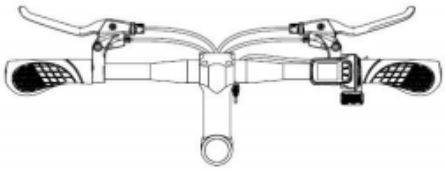
BMSBATTERY
Blue My Sky

124DX INSTRUCTIONS

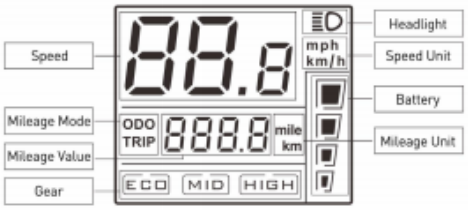
User Guide

♦ It can be installed and used normally according to the operation instructions，The Display have three buttons, " " Long press for turn on/off，short press for light on/off. " " is ODO、TRIP、Voltage、Faulty code switching。" M " speed level switching. Press all three buttons will enter into the setting Menu

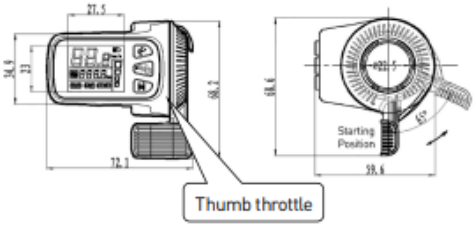
♦ This model can be combined with thumb throttle, half throttle and full throttle. Which can applied to scooter , E-bikes and simple e bikes. Installation effect (Figure 1)

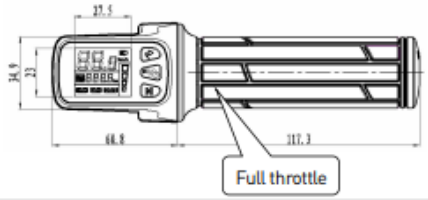


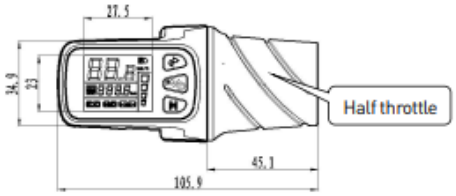
一：Display interface (Figure 2)



二：Dimension Figures of display、 thumb throttle、full throttle、half throttle (3、4、5)

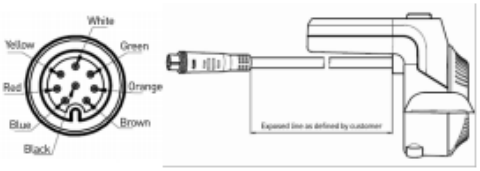






Wire Definition

124DX is connected with 8 wires，wire definition is as below. The connector is customized.

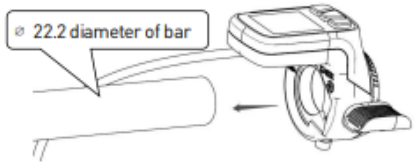


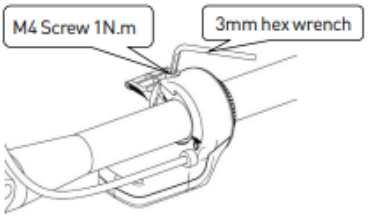
8 wires regular cable ⌀ 4.0	
Color	Function
Brown	VCC+
Black	GND
orange	Key+
Green	RX
Yellow	TX
Red	5V+
white	SP
Blue	5V GND

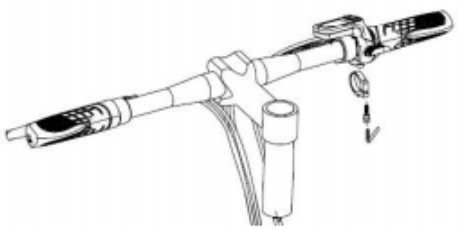
8 wires waterproof cable	
Red	+5V
white	Signal
blue	GND
brown	36V+
orange	Key signal
Black	GND
Green	RX
Yellow	TX

Installation Instruction

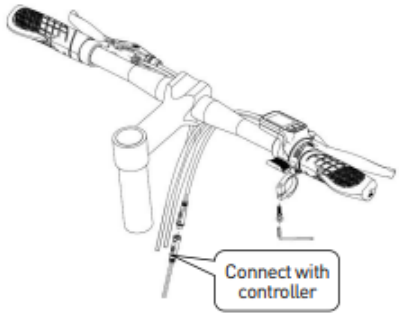
① Installing the display on the handle bar with 3mm hex wrench and fastening the M4 screw







②After the installation，connect the display with controller.



Button Definition

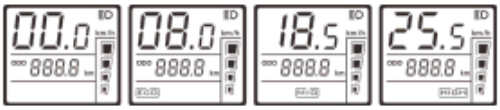
On/Off：，Setting ，Speed level M：

1.On/Off

Keep the connecting status of display and controller，Press for 2s when the display is off，then we enter the main interface；When the display is on, Press for 2s to switch it off.

