INSTALLATION MANUAL

LCD display C965

EVLCD-CMS-C965

Contens:

1/ INFORMATION

2/ BASE SETTINGS

3/ ADVANCE SETTINGS

4/ ERROR CODES

5/ INSTALATION

Thank you for purchasing EVBIKE product and we hope that you will become a happy user. **Carefully read the entire manual prior to installation and first use!** If you find any fact in the manual that would prevent you from using our product, please contact your reseller for further discussion and keep the original packaging. The reseller will advise you how to proceed properly.

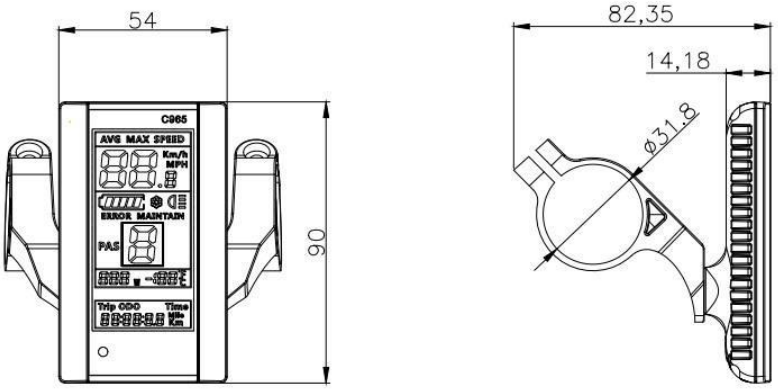
ELECTRICAL PARAMETERS

- 36V/48V battery supply
- Rated operating current: 10mA
- Max operating current : 30mA
- Off leakage current < 1uA
- Buzzer tone > 55db (20cm)
- Output current to the controller : 50mA
- Operating temperature : -18°C ~ +60°C
- Storage temperature: -30°C ~ +70°C

DIMENSION & MATERIAL

Product shell is ABS, transparent window is made with high strength Acrylic, the stiffness equals the tempered glass.

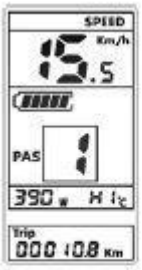
- Dimensions : host/L90mm*W54mm*H13.3mm



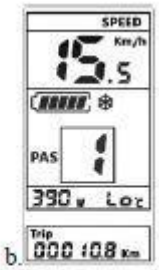
- Dimensions : host/L36mm*W36mm*H13mm

FEATURES

- Two-way serial communication, 5-way button, very easy to operate.
- **Speed display:** AVG SPEED, MAX SPEED, real time SPEED.
- **Kilometer / Mile:** Can be set according to customers' habits.
- **Smart battery indicator:** Provide a reliable battery indicator, it will not fluctuate
- with the motor on/off.
- **Automatic headlamps & background ligh :** 800U can automatically open/close the headlamps & backlight according to the external light.
- **Buzzer remind**: Built-in buzzer, sound alert in multi-state, such as Key tone / Low temperature warning / Low battery indicator / Failure warning…
- **Temperature display**: Indicate ambient temperature, indication range is -20℃~50℃, higher than
- 50℃ will display **HI**, lower than -20℃ will display **Lo**.

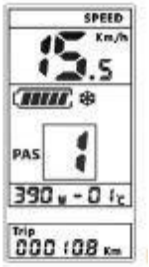


a. >50℃



b. <-20℃

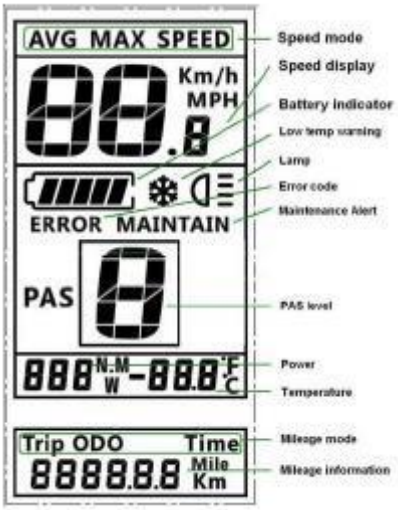
- **Maintain remind :** 800U can indicate the maintain information according to the battery cycle times and the riding mileage(ODO). 800U can estimated the battery cycle life .
- **Low temperature warning :** 800U can alarm the user by LCD&BUZZER when the temperature is below freezing.



