

# L04NH Instrument Manual



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pour :

1. Due to the upgrade of our products, the display content of the products you get may be different from that in the instructions, but it does not affect your normal use.
2. Do not plug or unplug while powered on, as it may damage the electronic control components.

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# product presentation

## 1. name

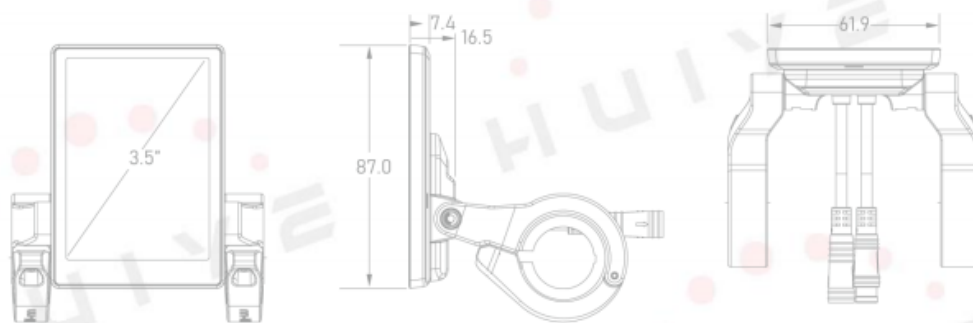
E-BIKE instrument

## 2. product model

L04N-H

## 3. product appearance

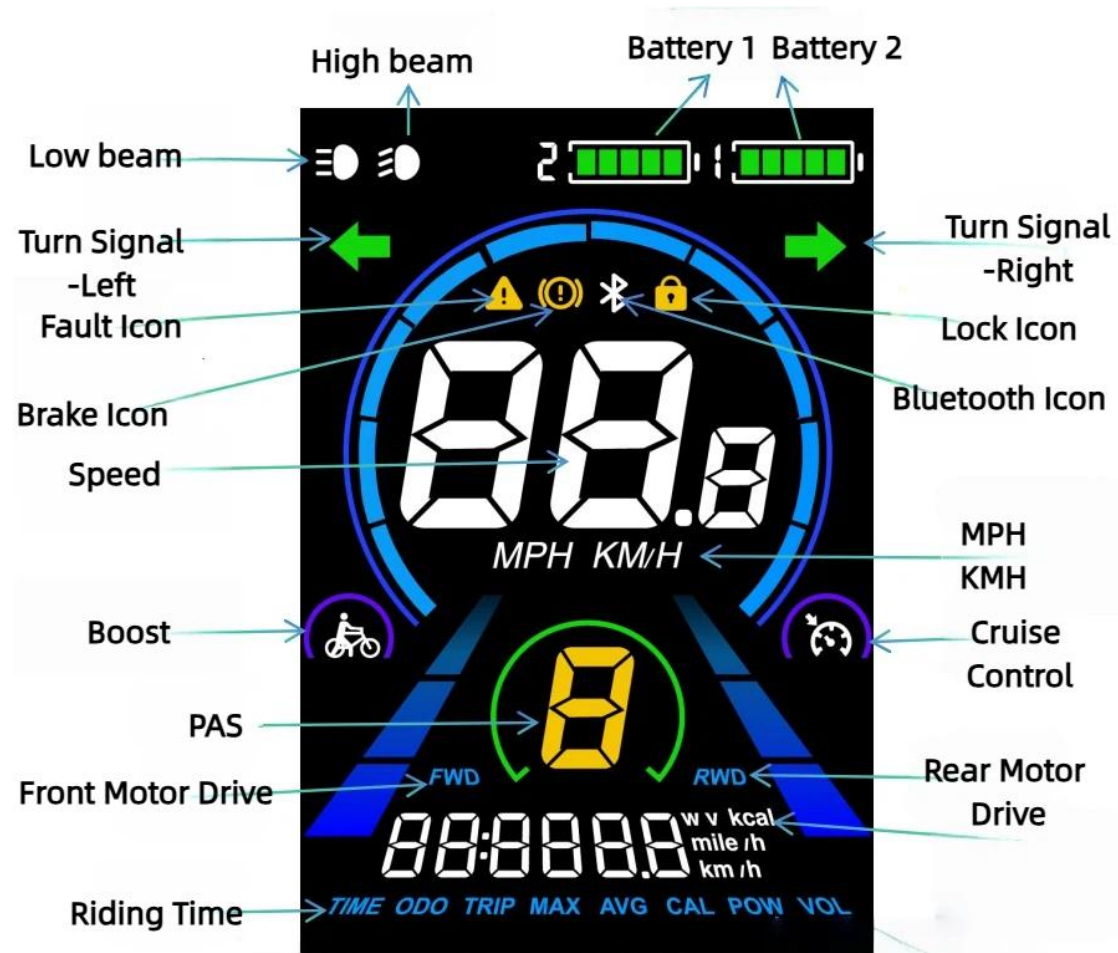




### General Parameters

|                 |                           |                         |
|-----------------|---------------------------|-------------------------|
| Dimensions      | Length*width*height       | 61.9*87.0*7.4 (mm)      |
|                 | Screen Size               | 3.5"                    |
|                 | Holder Diameter           | 22.2/25.4/31.8 (mm)     |
| Screen          | Type                      | LCD                     |
|                 | Color                     | Yellow/Green/White/Blue |
| General Feature | Weight                    | TBD                     |
|                 | Operating Voltage         | 12V~60V                 |
|                 | Operating Temperature     | -20 °C - +70 °C         |
|                 | Communication Protocol    | UART                    |
|                 | Ingress Protection Rating | IP66                    |
| Connector       | Type                      | M5 Waterproof Connector |
|                 | Length                    | 22 cm                   |
| Certification   | RoHS/CE/FCC/ISO13849      | Support Customization   |

