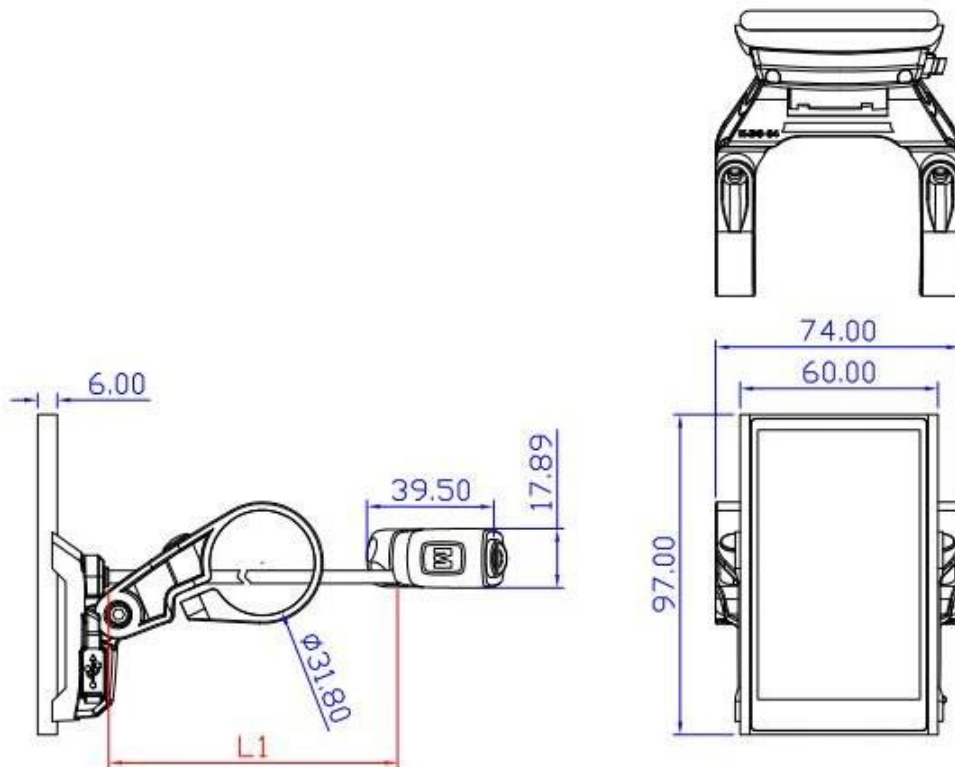
Dear users, in order to better operate your e-bike, please carefully read the manual of K5304 LCD display before use. We will tell you every detail of display in the simplest language, including the installation and setting of hardware and the normal use of the display. At the same time, it helps you solve the possible confusion and obstacles.

## 1. Dimensions

### 1.1 Material and color

K5304 product housing is made of aluminum alloy and tempered glass material, and the color is blackmatte. The material of the housing is allowed to be used normally at the temperature of - 40 °C to 80 °C, and good mechanical properties can be guaranteed.

Figure and dimension drawing (unit: mm)



## 2 Function and button definition

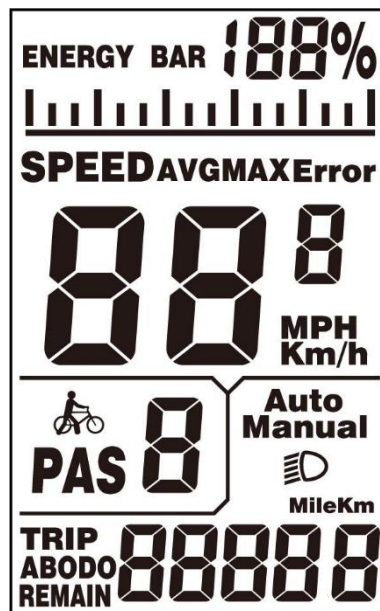
### 2.1 Function description

K5304 provides you with a variety of functions and displays to meet your riding needs.

K5304 displays:







- ◆ Battery capacity;
- ◆ Speed (including real-time speed display, maximum speed display and average speed display);
- ◆ Distance (including trip and ODO);
- ◆ 6KM/H;
- ◆ Backlight turn on (Boot normally on/Backlight Level: 1/ Adjustable Range: 1~3/);
- ◆ Error code;
- ◆ Multiple setting parameters.