Low temperature warning

- **The brightness of the backlight adjustable :** 5-sections
- **9-level ASSIST :** 3-ASSIST/5-ASSIST/6-ASSIST/9-ASSIST optional
- **Power indicator :** Real-time battery output power indication
- **Mileage indicator :** Odometer/Trip distance/ Riding time
- **Parameter settings :** Multiple parameter can be set through computer USB port, including ASSIST level / Wheel diameter / Voltage / Speed limit / Magnetic steel / Number of halls…
- **Error code indicator**

LCD INSTRUCTION:



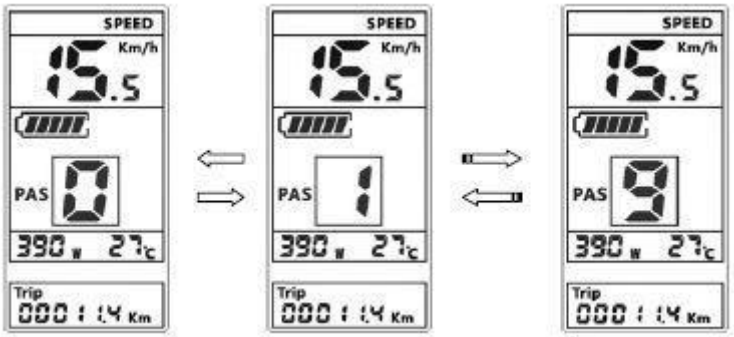
FUNCIONAL DESCRIPTION

Power On/Off

Press and hold Power button for 1 second can turn on/off the Display. The Display will automatically shut down when there is no operate & ride for 5 minutes.

ASSIST operating

Short press UP/DOWN button can change the ASSIST level. Top ASSIST level is 9, 0 for neutral. Level quantities can be adjusted according to the customer requirements.



Speed mode switch

Short press LEFT button can change the speed mode, **Speed**->**AVG Speed**->**MAX Speed**.

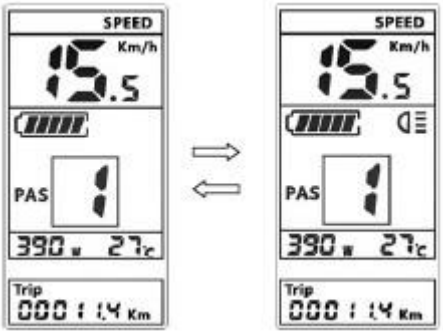
***If there is no operation for 5 seconds, the display will return Speed (Real-Time) display automatically.**

Mileage mode switch

Short press RIGHT button can change the mileage mode, Trip->ODO-> Time.

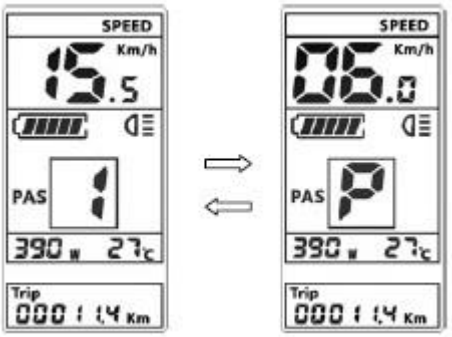
Headlight / backlight On / Off

Press and hold UP button for 1 second can turn on/off the headlight/backlight.



6 km - walk

Press and hold DOWN button for 1 seconds can get into 6km walk mode, out of the mode when release the button.

