

# **USERS GUIDE**

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## **Digital\_II**



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## **Preface**

Dear Users,

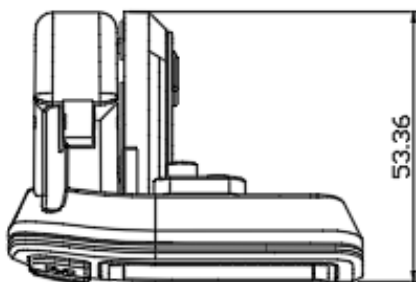
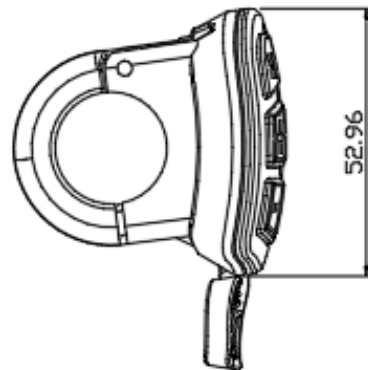
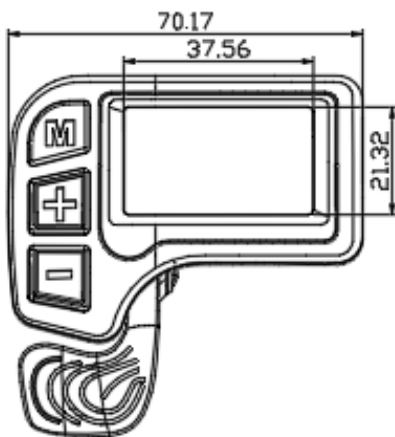
To ensure better performance of your e-bike, please read through the Digital II product introduction carefully before using it. We will use the brief words to inform you of all the details (including hardware installation, setting and normal use of the display) when using our display. Meanwhile, the introduction will also help you solve possible confusion and barriers.

## 1. Appearance and Size

### 1.1 Material and Color

Digital II LCD product is made of Black and White plastic (PC) materials, the working temperature scope of the housing material is  $-20^{\circ}\text{C}$ — $+60^{\circ}\text{C}$ , the shell material can ensure normal use and good mechanical performance of the products.

Display Dimensions (Unit: mm)



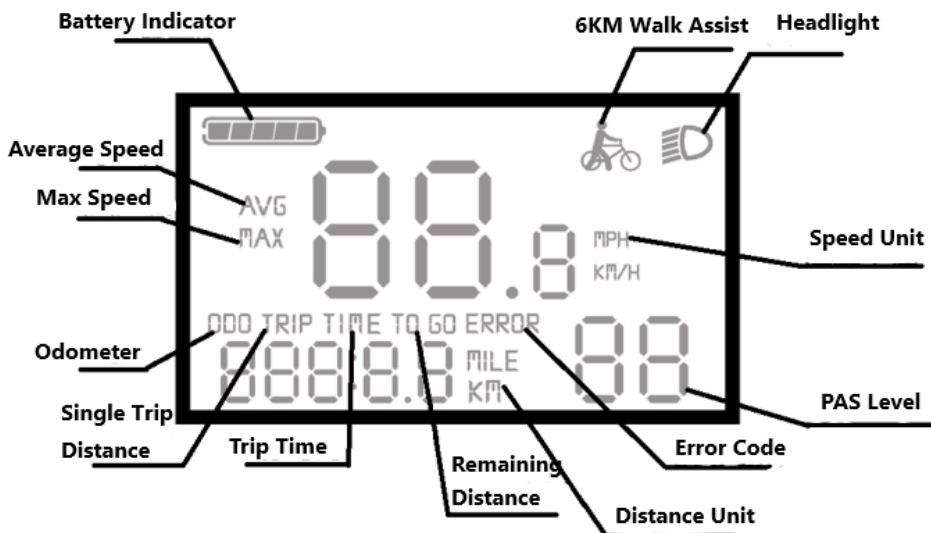
## 2. Function Summary and Button Definition

### 2.1 Function Summary




Digital II display provides a variety of functions and displays to meet customer's riding needs.  
Display content list as follows:

