



ELECTRIC BIKE  
**INSTRUCTION MANUAL**

[www.asomt.com](http://www.asomt.com)



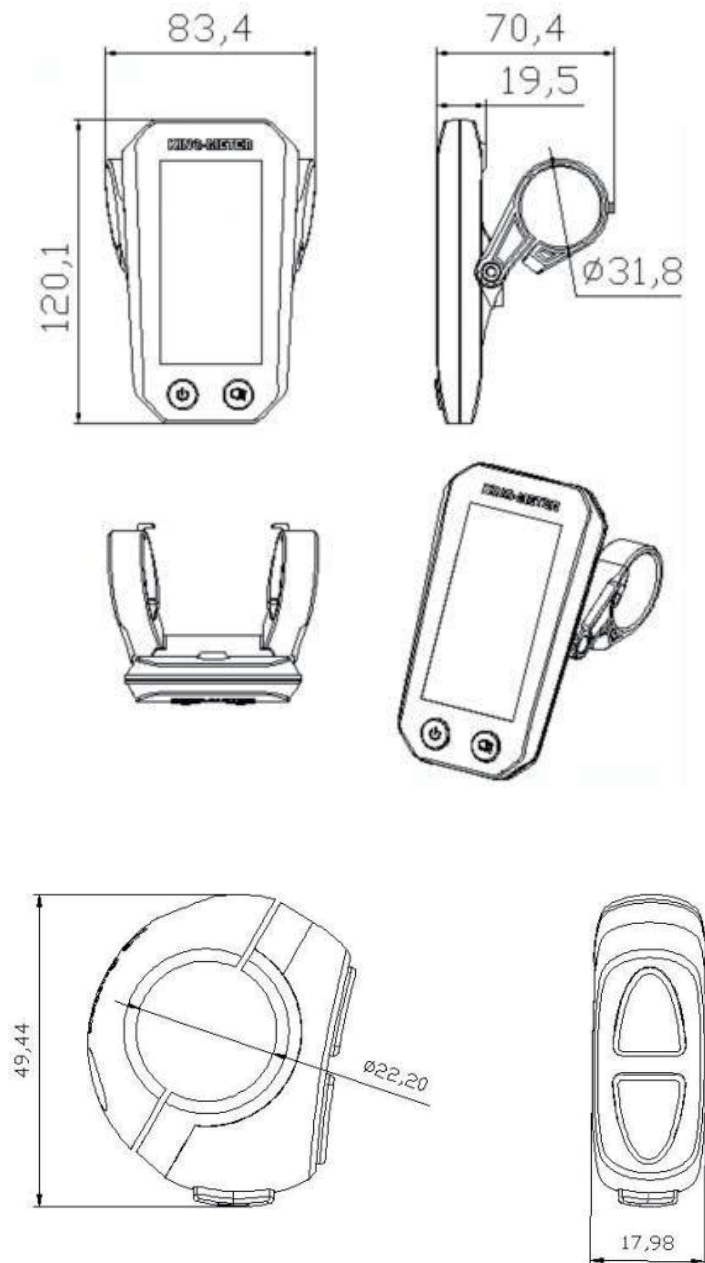
# RV3 Display User Manual



# 1. Appearance Dimensions and Material Color

## 1.1 Appearance Dimensions

The JK-LCD product is made of PC material. The material of the casing allows for normal usage within a temperature range of -20°C to 60°C and ensures good mechanical performance. Dimensional diagram (unit: mm):



## 1.2 Material Color

Material Color: Black

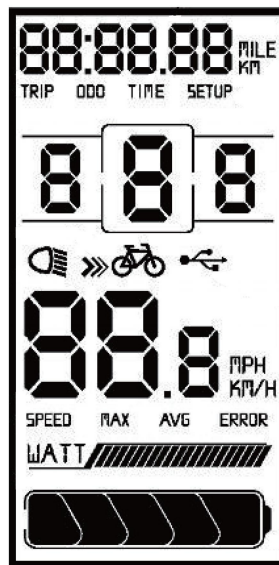
## 2.Function and Button Definitions

### 2.1 Function Description

The JK-LCD display provides the following information:




- ① Battery level display
- ② Speed display (including real-time speed, maximum speed, and average speed)
- ③ Mileage display (including single trip mileage and total mileage) with mileage time
- ④ Assist level display
- ⑤ Backlight always on
- ⑥ Headlight on and off
- ⑦ 6km/h assist walk function
- ⑧ Power display
- ⑨ Error code display
- ⑩ Multiple setting parameters: speed limit, backlight brightness, unit display

### 2.2 Display Area



JK-LCD Normal Display Interface

## 2.3 Button Definitions

The N3 button is wired and connected at the bottom of the display. In the following instructions, the button  will be referred to as "M" in text. The button  will be referred to as "UP" in text, and the button  will be referred to as "DOWN" in text.