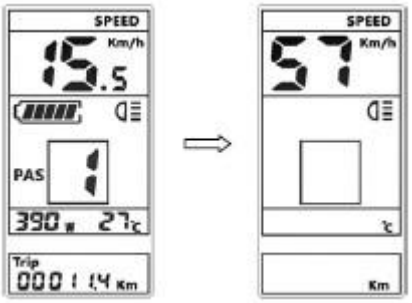


Data cleanup

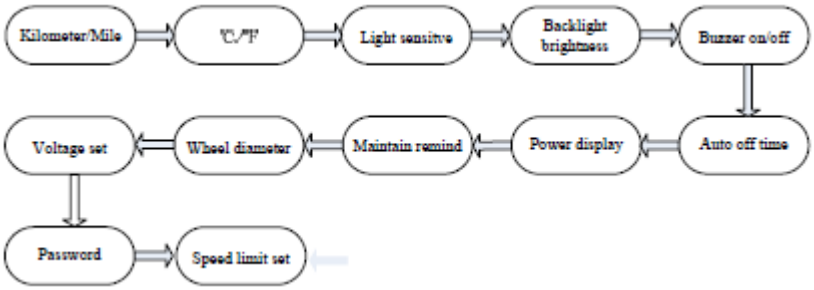
Press and hold RIGHT button for 1 seconds can cleanup the several temporary data, the temporary data include **AVG Speed / MAX Speed / Trip / Time**.

PARAMETER SETTINGS

Double press POWER button(press interval less than 0.3 second), the Display get into parameter setting state, the current parameter flashing, short press UP/DOWN buttons to set the parameter values, short press LEFT/RIGHT buttons to switch the parameters, short press POWER button to exit the parameter setting state. The display will automatically exit the parameter setting state when there is no operation for 10 seconds.

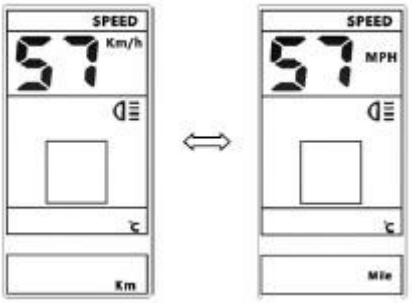


The order of parameter settings are as follows:



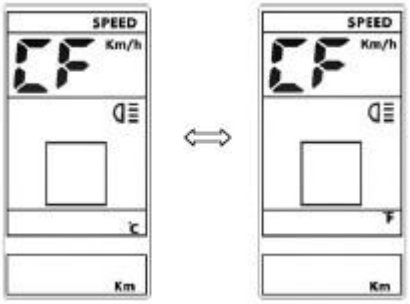
Kilometer / Mile

The location of speed display symbol S7, press UP/DOWN button rotate display the symbol **km/h / MPH** (**Km** / **Mile**).



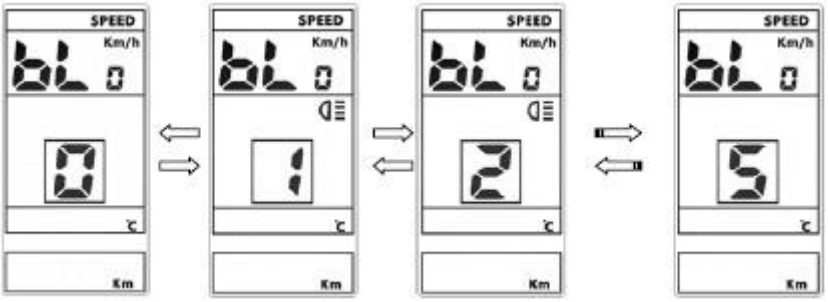
Temperature

℃ **/**℉ : the location of speed display symbol **CF**, press UP/DOWN button rotate display the symbol ℃ **/** ℉.



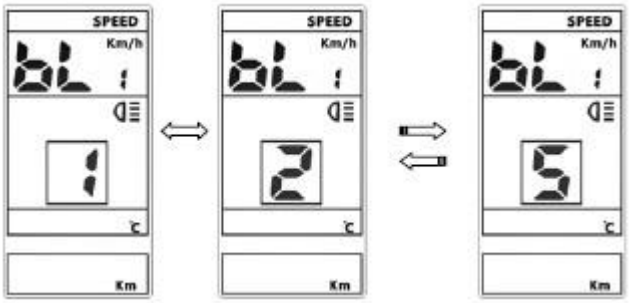
Light sensitive

The location of speed display symbol **bL0**, press UP/DOWN button display symbol **0~5** , **0** indicate automatic headlight/backlight OFF. **1~5** indicate automatic headlight/backlight ON. **1** indicates the brightest on (auto turn on the backlight at bright environment), **5** indicates the darkest on (auto turn on the backlight at dark environment).