- ◆ Battery indicator
- ◆ Speed display (Including real-time speed, Max speed and Average speed display)
- ◆ Distance display (Including single trip distance and Odometer display)
- ◆ Single trip time display
- ◆ 6km/h Walk assist function display
- ◆ Headlight on / off
- ◆ Error Codes display
- ◆ Various Parameters Settings
- ◆ Default parameter recovery

### 2.2 Display Content



## 2.3 Button Definition

There are 3 buttons on the Digital II display, in the following introduction,  is named as "MODE"  
 is named as "UP"  is named as "DOWN"

## 3. Note for Users

Take care when using the display and do not connect/disconnect it while the power is on.



Avoid striking or knocking the display.



Do not remove the waterproof film attached to the display as this may impair its waterproofing.



Don't modify system parameters to avoid parameters disorder.



In the case of errors or malfunctions the display should be returned to your local supplier for repairs/replacements.

## 4. Installation Instruction

Fix the display onto the handlebar and adjust to an appropriate visual angle when power off the E-bike, plug the connector of the display with the connector corresponding to the controller to complete the installation.

## 5. User Settings

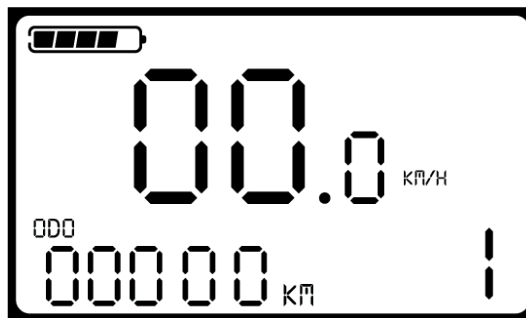
### 5.1 Power On/Off

Long press “MODE” button for 2 seconds then the display will power on, and the display will turn on the controller. In power on state, long press “MODE” button to turn off the power supply of the e-bike. In power off state, the display no longer use the battery power. The leakage current is less than 1 uA.



If the E-bike has not been used for 10 minutes, the display will turn off automatically.

### 5.2 User Interface



### 5.3 Speed / Single Trip distance / Odometer

After the display is powered on, the display will show the current default speed. Short press the “MODE” button briefly to switch the display information. The sequence of display is:

Real-time speed (Km/h) → Average speed of this trip (Km/h) → Maximum speed of this trip (Km/h)  
→Real-time speed (Km/h)



After the display is powered on, the display will show the odometer by default in the bottom of the display (Km) Press and hold “MODE” and “DOWN” button for 2 seconds to switch the display information. The sequence of display is:

Odometer (Km) → Single trip distance (Km) → Single trip time → Odometer (Km).



## 5.4 Walk Assist Mode

Hold “DOWN” button for 2 seconds to enter the mode of walk assistant. The e-bike will go on at speed of 6 Km/h. The walk assist icon will shows on the top of the display.



The walk assist mode can only be used when the user is pushing the E-bike. Do not use it when riding.

## 5.5 Turn On/Off the Headlight

Press and hold “UP” button for 2 seconds to turn on the backlight of the display, and the controller will be informed to turn on the headlight. When the external light is insufficient or riding at night, user can turn on the LCD backlight .Long press the “UP” button again to turn off the backlight.



## 5.6 PAS Level Setting

Short press the "UP" or "DOWN" button to switch the PAS level, the motor output power will be changed accordingly by the PAS level of E-bike. The output power of the motor are 1-5 levels. The level 1 is the lowest output level, and the level 5 is the highest output power level of the motor. The default start up level is level 1.





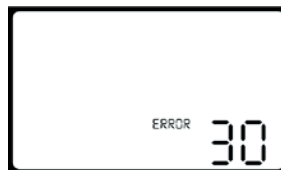
## 5.7 Battery Power Display

The 5 battery bars represent the capacity of the battery. When the battery is in low voltage, battery frame will flash to notice that the battery needs to be recharged immediately.



## 6. Error Code

When the E-bike electric system fails, the display will show the error code automatically. The detailed information of the error code (see Appendix 1).



Only after the fault is eliminated, the error code interface can be cleared, the E-bike will not be able to ride when error code occurs.