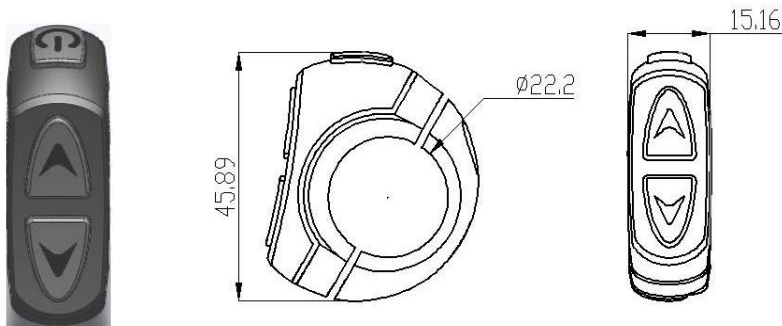
### 2.2 Display area



K5304 display fully

## 2.3 Button definition

The main body of the button is made of PC material, and the button part is made of soft silicone material, all in black. There are three buttons on the K5304 display. Including power on/mode button , plus button  and minus button  In the following description  button is replaced by the text **【MODE】**.  button is replaced by the text **【UP】**.  button is replaced by the text **【DOWN】**



## 3. User reminder

Pay attention to safety during use. Do not plug and unplug the display when it is powered on.



Avoid bumping the display as much as possible.



The film used for the display is a waterproof film. Please do not tear it off to avoid affecting the waterproof performance of the display.



Please do not change the background parameter setting of the display at will, otherwise the normal riding cannot be guaranteed.



When the display cannot be used normally, it shall be sent for repair as soon as possible.

## 4. Installation instructions

Fix the display on the handlebar and adjust the appropriate angle of view. When the e-bike is powered off, the display can be completed by inserting the connector of the display and the connector corresponding to the controller.

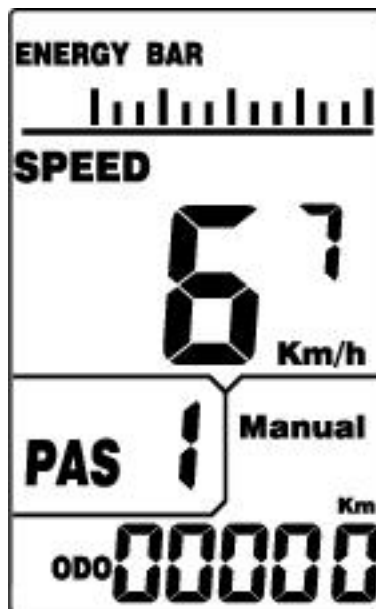
## 5. Operation introduction

### 5.1 Power on/off

After hold the **【MODE】** button, the instrument starts to work and provides the working power supply of the controller. In the power on state, hold the **【MODE】** button to turn off the power supply of the e-bike. In the power off state, the display no longer uses the power supply of the battery, and the leakage current of the display is less than 1uA.

If the e-bike is not used for more than 10 minutes, the display will power off automatically.