## 3. User Reminders

During use, pay attention to safety and avoid plugging or unplugging the display while power is on.



Handle the display with care to avoid any impact.



The display is equipped with a waterproof film, please do not remove it to ensure its waterproof performance.



If the display malfunctions, please send it for repair as soon as possible.

## 4. Installation Instructions

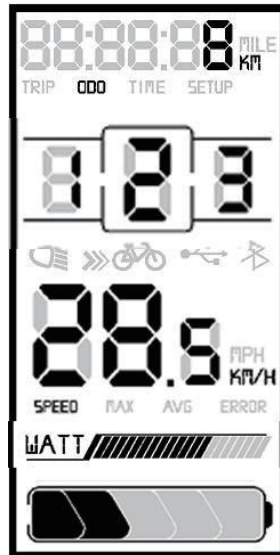
Secure the display and buttons to the handlebars and adjust them to a suitable viewing angle. With the electric bike powered off, connect the display's connector to the corresponding connector on the controller to complete the installation.

## 5. Normal Operations

### 5.1 Power On/Off

Briefly press the power button on the display to turn on the display and provide power to the controller. In the powered-on state, a short press of the power button can turn off the electric bike. In the powered-off state, the display does not use power from the battery, and the standby power consumption of the display is less than 1uA. If the electric bike is not used for more than 10 minutes, the display will automatically power off.

