



The eBike Display  
**User Manual**

**KD718**

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## Product model

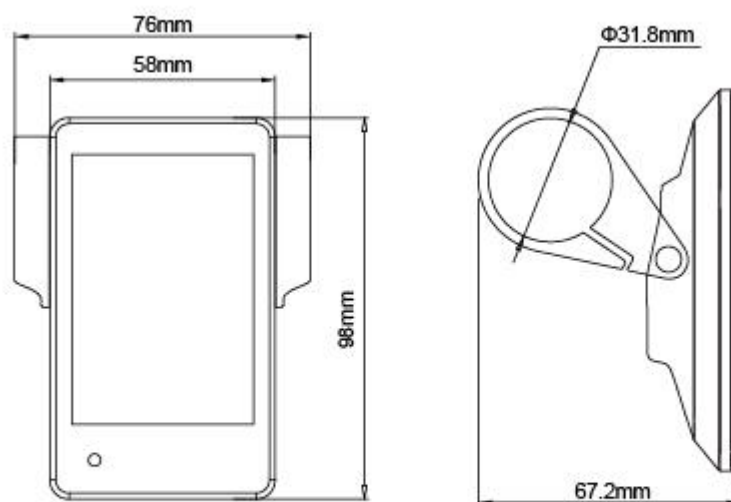
Intelligent TFT display for E-bike; model: KD718

## Specifications

- 24V/36V/48V Power Supply
- Rated working current :10mA
- The maximum working current: 30mA
- Off leakage current: <math><1\mu\text{A}</math>
- Operating temperature:  $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$
- Storage temperature:  $-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$

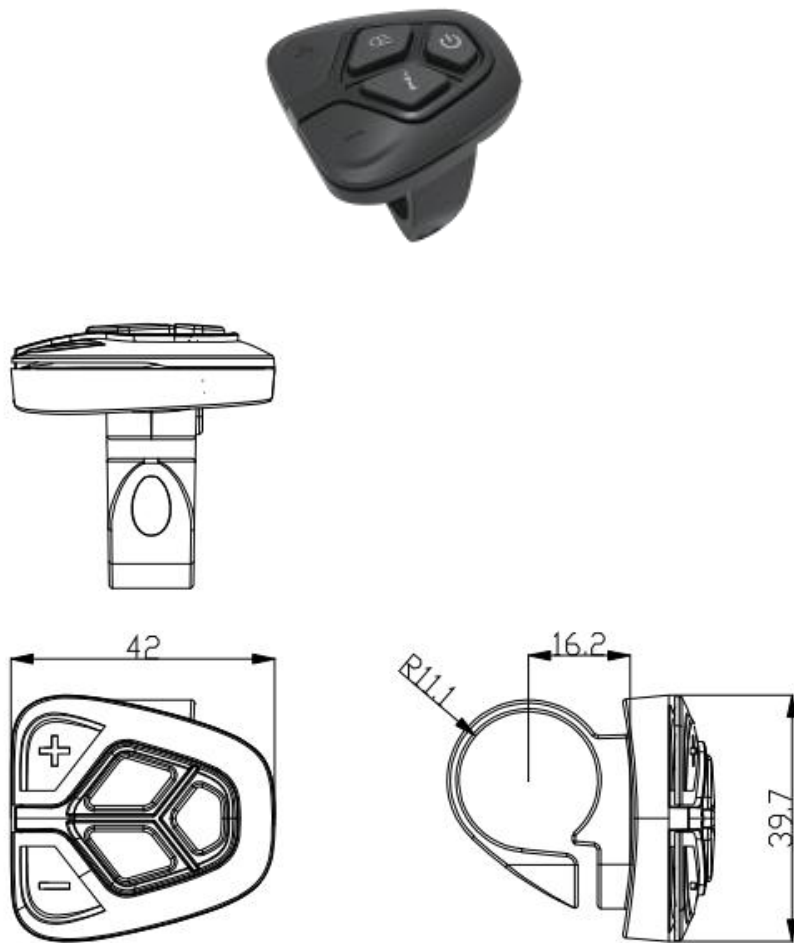
## Appearance and Size

Display appearance and dimension drawing (unit: mm)



