KING-METER

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USERS GUIDE
Digital_II

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Content

User Instructions
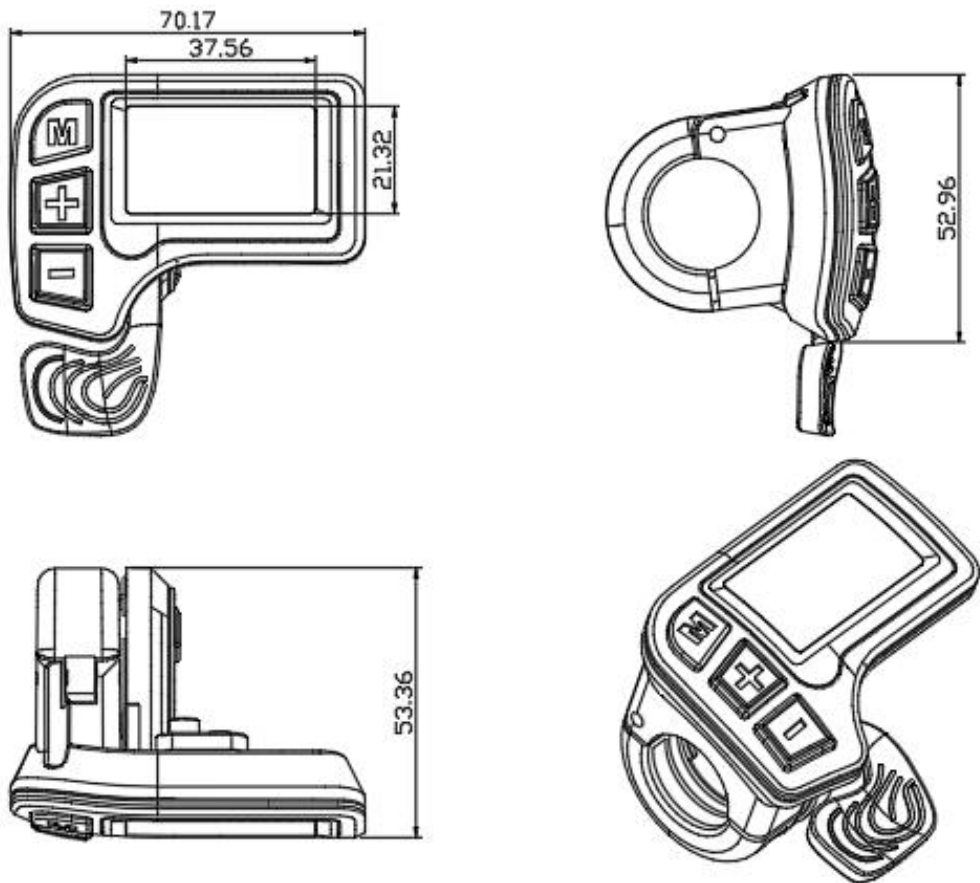
Dear users,

To better operate your e-bike, please read the manual for Digital II display carefully before use. We will use the most concise words to inform you of all the details (including the hardware installation, setting and normal operation use of the display) when using our display. Meanwhile, the introduction will also help you to solve the possible confusion and malfunctions.

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1. Appearance and Dimension

1.1 Material and Color

Digital II product shells are made of white and black PC materials. The material of the shell allows normal use at the temperature of -20℃ to 60℃ and can ensure good mechanical performance.

