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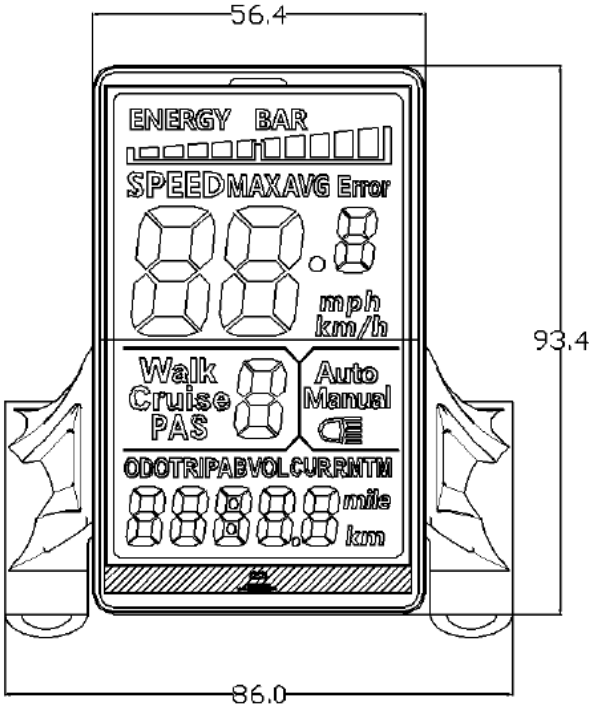
ELECTRIC BIKE

ElectricBikes LCD display SWM5 Display LCD Screen

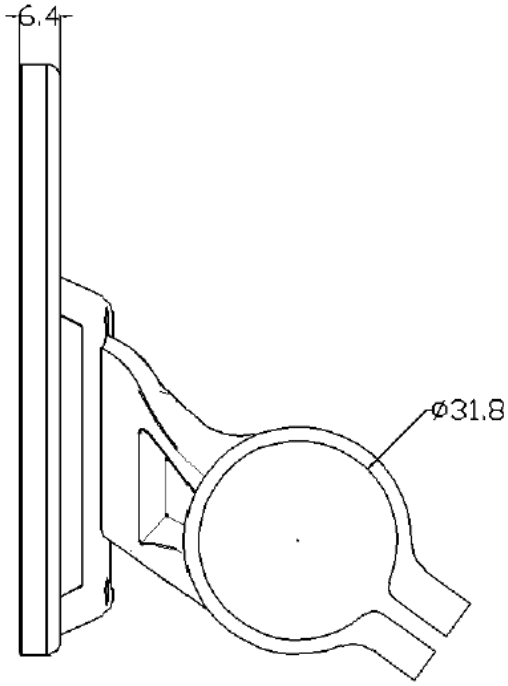
Exterior Parameters

Casing Material: ABS

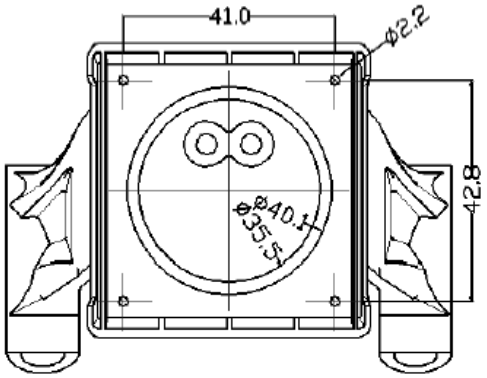
Display Material: High Hardness Acrylic (the same hardness value as tempered glass).



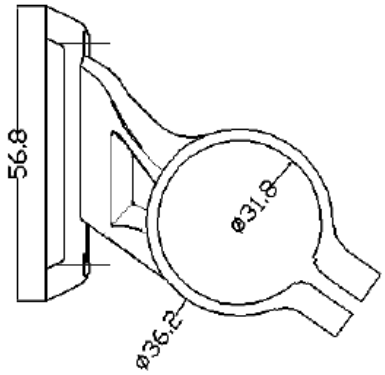
Front View



Side View



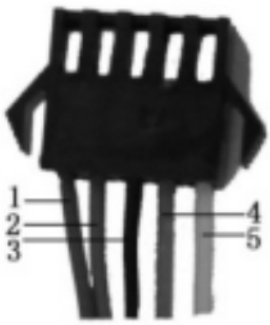
Side View of the Support Stand



Optional: Converter Ring φ 22.2mm / 25.4mm

Operating Voltage and Connections

1. Operating Voltage: DC24V / 36V Compatible, 36/48V Compatible (set by the display). Other operating voltage can be customized.
2. **Connectors:**
   Standard Connector Type



Controller Connector

Display Output Connector

Coupling Input Connector

Standard Connector Arrangement

Sequence No.	Wire Colour	Functions
1	Red VCC	Display Power Cable
2	Blue K	Controller Power On/Off Cable
3	Black GND	Display Ground Cable
4	Green RX	Display Data Receiving Wire
5	Yellow TX	Display Data Sending Wire

Extended Functions

- Light: Brown (DD): The positive electrode of the light
- White (GND): The negative electrode of the light.