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Remote appearance and dimension drawing (unit: mm)



## Function Summary

KD718 can provide a lot of functions to fit the Users needs. The indicating contents are as follows:

- Battery and battery percentage indication
- Motor Power indication
- Assistance-level indication
- Speed indication (incl. running speed, Max. speed and Ave. speed)
- Odometer and trip distance
- The push-assistance function
- Trip time indication
- Backlight On/Off
- Error code indication
- USB connection indicator
- Various Parameters Settings (e.g., wheel size, speed-limited, battery level bar, assistance level, controller limited current, password enable, etc.)

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## General Operation

### ◆Switching the E-bike System On/Off

Press the power button to switch on the E-bike system.

To hold the power button for 2s, the E-bike system will be switched off. The E-bike system no longer uses the battery power.

When switching off the E-bike system, the leakage current is less than 1  $\mu$ A.

■When parking the E-bike for more than 10 minutes, the E-bike system switches off automatically.

### ◆Display Interface

After switching on the E-bike system, the display will show Speed and Trip Distance as default. Pressing the “i” button to switch between following elements:


Trip (Km) → ODO (Km) → Max. Speed (Km/h) → Avg. Speed (Km/h) → Time (Min.) .



Display Indication Cycle Interface

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### ◆ Switching Push-assistance Mode On/Off

To activate the push-assistance function, hold the “-” button. After 2s, The E-bike's drive is activated at a uniform speed of 6 Km/h while the screen displays “”. The push-assistance function is switched off as soon as you release the “-” button on the operating unit .The E-bike system stops the power output immediately.




Push-assistance Mode

■ Push-assistance function may only be used when pushing the E-bike.

Be aware of danger of injury when the wheels of the E-bike do not have ground contact while using the push-assistance function.

### ◆ Switching the Lighting On/Off

To switch on the headlight, press the “” button. The backlight brightness is automatically reduced. Press the “” button again, the lighting can be switched off.



Switching the Lighting Mode On/Off Interface

**◆ Assist Level Selection**

Briefly press "+" or "-" button to switch between assistance levels so as to change the motor output power, The default assistance level ranges from level “0” to level “5”, The output power is zero on Level “0” . Level “1” is the minimum power. Level “5” is the maximum power. When you reach “5” , press the "+" button again, the interface still shows “5” , and blinks at “5” to indicate the power highest. After the power downshift reaches “0” , press the "-" button again, the interface still shows “0” and blinks at “0” to indicate the power minimum. The default value is level “1” .



Assist Level Interface

**◆ Battery SOC Indicator**

The five battery bars represent the capacity of the battery. The five battery bars are bright when the battery is in high voltage. When the battery is in low voltage, battery frame will flash at the frequency of 1HZ to give a notice that the battery needs to be recharged immediately.



Battery SOC Indication Interface

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### ◆Motor Power Indicator

The power of the motor can be read via the interface, the lower blue rim.



Motor Power Indication Interface

### ◆USB connection indication (optional)

When the display is inserted into a USB external device, the display interface will show as below.



USB Connection Indication Interface

### ◆Error Code Indication

The components of the E-bike system are continuously and automatically monitored. When an error is detected, the respective error code is indicated in text indication area.

Here is the detail message of the error code in **Attached list 1**.



#### Error Code Indication

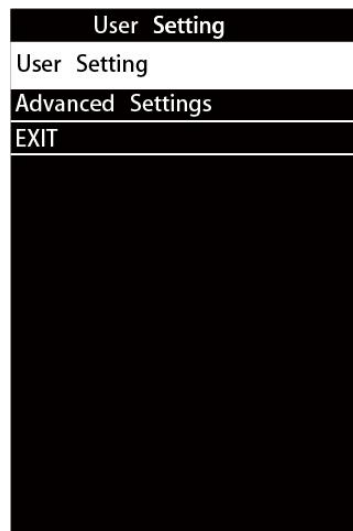
■ Have the display repaired when error code appears. Otherwise, you will not be able to ride the bike normally. Please always refer to an authorized dealer.

