

Manual

OMT-M3 Ebike Intelligent Display

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1. Material&Dimension

1) Material

Caser and Cover and Press button: ABS,

LCD window: PMMA

2)Outside and mounting dimension(mm)



3) Connection diagram:



Wire definition:

Red: Power supply-VCC

- Blue: Electronic lock-DS
- Black: GND
- Green: Data RXD
- Yellow: Data TXD
- BROWN: Head light(+) -DD
- White: Head light(-)-GND

Remark: Connectors and Wire colors could be customized

5) Installation

• Install the display in the middle of handlebar, then adjust

to suitable angle, install the press button to left side of handlebar.

• Power off the device, connect the device to controller.

• Power on



2. Overview of OMT-M3

1) UART protocol:

Equipped with independent press buttons

2) Speed:

Real-time SPEED, MAX SPEED, Average SPEED

3) kmh/mile:

Kmh/MPH according to habit

4) Battery level:

Indicates the battery level in real time

5) Back light control:

Press button for 3 seconds to power on/off

6) Back light adjustment:

3-level adjustment

7) Assist level:

From 1 to 3, press button to change assist level.

8) Distance:

ODO/Trip/Driving duration

9) Error code:

Please refer to appendix table 1 for definition

10) 6km mode:

In this mode, it will display 🕅 on the screen.

11) Parameter setting:

Set parameters, such as: wheel size, speed limit etc



1) Battery level: 5 levels, voltage interval could be customized

- 2) Speed: Average SPEED/MAX SPEED/Real-time SPEED
- 3) Speed unit: Kmh/MPH
- 4) 6km mode: 6km mode Display
- 5) Assist level: actual assist level 1~3.
- 6) Back light icon: indicates when back light are on.
- 7) Distance: Trip/ODO.
- 8) Error code: "REE" and code when there is error

4. Press button definition

OMT-M3 uses independent press button, in total three buttons:



5. Operation instructions

1) Power ON/OFF

When the power is off, Long press O (Power) during 3 seconds, screen will display all contents and start to normal working mode, and controller will be turned on When the power is on, Long press O (Power) during 3 seconds, screen will be powered off, and controller will be turned off. If no any operation both on bike and display during 10 minutes (time could be set), the display will turn off automatically, in this case, no power consumption for both display and controller.



Figure 2

2) Different Speed display:

Long press and and o switch different speed information, Real time speed (SPEED) → Max speed (MAX SPEED) → Average speed (AVGSPEED)



Figure 3







3)ODO/TRIP/ Driving Time/Error Code

Short press to switch ODO/TRIP/ Driving Time/Error Code Trip(Single trip distance) \rightarrow ODO(Accumulated distance) \rightarrow

 $TM(Driving Time) \rightarrow REE(Error Code)$.



Figure 6



Figure 8



Trip

Figure 7



Error Code

Figure 9

4)Assist level



level 1



Figure 10



5) Back light control



Bike Light On Bike Light Off



6) 6km mode

When the bike is stopped, long press igsqcup i , will enter 6km/h mode,

the speed will be $4.5^{-7.5}$ km/h according to different road conditions, " $\overset{\wedge}{\sim}$ " will show up on screen, long press again or short press O, will quit 6km/h mode. Long press or short press could be customized by clients.





6. Parameter setting

When the display is powered on, long press

enter parameter setting mode Figure 14, in this mode, can

change parameter values, long press again

quit parameter setting mode or no operation during 10s will also quit this mode.

In parameter setting mode, short press



 $[\bigtriangleup]$

and 🔽

will

change parameter value, short press value and switch to next parameter.

1) P01-back light lightness:

short press



will switch from 1 to 3, Level 3 is lightest.

will save current

U

Level 2 is default value.





2) PO2-kmh/MPH:



3) P03-Working voltage:



is 36V.





4) P04-Auto shutdown time:



minutes) to shut down the screen automatically if no operation 0

means never shut down, Default value is 10 minutes





5) P05-Number of Assist levels:



- 0: 3 assist levels
- 1: 5 assist levels
- 2: 9 assist levels



Assist Level



Assist Level

Figure 20

6) P06-Wheel size selection:



0.1 inch



Figure 21

7) P07-Number of magnets for speed sensor:







8) P08-speed limit:



100 means no limit.



Figure 23

9) P09-Non-zero speed start:



start,1:non-zero speed start.



10) P10-Driving mode selection:

short press \square / \square to switch from 0->1->2.

- 0: Assist mode (throttle does not work, only assist);
- 1: Electrical driving mode(only throttle works, assist does not work);
- 2: Both assist and Electrical driving mode(Not available if in zero speed

start and electrical driving mode);





11) P11-assist sensitivity setting:







12) P12-assist starting power setting:





13) P13-Assist magnetic disc types



 \square / \square to switch from 5->8->12, different

numbers of magnets.





14) P14-Current limit for the controller:



short press / 🔽 to switch from 1 to 20A



Figure 29

15)P15-low voltage protection for controller



Figure 30

16) P16-Reset ODO distance:



short press 🙆 / 🖸 to switch from 120 to 1000 RPM



19) P19-PAS Magnet calibration for the controller:





Figure 35

20) P20-Number of magnets for freewheel speed sensor:





short press / 🔽 to switch from 0 to 20



7. Specifications

- 1) Power supply: 24V,36V,48V
- 2) Rated current: 10mA
- 3) Max current: 30mA
- 4) Leakage current after power off: <1uA
- 5) Current supply to controller:50mA
- 6) Working Temperature: -18~65°C
- 7) Storage temperature: $-30^{\circ}80^{\circ}C$

8. Error code definition

When an error appears, OMT-M3 will notice users by different

codes, please refer to table 1 for different codes:

Code	Signification	
(Decimal)		
0	Normal	
6	Low Battery level	

7	Motor error	
8	Throttle error	
9	Controller error	
10	UART receive error	
11	UART receive error	

Table 1

9. Notices

Power on and power off must keep an interval of at least 3 seconds,

please don't press "" button frequently when it is powered off. When the temperature is under -10 °C, the screen will be a little darker than normal, when the temperature increases, the screen can go back to normal

10. FAQ

- 1) Q: Why I can not power off?
 - A: Please check connection between display and controller.
- 2) Q: What can I do if an error code displays?
 - A: Find a nearest shop to get repair

11. Warranty

1 year of warranty for quality issue except frame is broken.

12. Version

This is a universal manual for OMT-M3.It could be customized by

each client. Please confirm all details before purchasing.