## 7. User Settings

### 7.1 Preparation Before Starting

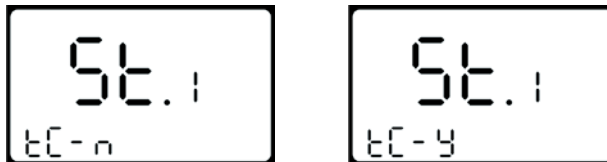
Please make sure all connectors are tightened and turn on the power of the E-bike.

## 7.2 General Settings

Press and hold “MODE” button to turn on the display, then hold both “UP” and “DOWN” button for 2 seconds to enter the setting menu.

### 7.2.1 Single Trip Distance Clearance

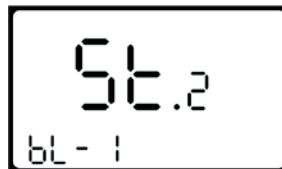
“TC” means **Single trip distance clearance**, the setting parameter can be N / Y. The default setting “N” means the single trip distance is not cleared. Y / N can be selected by pressing the “UP” and “DOWN” button. “Y” means the single trip distance needs to be cleared, and “N” means the single trip distance does not need to be cleared. Press mode to confirm and enter the backlight setting interface.



Single trip distance and single trip time are cleared at the same time.

### 7.2.2 Backlight Setting

“BL” means **backlight**. Setting option levels are 1, 2 and 3, level 1 is the lowest brightness. Level 2 is the standard brightness. Level 3 is highest brightness. The default level is 1. Press “UP” or “DOWN” button to modify the backlight brightness.



### 7.2.3 Wheel Size Setting

“LD” means **wheel size**. The setting option values are: 16, 18, 20, 22, 24, 26, 700C and 28inch. Press “UP” and “DOWN” to select the value. Select the wheel diameter corresponding to the E-bike to ensure the accuracy of speed and distance display. Press “MODE” button to confirm then enter the speed limit setting interface.



## 7.2.4 Speed Limit Setting

“LS” means **speed limit**. The default maximum riding speed setting of the display is 25Km/h. Changing this value can set the maximum riding speed of the E-bike. When the electric power exceeds the set value, the controller will stop the power supply to the motor to protect the safe driving of the rider. The maximum speed setting value can be selected from 12Km/h to 40Km/h. You can modify by pressing [UP/DOWN](#) button. Long press “**MODE**” button to confirm and exit the setting interface.



## 7.2.5 Exit Setting

In the settings state, short press “**MODE**” button to confirm the input and enter the next setting; long press “**MODE**” button for saving the setting, then quit the setting state.

## 8. FAQ

Q: Why can't turn on the display?

A: Please check whether the battery is turned on or the leakage lead wire is broken

Q: How to deal with the error code display?

A: Contact the e-bike maintenance station in time.

## **9. Quality assurance and warranty scope**

I, Warranty Information:

- 1, King-Meter will be responsible for all faults arising during normal operation that are caused by a quality defect.
- 2, The warranty time is 24 months from the day the display leaves the factory.

II, The following are not covered by warranty:

- 1, Shell opened.
- 2, Connector damaged.
- 3, After display out of factory, the shell is scratched or damaged.
- 4, Lead wire of display scratch or break.
- 5, The fault or damage is caused by the force majeure (such as fire, earthquake, etc.) or natural disasters (such as lightning, flooding, etc.)
- 6, Product exceeded warranty period.

## **10. Software Version**

The instruction manual of this display is the operation manual of the general software version (version 1.0) of Tianjin King-Meter Technology Co., Ltd. The version of the display software used on some vehicles may be slightly different from this manual, and the actual version used shall prevail.

**Appendix 1: Error code definition**

Error code	Definition
31	Over-voltage protection
32	Under voltage protection
33	Controller power tube damage or over-current fault
34	Rotation-Clogging protection
35	Motor Hall failure
36	Motor phase cable failure
37	Throttle fault
38	Controller over temperature protection
39	Controller voltage failure
21	Abnormal assist failure
22	MCU self-check failure
23	Run-away failure
24	Pedel sensor failure
25	Speed sensor failure
26	Brake lever failure

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