## Settings

Press the power button to turn on the display,

To access settings menu, hold both the “+” button and the “-” button for 2s.

**User settings** and **Advanced settings** are listed:



Settings interface

■ All the Settings are operated on a parked e-bike.



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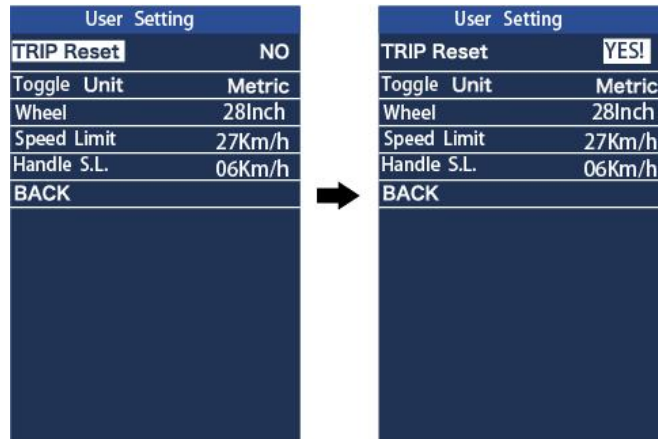
### **User settings:**

#### **◆ Trip Reset**

Trip Reset represents trip distance clearance setting.

To reset trip distance, press the “+” button or the “-” button to select the Yes or No. Yes represents clearing a trip distance. No represents not clearing a trip distance.

To store a changed setting, press the “i” button. The default value is NO.



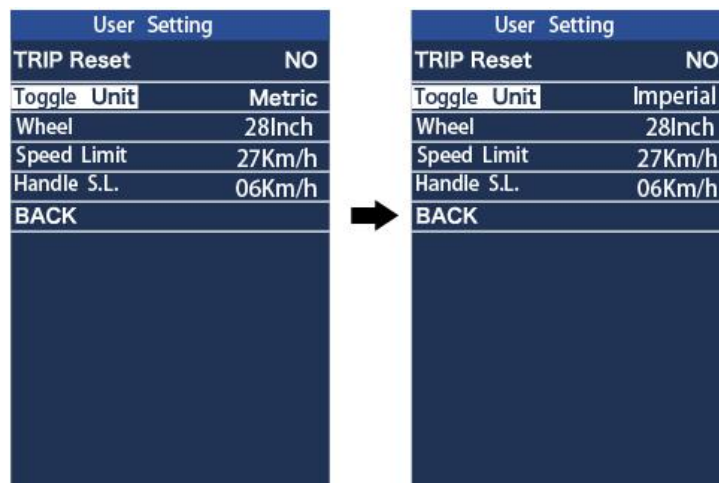
Trip Reset Interface

#### **◆ Toggle Unit**

Toggle Unit represents unit conversion settings.

To toggle the unit, press the “+” button or the “-” button to choose the desired unit, and then press the “i” button to confirm.

To store a changed setting, press the “i” button. The default value is “Metric(km)”.




Toggle Unit Interface

### ◆ Wheel Diameter Settings

Wheel Diameter represents wheel diameter settings.

To change basic settings, press the “+” or the “-” button to increase or decrease until the desired value is displayed.

To store a changed setting, press the “i” button. The default value is 28 inch.



User Setting	
TRIP Reset	NO
Toggle Unit	Metric
Wheel	28Inch
Speed Limit	27Km/h
Handle S.L.	06Km/h
BACK	

User Setting	
TRIP Reset	NO
Toggle Unit	Imperial
Wheel	30Inch
Speed Limit	27Km/h
Handle S.L.	06Km/h
BACK	