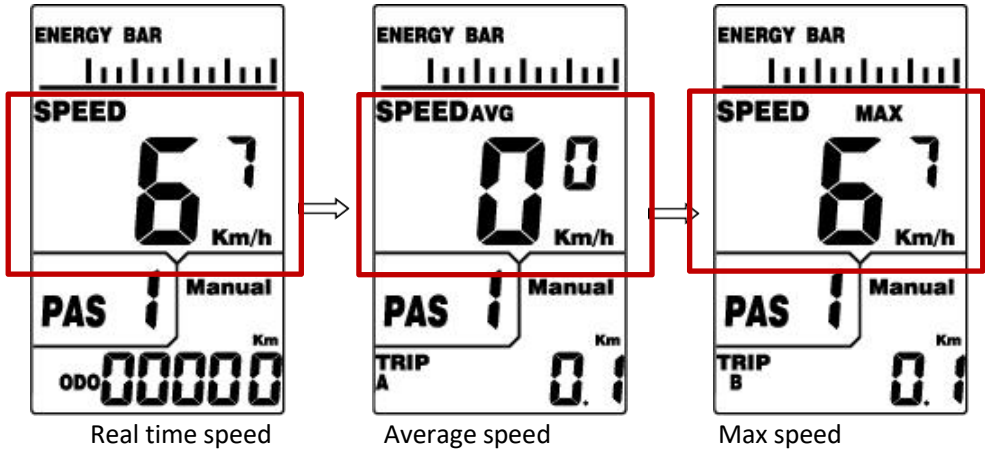
### 5.2 User interface





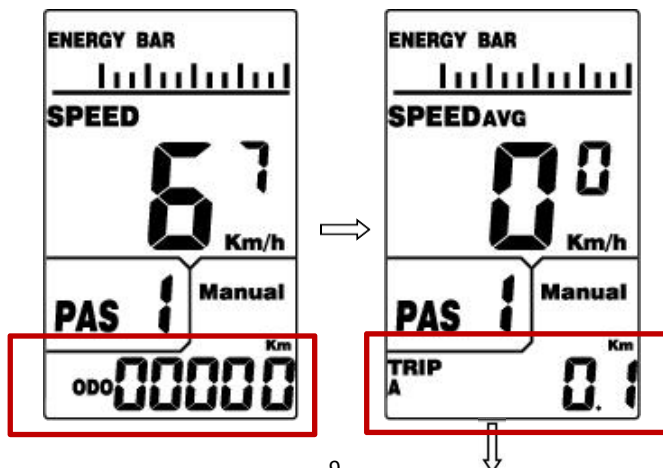
## 5.3 Speed

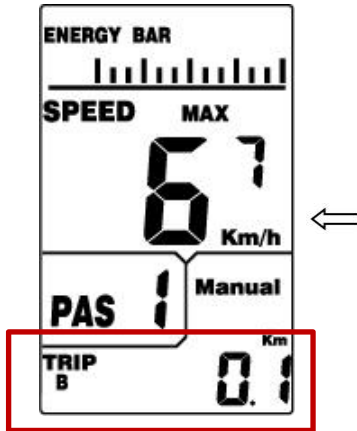
Long press the [mode] button and the [UP] button to enter the speed switching interface, and speed (real-time speed), AVG (average speed) and max (maximum speed) are displayed respectively, as shown in the figure:



## 5.4 Trip/ODO

Press the [mode] key to switch the mileage information, and the indicate is: TRIP A (single trip) → TRIP B (single trip) → ODO (cumulative mileage), as shown in the figure:





## 5.5 Walk Assist Mode


When the display is turn on, hold the [DOWN] button for 3 seconds, the e-bike will enter the state of walk assist mode. The e-bike travels at a constant speed of 6km/h. The screen will flash “WALK”.

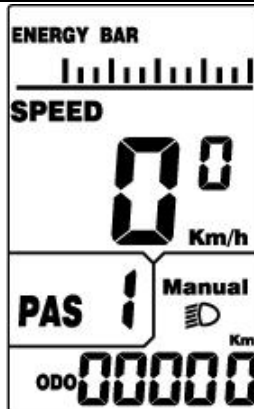


Walk interface

The walk assist mode function can only be used when the user pushes the e-bike. Do not use it when riding.

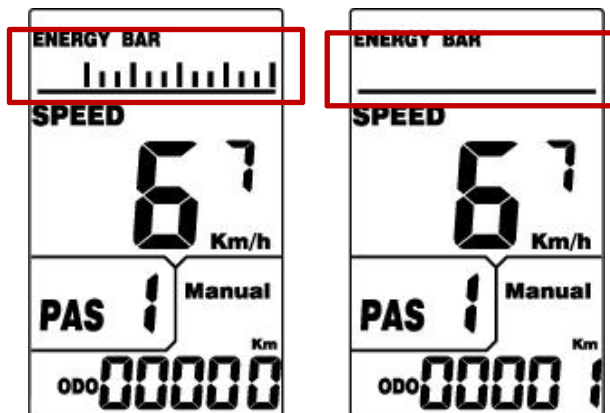
## 5.6 Headlight On/Off

Hold the [UP] button to display the interface as shown, and the icon  appears, indicating that the lights have been turned on. Long press the [UP] button again to turn off the lights.



Headlight on interface

## 5.7 Battery indicator



When the battery power is displayed as shown in the picture on the right, it indicates that the battery is under voltage. Please charge it in time!