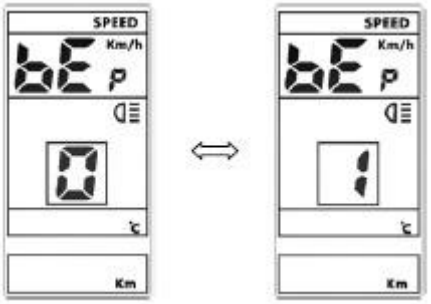
Backlight brightness:

The location of speed display symbol **bL1**, press UP/DOWN button display symbol **1~5** to change the brightness of the backlight.



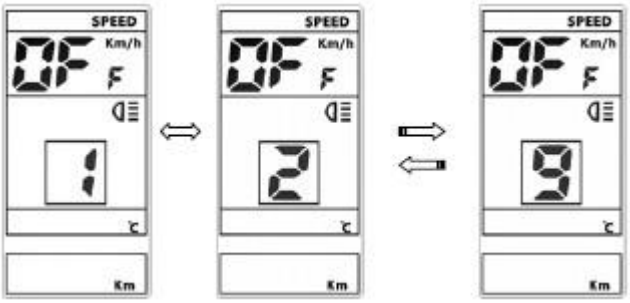
Buzzer On / Off

The location of speed display symbol **bEP**, press UP/DOWN button rotate display symbol **0/1**, 0 indicates buzzer off, 1 indicates buzzer on.



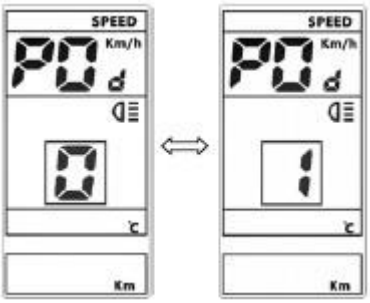
Auto off time

The location of speed display symbol **OFF**, press UP/DOWN button display symbol **1~9**, represent automatically shutdown delay time (minutes), default value is 5 minutes.



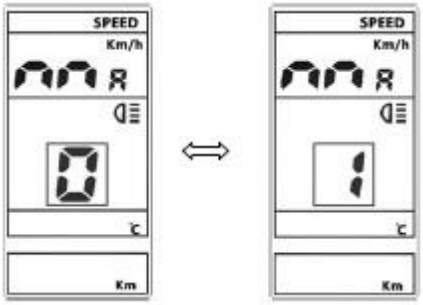
Power display

The location of speed display symbol **Pod**, press UP/DOWN button display symbol **0/1**, represent whether to show the power indicate on LCD.