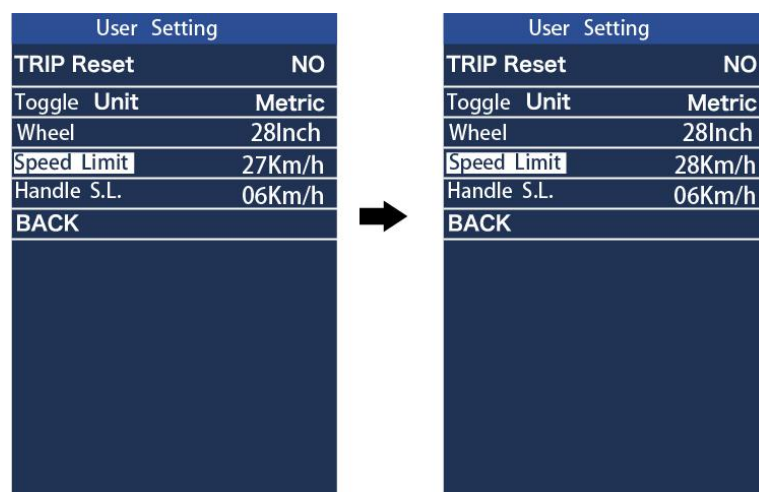
Wheel Diameter Settings Interface

### ◆ Speed Limit Settings

Speed Limit represents the limited speed settings. When the current speed is faster than speed limit, the E-bike system will switch off automatically. Speed limit range is 15Km/h to 99.9Km/h.

To change basic settings, press the “+” or the “-” button to increase or decrease until the desired value is displayed.

To store a changed setting, Press the “i” button. The default value is 27 Km/h.



User Setting	
TRIP Reset	NO
Toggle Unit	Metric
Wheel	28Inch
Speed Limit	27Km/h
Handle S.L.	06Km/h
BACK	

User Setting	
TRIP Reset	NO
Toggle Unit	Metric
Wheel	28Inch
Speed Limit	28Km/h
Handle S.L.	06Km/h
BACK	

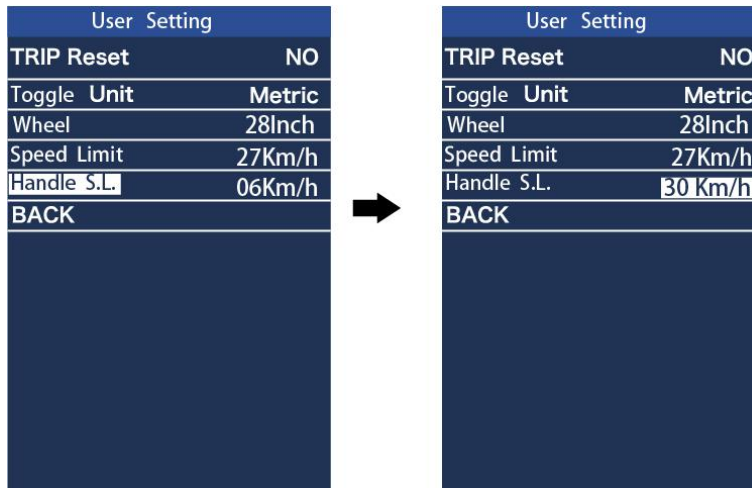
Speed Limit Settings Interface

**◆ Throttle speed limit settings:**

Handle S.L. represents throttle speed limit. The optional values are 6/25/30/99.9 km/h.

To changed the basic settings, press the “+” or the “-” button to increase or decrease until the desired value is displayed.

To store a changed setting, Press the “i” button. The default value is 06 Km/h

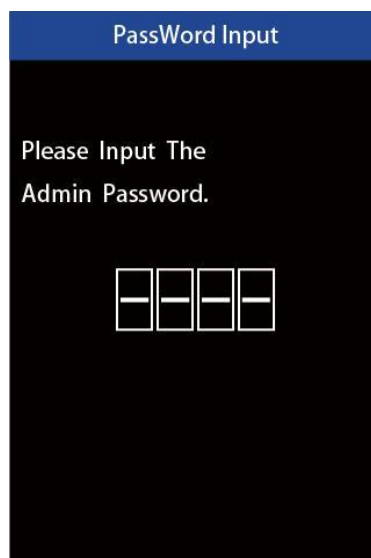


Throttle speed limit settings

**\* After User settings are done, press BACK to return to Settings interface.**

***Advanced settings:***

Input the correct password to enter the advanced settings interface. The default password is 1212.