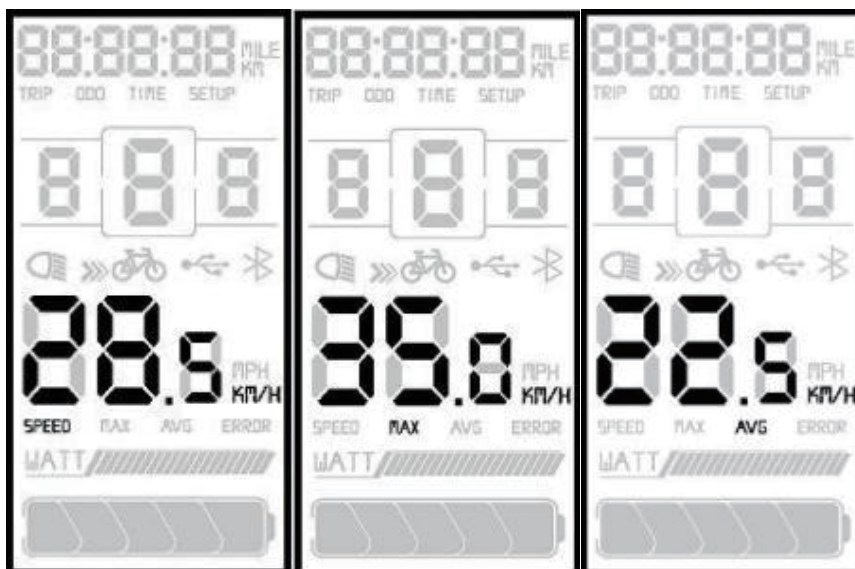
## 5.2 User Interface



## 5.3 Speed / Trip Distance / Total Distance

### 5.3.1 Speed

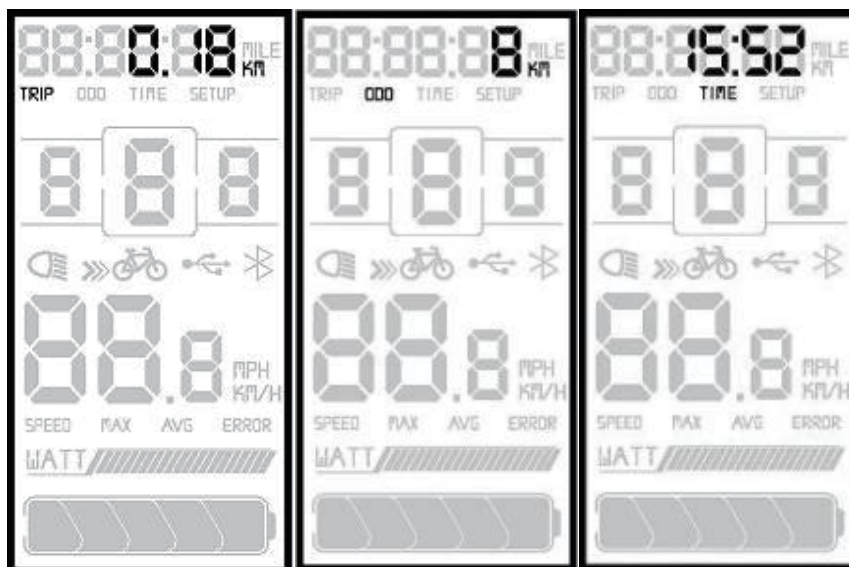
After powering on the display, it will default to showing the real-time speed. Press and hold the M button for 3 seconds to switch the displayed information. It will cycle through: real-time speed → highest speed during this trip → average speed during this trip.



Real-time Speed Display Maximum Speed Display Average Speed Display

### 5.3.2 Single Trip Distance/Total Distance/Single Trip Time

After the instrument is powered on, it will default to displaying the Single Trip Distance. Press the M button to toggle between the following displays: Single Trip Distance (in km) -> Total Distance (in km) -> Single Trip Time. When displaying the Single Trip Distance or Single Trip Time, simultaneously press the M+DOWN buttons to reset the corresponding distance/time to zero.



Single Trip Distance (TRIP) Total Distance (ODO) Single Trip Time (TIME)


### 5.4 Power-Assisted Push

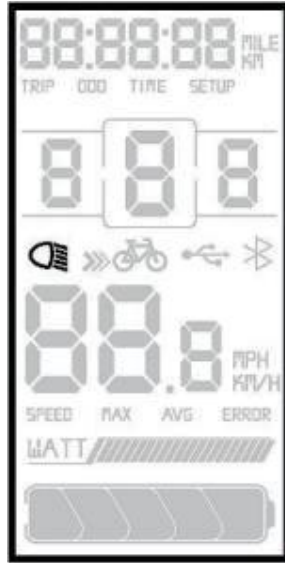
Press and hold the DOWN button to enter the Power-Assisted Push mode, where the e-bike will travel at a constant speed of 6 km/h.



6 km/h Power-Assisted Push Interface

## 5.5 Headlight Switch

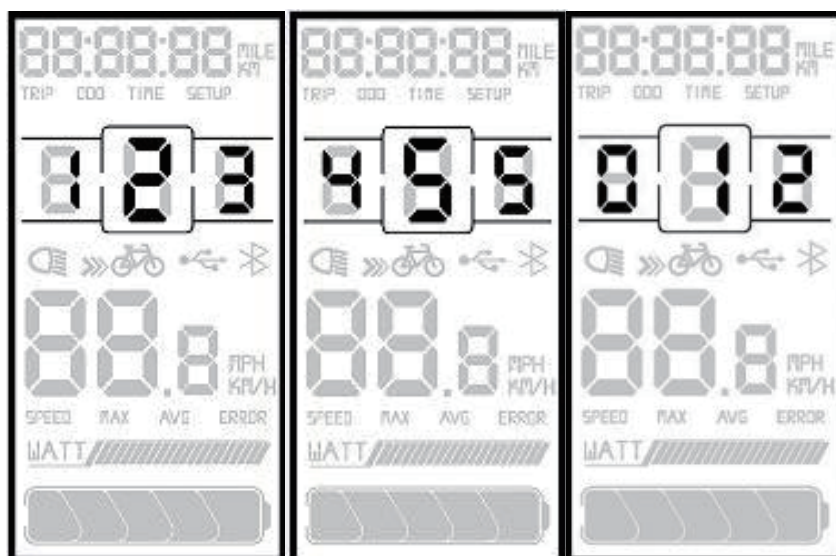
Press the button  to turn on the headlight, and the instrument will notify the controller to activate the front light of the e-bike.