The wire color definitions of the PWM Voltage Motor Power Controller and the independent speed sensor will be defined otherwise.
Note: Some products use waterproof connectors, whose internal wire arrangements cannot be identified from the exterior.

Functions

Display

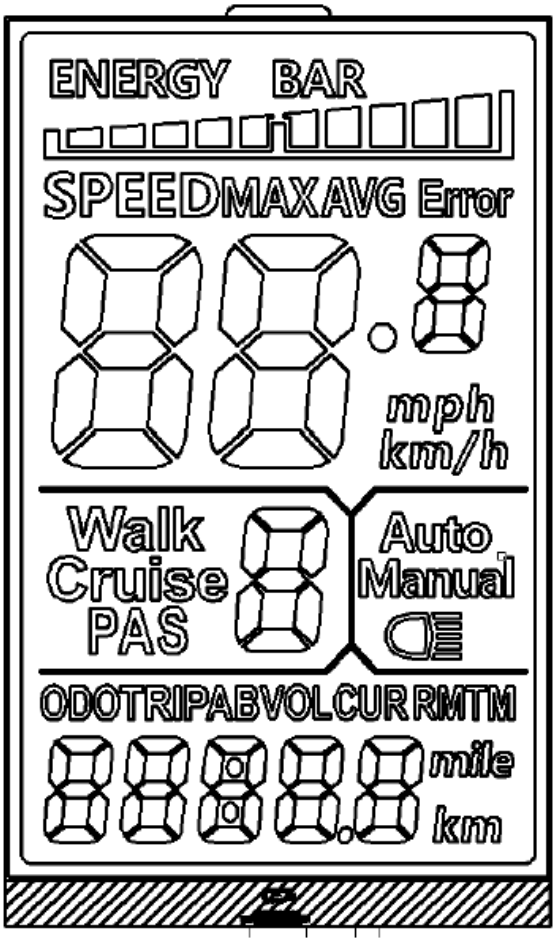
- Speed Display
- PAS Level Display
- Battery Level Display
- Error Indication
- Total Mileage
- Single Mileage
- Light Indication
- Single Trip Time

Control and Settings

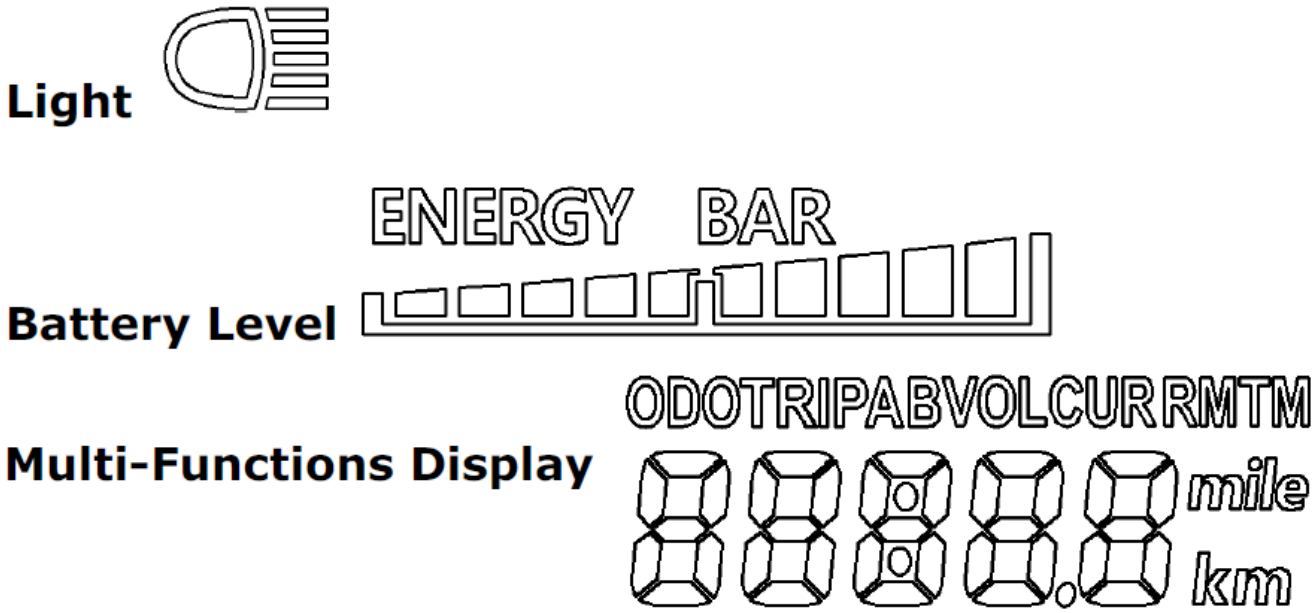
- Power Switch Control
- Front Light Control
- 6km/h Cruise
- Real-time Cruise Control Setting
- Wheel Diameter Setting
- Top Speed
- Sleep Interval Setting
- Backlight Brightness Setting
- Voltage Level Setting