2. Speed level switching

Short press M to switch the speed level and speed mode，including three kinds of mode ECO、MID and HIGH, the display started with 0 level（no icon），without power.（The power level shows as below）



3. Display information switching

Short-press the button for cycle switching the subtotal mileage, total mileage, fault monitoring: subtotal mileage（TRIP）-> total mileage（ODO）->voltage -> fault monitoring （0000）. The mode switching interfaces are as follows:

4.Light Switch

Short- press the button ，for turning on the headlight（need the support of controller），the headlight icon in the display interface will be lighten up, short-press the button for turning off the headlight, and the headlight icon will be gone out.

5. Battery level display

The battery level is normally divided into 4 squares according to the change of battery capacity. When the battery level reaches the under-voltage warning value, the last squares will twinkle to remind the users to charge immediately. The battery level is shown as the following figures:

The Battery Capacity（C) percentage is allowed ±0.5V

Battery Percentage	Battery Level	24V	36V	48V
C<5%		U<23.1	U<33	U<42.9
5%<C<30%		23.1<U<24.5	33<U<34.8	42.9<U<45.5
30%<C<50%		24.5<U<25.5	34.8<U<36.7	45.5<U<47
50%<C<70%		25.5<U<27	36.7<U<38.5	47<U<50.1
C>70%		U>27	U>38.5	U>50.1

User Setting

General setting item: backlight brightness, unit setting, voltage setting, voltage setting, auto-shutdown time, wheel diameter information and speed limit etc.（other setting items are associated with the controller or have defaulted, the specific setting according to the customers' requirements, we can open the user setting options.

1. Enter the Setting Interface

Press the buttons" " and " M " for 3 seconds，Press" " for switching the parameters（Speed range P01 ~ P25，ODO parameters），Press" " or " M " to set the Parameters. Press the button" " when you are

finished setting.

2. Backlight brightness setting

Enter the setting interface the mileage position will show P01, means you can view the backlight brightness value, factory default: : 8, indication range: 0-9, 0 means turning off the backlight. (specific interface is as follow)

3. Unit setting

Enter the setting interface then adjust the value to P02 for view the unit mode, to switch kilometre/mile mode, factory default : Indication range:'0, 1''

0: kilometre unit (KM, KM/h)

1 : mile unit [mile, mph]

4.voltage setting

Enter the setting interface then adjust the value to P03 for view the voltage mode, factory default: 36V

Indication range: '24,36,48 , 60', unit: V

5.Automatic sleeping time setting

Enter the setting interface then adjust the value to P04 for viewing sleeping time. factory default:10 minutes

Indication range:'0-255', unit: minute

When the value is 0 means turning off sleep mode

6. Wheel diameter setting

Enter the setting then adjust the value to P08 for viewing the wheel diameter, factory default: 8.0 inch, indication range:'1.0-50.0', unit: inch

7. Speed limit setting

Enter the setting interface then adjust the value to P10 for viewing the speed limit setting, factory default value: 128 Indication range:'0-255' (The speed limit of the Bafang agreement is set by the controller.)

8. Exit setting

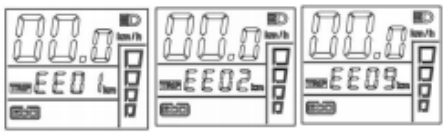
Press the buttons " " and M " about 3s at the same time for exiting the setting mode.

Fault Solution

♦ Short-press the button " " At the normal operation interface for cycle switching the following functions:

♦ ODO(total mileage) → TRIP(single mileage) → battery level → throttle Hall value → default error → ODO(total mileage)

♦ Under the fault code interface, if there is any thing wrong with the vehicle, the corresponding fault code will flash.



Faulty Code :

'EE-1' means the display cannot receive the data from controller or the received data is wrong.

'EE-2' means the controller cannot receive the data from display or the received data is wrong currently.

'EE-3' means the controller has failed currently.

'EE-4' means the motor Hall has failed currently.

'EE-5' means the motor phase fault currently

'EE-6' means the throttle has failed currently. 'EE-7' means the brake has failed currently.

'EE-8' means the power-assisted sensor has failed currently.

'EE-9' means the motor is under-voltage protection currently.

Care and Maintenance

♦ It is necessary to check the wiring state of the display regularly。

♦ To check regularly whether the buttons and the moving parts are spring-back normally, and whether the decorations, fixed collar and screw are loose.

♦ To wipe the screen regularly, and keep the screen clear.

Attention

♦ Don't knock on the LCD window area to avoid the LCD or the shell from cracking to cause water or electric leakage. Pay attention to the safety of use.

♦ Try to avoid using it in bad weather (heavy rain, heavy snow, blazing sun exposure.

♦ Do not plug or pull the connector when the display is power on to avoid the display being burned out.

♦ Don't soak the display all in the water, and don' t make the display contact with fire source.

♦ The wiring of display should according to the wring definition.

♦ When the instrument cannot be used normally, it needs to be repaired in time.