Headlight On Display Interface

## 5.6 Power Assist Level Setting

Press the UP or DOWN button to switch between different power assist levels, which will change the motor output power. The instrument defaults to a power range of 1-5, with 1 being the lowest power level and 5 being the highest. The instrument starts up with the default level set to



1st Gear Display

2nd Gear Display

Highest Gear Display



## 5.7 Battery Level Display

When the battery level is full, all five segments of the LCD will light up. When the battery capacity is low, the outer frame of the battery icon will blink, indicating a low voltage condition and the need for immediate charging.



Highest Battery Level Display

Low Battery Level Display

Under Voltage

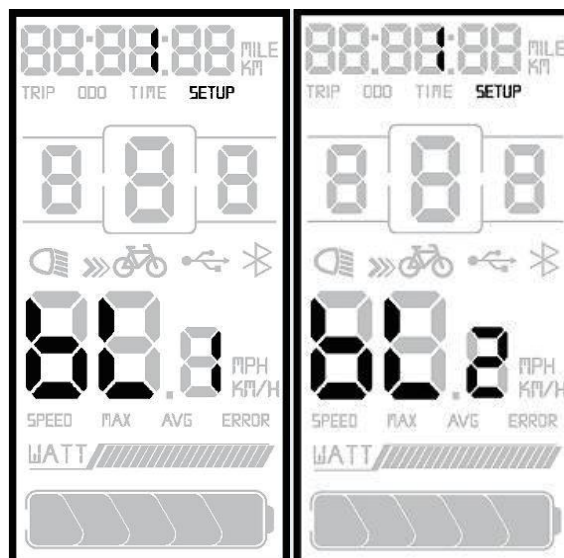


Motor Power Display

## 6. General Settings

### 6.1 Backlight Brightness

Since the instrument has a constant backlight, the brightness of the backlight differs under two different conditions: a. when the headlight is on, and b. when the headlight is off. The backlight brightness can be set to three levels: 1, 2, and 3, with 1 being the dimmest, 2 being the standard brightness, and 3 being the brightest. The default setting is 1. Press the UP or DOWN buttons to change the backlight brightness level, and press the M button to confirm.

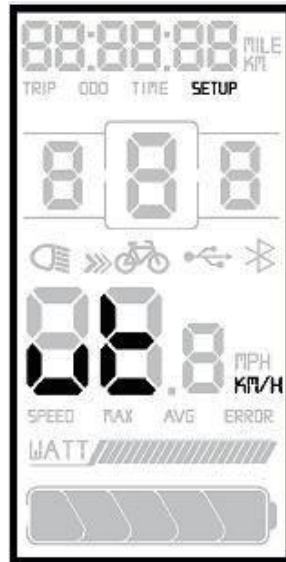


a. Headlight On

b. Headlight Off

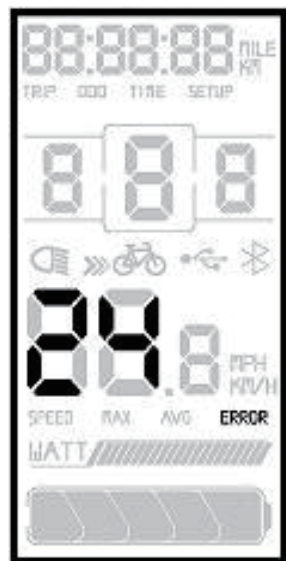
## 6.2 Unit Display Setting

The unit display setting allows you to select the display units by pressing the UP and DOWN buttons. The unit options include km/h or mph. When selecting the speed display unit, the distance units (mile and km) will also change accordingly.



## 7. Error Codes

When there is a fault in the e-bike's electronic control system, the instrument will automatically display an error code. The fault display interface will only be exited when the fault is resolved. After a fault occurs, the e-bike will be unable to continue operating.



Error Code Display Interface

For detailed definitions of the error codes, please refer to the table below:

Error	Code	Definition Solution
21	Current Abnormality	Check if the motor's three-phase lines are short-circuited
22	Throttle Abnormality	Check if the throttle has returned to its initial state
23	Motor Phase Lack	Check if the phase lines are in good condition and if they are properly connected to the controller
24	Motor Hall Signal Abnormality	For controllers without Hall sensors, check if the phase lines are in good condition For controllers with Hall sensors, check if the Hall sensors are in good condition
25	Brake Abnormality	Before powering on, check if the brake lever is reset
26	Communication Abnormality	Check if the connection between the display and the controller is good

### **Error Code Definition**