Communications Protocol: UART

Display Readings (Displayed at start for 1 second)



Display Details

1. Light
2. Battery Level
3. Multi-Functions Display
    - Total Mileage: ODO
    - Single Mileage: TRIP
    - Error Code: Error
    - Power: WATT
    - Maintenance: Maintain
    - DST TO GO: Unspecified
4. 

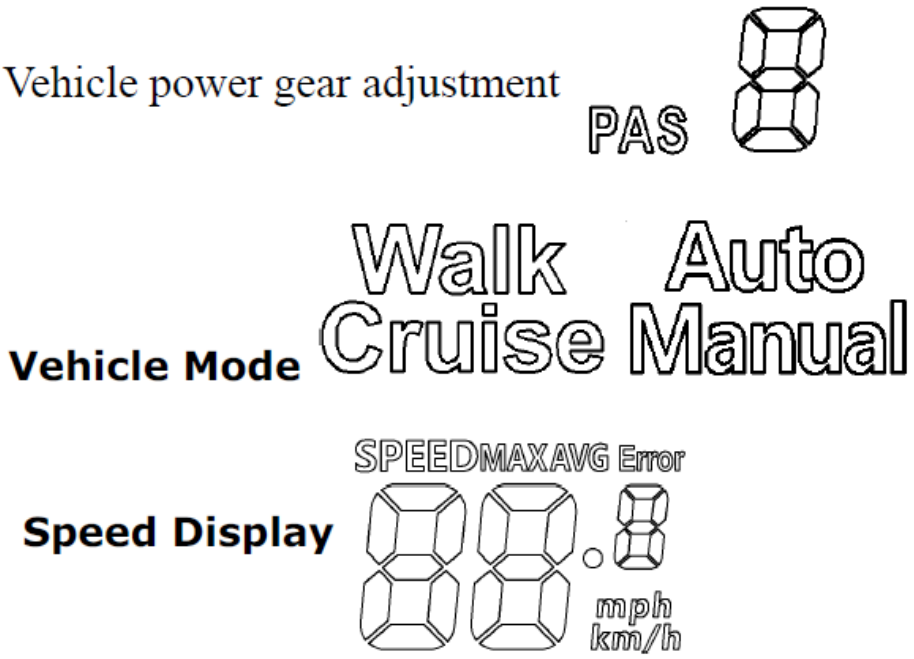
    Vehicle power gear adjustment

    Adjustable 0-9 gears; There are usually 3 mode, 5 mode, 9 mode optional (Part version 6km cart gear display P)
5. Vehicle Mode
    - ECO: Economical Mode
    - STD: Standard Mode
    - POWER: Intensified Mode
    - SPEEDHANDLE: Handle-controlled Speed Mode
    - WALK: Walk Boost Mode
6. Speed Display
    - Current Speed: CUR
    - Maximum Speed: MAX
    - Average Speed: AVG

- Measuring Unit: MPH or KM/H

  The display will calculate the actual travelling speed based on the wheel diameter and signal data (number of magnetic steel is needed for Hall motors).

7.