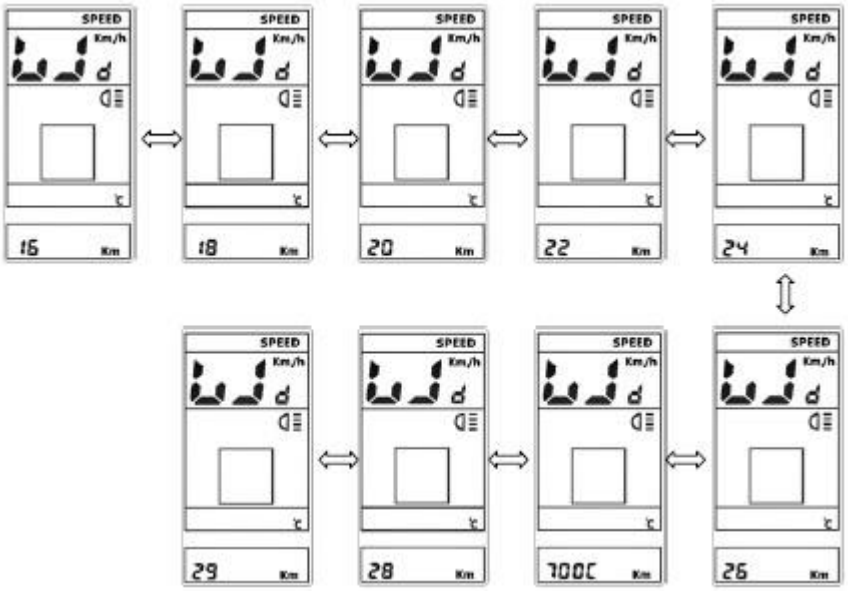
Maintain remind

The location of speed display symbol **nnA(ma)**, press UP/DOWN button rotate display symbol **0/1**, 0 represent maintain reminding off, 1 represent maintain reminding on.



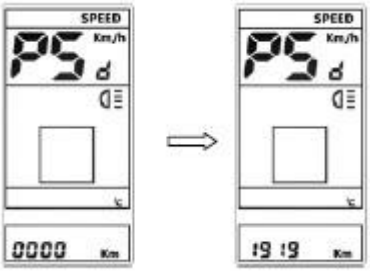
Wheel diameter

The location of speed display symbol **Wd**, press UP/DOWN button rotate display the symbol **16/18/20/22/24/26/700C/28/29**, value represents the diameter of the wheel (inch). Wrong wheel diameter setting will cause speed abnormal.



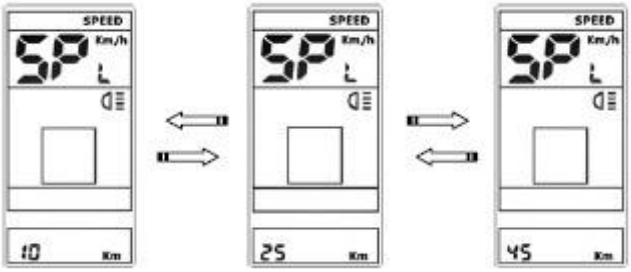
Password

The location of speed display symbol **PSd**, remind to input passwords, press UP/DOWN buttons to setup password value (0~9), press LEFT/RIGHT buttons to switch the password item, password is 4 digits, the default password is "**1919**". Press POWER button when password adjustment is completed. Display will return to the **Voltage set** item if the password is incorrect. Correct password will enter the **Speed limit set** item.



Speed limit set

The location of speed display symbol **SPL**, the location of mileage display speed limit value, the default value is **25km/h**. Press UP/DOWN buttons to adjust the speed limit value, speed limit value can be adjust from 10 to 40 - 60 km/h. Press POWER button to confirm when you finish the adjustment.



The maximum speed is restrict by the motor and controller, probably can't reach the set value.

Note: According to the applicable legislation, the engine assistance limit is set at 25 km/h. The display is factory-set to a maximum speed of 25 km/h. An increase in the maximum speed of 25 km/h is only possible outside of public roads and at the user's own risk.

PAS level instruction

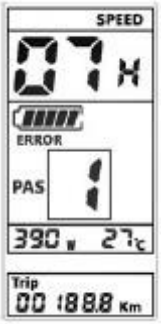
PAS level can be customized **UbE, 0 - 3, 0 – 5, 0 – 9**, **PAs** common used PAS level see the table below:

3 level	5 level	9 level	
0		0	No power assist
	1	1	
		2	
1	2	3	
		4	
	3	5	
2		6	
	4	7	
		8	
3	5	9	