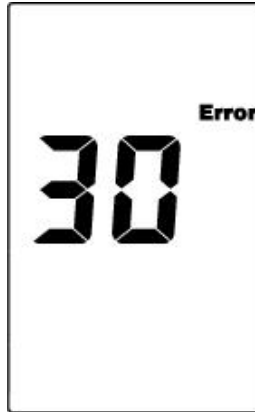
## 5.8 Trip resetting

When the display is turned on and e-bike is not running, hold the [mode] and [down] buttons for 2 seconds at the same time, and the Trip(single mileage) of the display will be cleared.

## 6 Error code

When the e-bike electronic control system fails, the display will automatically display ERROR code.

For the definition of the detailed error code, see Schedule 1.



Error code interface

Only when the fault is eliminated, can exit the fault display interface, the e-bike will not continue to run after the fault occurs.

## 7. User setting

### 7.1 Preparation before startup

Ensure that the connectors are firmly connected and turn on the power supply of the e-bike.

### 7.2 General setting

Press and hold the [MODE] button to power on the display. In the no-speed state, press and hold the [UP] and [DOWN] buttons at the same time for 2 seconds, and the display enters the input password interface, adjusts the number through the [UP] and [DOWN] keys in the interface, and presses the [MODE] key to switch positions. Setting password is 9999.



Password Interface

## 7.2.1 Backlight brightness setting

Enter the setting state, P01 indicates the backlight brightness selection, press the [UP]/[DOWN] button to switch the brightness. Factory default setting is 1, adjustable range 1-3. Long press the [MODE] button to save and exit the setting, short press the [MODE] button to enter the next setting interface.



Backlight brightness setting interface

## 7.2.2 Metric and imperial setting

Press the [UP]/[DOWN] button to switch between metric units (Km) and imperial units (mile), the default setting is metric. Press and hold the MODE button to save and exit the settings and press the MODE button to enter the next settings interface.



Metric/Imperial setting interface

### 7.2.3 Automatic shutdown time setting

Press [UP]/[DOWN] to select the automatic shutdown time, the default setting is 10 minutes. adjustable range 1-60. Press and hold the MODE button to save and exit the settings and press the MODE button to enter the next settings interface.



Automatic shutdown time setting interface

### 7.2.4 Wheel size setting

Press [UP]/[DOWN] to select the corresponding wheel diameter of the E-bike to ensure the accuracy of the speed display and mileage display. The factory default setting is 22 inches, can be set values: 16, 16.5, 17, 17.5, 18, 18.5, 19, 19.5, 20, 20.5, 21, 21.5, 22, 22.5, 23, 23.5, 24, 24.5, 25, 25.5, 26, 26.5, 700C, 27.5, 28 inches. Press and hold the MODE button to save and exit the settings, and press the MODE button to enter the next settings interface.



Wheel size setting interface

## 7.2.5 Speed limit setting

Press [UP]/[DOWN] to select the speed limit, the default speed limit of 25KM/H, adjustable range 12-40. Press and hold the MODE button to save and exit the settings and press the MODE button to enter the next settings interface.



Speed limit setting interface

## 7.2.6 Speed sensor setting

Press [UP]/[DOWN] to select the number of magnetic steel of speed sensor. The default number is 1, and the adjustable range is 1-6. Long press the MODE button to save and exit the setting, and short press the MODE key to enter the next setting interface.



Speed sensor setting interface

## 7.2.7 Zero start setting

Short press [UP]/[DOWN] to select the zero start or non-zero start, the default setting is zero start, 0 means zero start, 1 means non-zero start. Press and hold the MODE button to save and exit the settings and press the MODE button to enter the next settings interface.



Zero start setting interface

## 7.2.8 Drive mode settings

Press [UP]/[DOWN] to select the driving mode of the E-bike, the default setting is two driving methods coexist, 0 indicates the PAS (power assistance) mode; 1 indicates electric drive mode; 2 indicates that the PAS mode and the electric drive mode coexist. Press and hold the MODE button to save and exit the settings and press the MODE button to enter the next settings interface.





Drive mode settings interface

## 7.2.9 PAS Sensor sensitivity setting

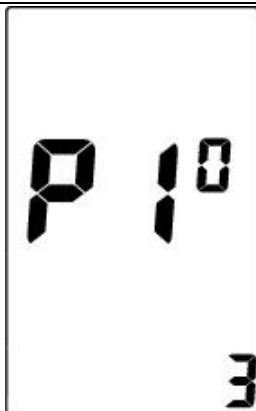
Short press [UP]/[DOWN] to select the power-assist sensor sensitivity, the default setting is 3, adjustable range 1-24. Press and hold the MODE button to save and exit the settings and press the MODE button to enter the next settings interface.