Vehicle Status **ERROR**

Error Code and Indications

Error Code (decimal)	**Indications**	**Note**
0	Normal	
1	Reserved	
2	Brake	
3	PAS Sensor Failure (riding mark)	Not Realized
4	6km/h Cruise	
5	Real-Time Cruise	
6	Low Battery	
7	Motor Failure	

8	Throttle Failure	
9	Controller Failure	
10	Communications Receiving Failure	
11	Communications Sending Failure	
12	BMS Communications Failure	
13	Light Failure	

8. Settings
    1. P01: Backlight Brightness (1: darkest; 3: brightest)
    2. P02: Mileage Unit (0: KM; 1: MILE)
    3. P03: Voltage Class 24V / 36V / 48V
    4. P04: Sleep Interval
       (0: never, other value means display sleep interval) Unit: minute
    5. P05: Power Assist Gear
       0/3 Gear Mode: Gear 1: 2V Gear 2: 3V Gear 3: 4V
       1/5 Gear Mode: Gear 1: 2V Gear 2: 2.5V Gear 3: 4V Gear 4: 3.5V Gear 5: 4V
    6. P06: Wheel Diameter Unit: inch Precision: 0.1
    7. P07: Magnet Steel Number (for Speed Test) Range: 1-100
    8. P08: Speed Limit
       Range: 0-50km/h, parameter 50 indicates no speed limit.
       1. Non-communications status (panel-controlled)
       When the current speed exceeds the speed limit, the PWM output will be shut down; when the current speed falls to lower than the speed limit, the PWM output will be activated and the driving speed will be set as the current speed ± 1km/h (only applies to assist power speed, not applicable to the handlebar speed).
       2. Communications status (controller-controlled)
       The driving speed will be kept constant as the limited value.
       Error Value: ±1km/h (applicable to both the assist power/handlebar speed)
       Note: The above-mentioned values are measured by metric unit (kilometers). When the measuring unit is switched to imperial unit (mile), the speed value displayed on the panel will be automatically switched to corresponding imperial

unit, however the speed limit value in the imperial unit interface won't change accordingly.

9. P09: Direct Start / Kick-to-Start Setting

   0: Direct Start

   1: Kick-to-Start

10. P10: Drive Mode Setting

    0: Power Assist – The specific gear of the assist drive decides the assist power value. In this status the handlebar does not work.

    1: Electric Drive – The vehicle is driven by the handlebar. In this status the power gear does not work.

    2: Power Assist + Electric Drive – Electric drive does not work in zero-start status.

11. P11: Power Assist Sensitivity Range: 1-24
12. P12: Power Assist Starting Intensity Range: 0-5
13. P13: Power Magnet Steel Number 5 / 8 / 12pcs
14. P14: Current Limit Value: 12A by default; Range: 1-20A
15. P15: Unspecified
16. P16: ODO Zero-Out

    Long press the up key for 5 seconds and ODO value will be erased.

Operations

Arrangement of Keys

Introduction of Keys

Key operations involve short press, long press and long press of combination keys. Short press is used for short/frequent operations as:

1. Short press the two keys   to change assist power/speed during riding.

2. Short press this key  to switch the readings in the multi-function display section.

Long press on a single key is used to switch mode/on/off status.
Long press on combination keys to set parameters, which can avoid misoperations (short press on combination keys is disabled to avoid misoperation).

Instructions of Keys

Adjust PAS level / Throttle level
In PAS mode

a. Short press , PAS +1.
b. Short press , PAS -1.

Switch Speed Display

Long press  +  to switch speed display type.
Enable/Disable 6km/h walk boost mode, set real-time cruise and turn on/off the lights

When the vehicle is parked, long press  to enter 6km/h walk boost mode. When the vehicle is travelling, long press  to enter real-time cruise mode.
Long press  to exit the cruise mode when the vehicle is in cruise 7 mode.
Long press  to turn on/off the lights.

Turn on/off the LCD Panel
When the display is in operation, long press  and it will be turned off, otherwise it will be turned on.

Switch Displayed Readings in Multi-Function Section
Short press  to switch readings shown in the multi-function section.

Set Parameters

Long press + to enter the setting interface.

Customizable parameters include:

Wheel Diameter (unit: inch);

Magnetic Steel Number;

Backlight Brightness;

Low Voltage Threshold (refer to setting P01-P14)

In the setting interface, short press or to turn up/down value to the parameter, which will blink after modified. After selecting the parameter that needs to be set,

- Long press to save the current value, and the parameter will stop blinking;
- Short press to switch to the next parameter and the previously set value will be saved at the same time.

Press + to exit the setting and save the parameters.
Without this operation, the system will automatically exit and save the modified parameters after 10 seconds.

Note: Due to product upgrade, the product you purchased may be slightly different from the descriptions in this user manual, and this won't affect normal usage.

Documents / Resources

	ElectricBikes LCD display SWM5 Display LCD Screen [pdf] User Manual LCD display SWM5 Display LCD Screen, LCD display SWM5, Display LC D Screen, LCD Screen

References

- User Manual

Display LCD Screen, ElectricBikes, LCD display SWM5, LCD display SWM5 Display LCD Screen, LCD screen

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