Physical drawing and size (unit: mm)

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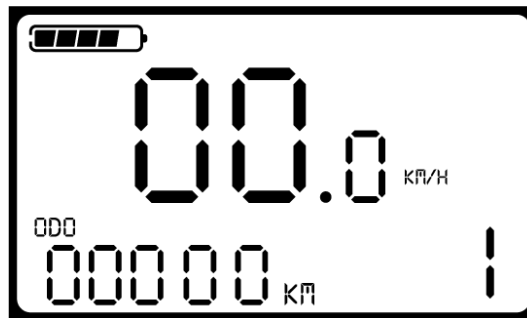
2. Function and Button Definition

2.1 Function description

Digital II provides you with a variety of function modes to meet your riding needs.
Its functions are as follows:
◆ Battery power indication
◆ Speed indication (including real-time speed, maximum speed and average speed)
◆ Distance indication (including trip distance and total distance)
◆ Single riding time indication
◆ Walk assist indication
◆ Backlight indication
◆ Error code indication

2.2 Active area

2.3 Button definition

In the following description, the [M] is replaced by the text 【MODE】.The [+] is replaced by the text 【UP】, the [–] is replaced by the text 【DOWN】.

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3.Operation Cautions

Pay attention to safety during use, and do not plug or unplug when the display is powered on.

Try to avoid bumping or colliding with the display

Do not release the waterproof sticker film attached to the display, to avoid impairing its waterproof performance.

Do not modify the parameters and settings of the display. Otherwise, the riding experience will be affected.

The display should be repaired as soon as possible in case of malfunction.

4. Installation Instruction

When the e-bike is powered off, you can insert the connector of the display and the corresponding connector of the controller to complete the installation, and adjust the display to a suitable angle.

5.User Settings

5.1 Power on/off

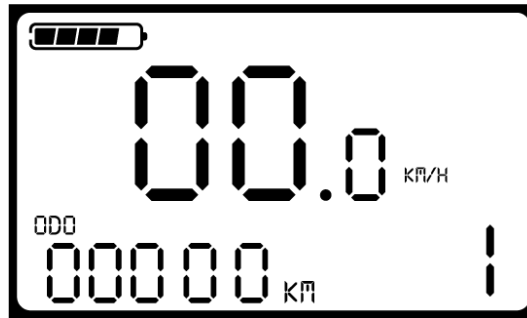After long pressing the 【MODE】 key, the display starts to work and provides the controller with working power. In the power-on state, long-press the 【MODE】 button to turn off the power of the e-bike. In the off state, the display no longer uses the battery power, and the leakage current of the display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

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

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5.2 User interface

5.3 Speed/Trip /ODO

After turning it on, the display indicates real-time speed by default. Long press the 【MODE】and【UP】keys to switch the display information. Displayed in order: real-time speed (unit: Km/h) → average speed (unit: Km/h) → maximum speed (unit: Km/h) → real-time speed.

After turning it on, the display indicates the total distance (unit: Km) by default. Short press the 【MODE】 key to switch the display information. Displayed in order: Running Total distance (unit: Km) → Single trip (unit: Km) → single riding time → total distance (unit: Km).
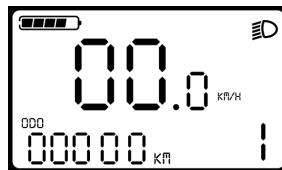
5.4Walk Assist

Press and hold 【DOWN】 >2 seconds, the e-bike enters the mode of power walk assist state. The e-bike drives at a constant speed of 6 km/h, and a 6KM sign flashes on display.

⚠ **"Walk Assist" function can only be used as pushing the e-bike by hand. Please don't use this function when riding.**

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5.5 Turn on/off the backlight

Press and hold【UP】 >2 seconds, the backlight is turned on, and the controller will be notified to turn on the headlights. When the outside light is low or at night while riding, the LCD backlight can be turned on. Press and hold the【UP】 key again for 2 seconds, the LCD backlight will be turned off.

5.6 PAS Level setting

Short press 【UP】 or 【DOWN】 to switch the PAS level and change the motor output power. The default output power of the display is 1-5, the default level when the display is turned on is level 1.

5.7 Battery indication

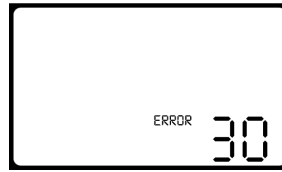When the battery voltage is high, the five-segment LCD is on. When the battery is under-voltage, the outer frame of the battery flashes, indicating that the battery is seriously low and needs to be charged immediately.