Password Input Interface

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### ◆ Assist Levels settings

Assist levels represents assist level mode settings, 8 modes to select: 0-2, 1-2, 0-4, 1-4, 0-6, 1-6, 0-8, 1-8. The default value is 0-6.

To change the mode of assist level, press the “+” or the “-” button to choose the desired mode, and then press the “i” button to confirm.



Assist Level Mode setting Interface

### ◆ LCD luminance settings

LCD luminance represents backlight brightness settings. The default is 100%.

To change the backlight brightness, press the “+” button or the “-” button to choose the desired percentage.

To store a changed setting, press the “i” button.



LCD Luminance Settings Interface

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### ◆ Set Voltage settings

Set Voltage represents battery power bar settings. 5 voltage values must be entered one by one. For example, VOL 1 is first bar voltage value. The default value is 41.5V.

To set battery power bar, press the “+” or the “-” button to increase or decrease the value. To store a changed setting and access the second bar, press the “i” button.

After 5 voltage values are entered completely, press the “i” button to confirm and save the settings.



Battery Settings Indicator Interface

■ If there is not any operations in one minute, the display will exit the settings state.

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## Quality Assurance and Warranty Scope

### I Warranty

- 1).The warranty will be valid only for products used in normal usage and conditions.
- 2).The warranty is valid for 24 months after the shipment or delivery to the customer.

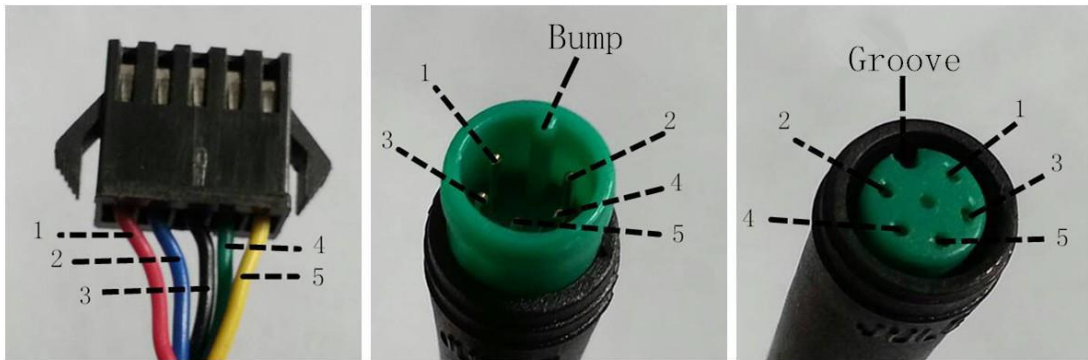
### II Others

The following items do not belong to our warranty scope.

- 1).The display is demolished.
- 2).The damage of the display is caused by wrong installation or operation.
- 3).Shell of the display is broken when the display is out of the factory.
- 4).Wire of the display is broken.
- 5).The fault or damage of the display is caused by the force majeure (e.g., fire, earthquake, etc.).
- 6). Beyond Warranty period.

### ◆Connection Layout

Connector wire sequence



Controller side Connector

Display-side connector

mating connector

Wire sequence table

Wire No.	Color	Function
1	Red (VCC)	+
2	Blue (K)	Lock
3	Green (RX)	-
4	Yellow (TX)	RX
5	Green (RX)	TX

■Some wire use the water-proof connector, users can not see the inside color.

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## Operation Cautions

- Be cautious. Don't attempt to release the connector when battery is on power.
- Try to avoid hitting.
- Do not modify system parameters to avoid parameters disorder.
- Make the display repaired when error code appears.

*\*This manual instruction is a universal version for **DISPLAY KD718**. Some versions of this display may be different from specification to specification as to the software.*

*Please always refer to an actual version*

Attached list 1: Error code definition

Error code	Definition
21	Current Abnormality
22	Throttle Abnormality
23	Motor Abnormality
24	Motor Hall Signal Abnormality
25	Brake Abnormality
30	Communication Abnormality