PAS Sensor sensitivity setting interface

## 7.2.10 Power start strength setting

Press [UP]/[DOWN] to select the power start strength, the default setting is 3, and the adjustable range is 0-5. Press and hold the MODE button to save and exit the settings and press the MODE button to enter the next settings interface.



Power start strength setting interface

## 7.2.11 PAS sensor setting

Press [UP]/[DOWN] to select the number of magnet steel of the PAS sensor, the default setting is 12, and the adjustable range is 5, 8, 12. Press and hold the MODE button to save and exit the settings and press the MODE button to enter the next settings interface.



PAS sensor setting interface

## 7.2.12 Current limit setting

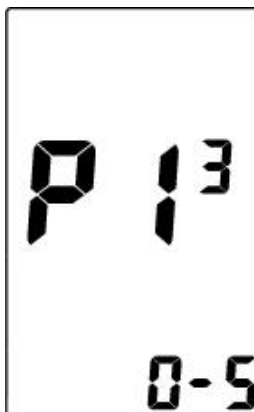
Press [UP]/[DOWN] to select the current limit value of the Electric system, the default setting is 20A, and the adjustable range is 1A-20A. Press and hold the MODE button to save and exit the settings and press the MODE button to enter the next settings interface.



Current limit setting interface

### 7.2.13 Pas level range setting

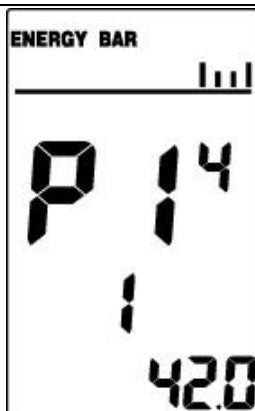
Short press [UP]/[DOWN] to select the PAS level. The default setting is 0-5, and the adjustable range is 0-3, 1-3, 0-5, 1-5, 0-7, 0-9, 1-9. Press and hold the MODE button to save and exit the settings and short press the MODE button to enter the next settings interface.



Pas level range setting interface

### 7.2.14 Battery power setting

Long press [MODE] and [UP] to switch each power value, and press [UP]/[DOWN] to select the power value. The default setting is 36V/48V universal. Press and hold the MODE button to save and exit the settings and press the MODE button to enter the next settings interface.



Battery power setting interface

### 7.2.15 Voltage range settings

Press [UP]/[DOWN] to select the voltage range of the display, the default setting is 36V, and the adjustable range is 36V/48V. Press and hold the MODE button to save and exit the settings and press the MODE button to enter the next settings interface.



Voltage range settings interface

### 7.3 Exit setting

In the setting state: press MODE to confirm the input to enter the next setting; hold MODE to confirm the current setting and exit the current setting state.



The display automatically exits the setting state without any operation for 1 minute.

## **8.FAQ and Answers**

Q: Why can't turn on the display?

A: Check if the battery power is turned on, the outer leakage cable is broken or not.

Q: What should I do if the display shows error code?A: Timely repair at the e-bike repair shop.

## **9.Quality Warranty And Coverage**

I. Warranty:

1. In the case of normal use, due to the quality problems caused by the product itself,the company will be responsible for the warranty during the warranty period.

2. The warranty: 24 months since the display out of the factory.

II. The following conditions are not covered by the warranty:

1. The casing is opened.

2. Connector is broken.

3. The display leaves the factory, the casing is scratched or the casing is damaged.

4. Scratch or break of the display lead wire.

5. Failure or damage caused by force majeure (such as fire, earthquake, etc.) or natural disasters (such as lightning strikes).

6. Product is out of warranty.

## **10.Version number**

This operating instruction is a general-purpose version of KING-METER TECHNOLOGY CO., LTD (V1.0) . Some of the version for the display software will be different from the specification, which should depend on the actual use version.

## Appendix 1: Error Code

Error code	Description
21	Current abnormal
22	Throttle abnormal
23	Motor phase failure
24	Motor hall abnormal
25	Brake abnormal
30	Communication abnormal
31	Power on/off button adhesion
34	6kmfunction button adhesion

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