Low Voltage Flash

6. Error code

When the e-bike electronic control system fails, the display will automatically indicate the error code. For the definition of detailed error codes, see appendix 1.

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ERROR 30

⚠ The fault can only be exited when the fault is eliminated, and the e-bike cannot continue to drive after a fault occurs.

7. User setting

7.1 Preparation before starting

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

7.2 General setting

Long press 【MODE】 to turn it on. When the display is turned on, press 【UP】 and 【DOWN】at the same time for 2 seconds,the interface will enter the general setting.

7.2.1 Reset trip distance

Under the condition of zero speed, press and hold the【MODE】 and【DOWN】 keys simultaneously for 2 seconds to reset the single trip and single riding time at the same time.

7.2.2 Wheel Size Setting

Wheel diameter can be set as 16inch, 18inch, 20inch, 22inch, 24inch, 26inch, 700C, 28inch, 29inch.

⚠ Select the e-bike wheel size by pressing 【UP】 /【DOWN】, to ensure the accuracy of the display speed and the trip distance. Short press 【MODE】 to confirm and enter the speed limit setting interface.
The default speed limit of the display is 700C.

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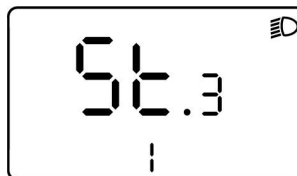Fax：+0086 022 8478 0358 Tel: +0086 022 8478

```
St.1
700C
```

7.2.3 Speed Limit Setting

The default maximum riding speed of the display is 25Km/h. Changing this value can set the maximum riding speed of the e-bike. When the e-bike exceeds the set value, the controller will stop the power supply to the motor to protect the safety driving of the rider. The optional range of max speed setting value is between 12Km/h to 40Km/h. Set by pressing 【UP】/ 【DOWN】. After finishing the modification, long-press 【MODE】 to save and exit the setting.

```
St.2 KM/H
25
```

7.2.4 Backlight brightness

The parameter 1、2、3 means the backlight brightness. The default value is 1. Change the backlight brightness parameter by 【UP】/【DOWN】 and 1 is the darkest, 3 is the brightest.

```
St.3
1
```

7.2.5 KM Mile switch

The default factory setting of this display is KM, and the metric system can be adjusted to MILE by short pressing【UP】/【DOWN】.

```
 5t.4
      KM
```

7.2.6 Exit setting

In the setting state, short press the 【MODE】 key to confirm the input and enter the next setting; long-press the 【MODE】 key to save and exit the setting state.

7.2.7 Throttle Function Setting

The display gear only controls the power assist but not the Throttle, and the level 0 gear does not have the throttle and assist.

8. FAQ

Q: Why the display is not able to start up?
A: Check if the battery is turned on or if the external lead is broken.

Q: How to deal with the error code?
A: Go to the maintenance center for repair immediately.

9. Warranty

9.1 Warranty information:

9.1.1 For any faults caused by product oneself quality problems during normal use,

we will be responsible for a limited warranty within the warranty period.

9.1.2 The warranty period is 24 months as of delivery.

9.2 The following case was not within the scope of the warranty

9.2.1. The housing is open.

9.2.2. The connector is damaged.

9.2.3. The housing is scratched or damaged at delivery.

9.2.4. The cable is scratched or broken.

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

9.2.6. Expired warranty

10. Version

This Users Guide is prepared for general-purpose software (V1.0) of Tianjin King-Meter Electronic Co., Ltd. The version of software used on some bikes may be slightly different, which should depend on the actual version in use.

Appendix 1：Error code table

Error Code	Definition
21	Controller failure
22	Throttle abnormal
23	Motor phase
24	Signal of motor hall abnormal
25	Brake abnormal
30	Communication abnormal

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