ERROR CODE DEFINE

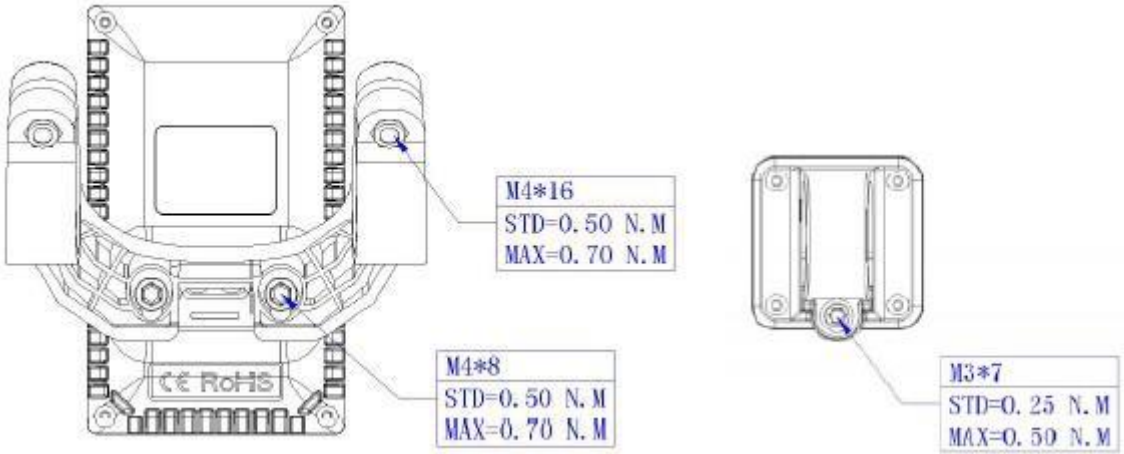
C965 can give warning when E-bike has error, LCD display **error** icon and error code in speed position, Error code from **01H~30H**, definition see the table below:

Error Code	Error description	Error display
0x01	Normal	No error
0x03	Brake signal	No error
0x04	Throttle on high position	Beep for 1 second, display **04H** on speed position
0x05	Throttle error	Beep for 1 second, display **05H** on speed position
0x06	Low voltage protection	Beep for 1 second, display **06H** on speed position
0x07	High voltage protection	Beep for 1 second, display **07H** on speed position
0x08	Line of the Hall on motor error	Beep for 1 second, display **08H** on speed position
0x09	Phase line of the motor error	Beep for 1 second, display **09H** on speed position
0x10	High temperature of controller	Beep for 1 second, display **10H** on speed position
0x11	Controller's temperature sensor error	Beep for 1 second, display **11H** on speed position
0x12	Current sensor error	Beep for 1 second, display **12H** on speed position
0x13	Battery's temperature sensor error	Beep for 1 second, display **13H** on speed position
0x14	Motor's temperature sensor error	Beep for 1 second, display **14H** on speed position
0x21	Motor's speed sensor error	Beep for 1 second, display **21H** on speed position
0x22	BMS communication error	Beep for 1 second, display **22H** on speed position
0x23	Head light error	Beep for 1 second, display **23H** on speed position
0x24	Head light sensor error	Beep for 1 second, display **24H** on speed position
0x30	Communication error	Beep for 1 second, display **30H** on speed position



ASSEMBLY INSTRUCTION

Please pay attention to the screw's torque value, damaged caused by excessive torque is not within the scope of the warranty.



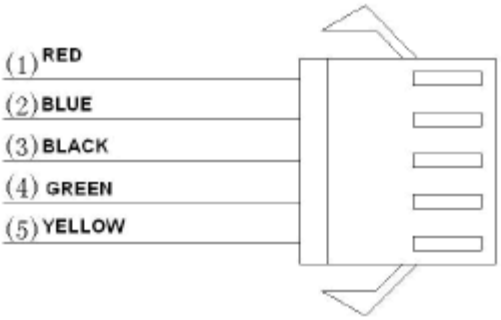
There are two installation methods for the clamp, forward or backward, according to user's demands. Different assembly methods will need different cable length.

Clamps suit for 3 size of handlebar diameter, 31.8mm, 25.4mm, 22.2mm, there are different transfer rings for 25.4mm and 22.2mm, transfer ring must assembly in right direction, see the figure below, pay attention to the green arrow position.

WARNING

There is waterproof membrane inside the sound hole. Don’t insert sharp object into the hole, it will causes waterproof failure. Sun exposure may cause high temperature indicate, this is not display’s failure.

OUTPUT WIRE INSTRUCTIONS



1、 Red wire : Anode(24v/36v)
2、 Blue wire : Power cord to the controller
3、 Black wire : GND
4、 Green wire : RxD (controller -> display)
5、 Yellow wire : TxD (display -> controller)