## 4. Display on home screen



## 5. Button Definition

The L04NH instrument has three buttons: power on/off, plus (+), and minus (-), as shown in the figure below.



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## 6. Standard operation

### ① Startup & Shutdown

Press and hold the power button to turn on the instrument. To power down the system, press and hold the power button while it's on.

### ② Headlight switch

Turn on headlights: Press and hold the "+" button when the lights are off. The headlight icon on the instrument display will light up. (If you don't want to control the headlights directly through the instrument, the controller must support this feature.)

Turn off headlights: Press and hold the "+" button while the lights are on. The instrument display interface will show the headlights icon disappearing.

### ③ Boost Mode

When the vehicle is stationary, hold the "⚡" button to display the static boost indicator, indicating the boost mode. The speed position displays real-time speed. Release the "-" button to exit the boost mode, and the boost icon disappears.

## 7. Description

### 7.1 Set operation instructions

① Access the settings menu: On power-on, double-tap the Power button to enter the settings

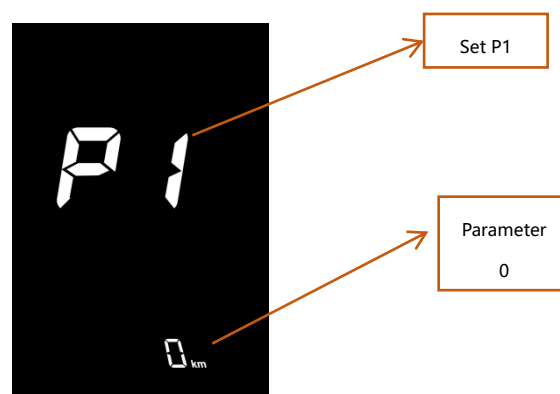
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interface..

② Adjust parameters: In the settings interface, click the power button to modify a parameter. The parameter in the lower right corner will flash. Then, press and hold the [Plus] or [Minus] keys to select the parameter value. After selecting the desired value, press and hold the [Power] button to save.

③ Save and exit the settings menu: Double-click the Power button to exit, or wait 1 minute if no action is taken in the settings interface, which will automatically return to standby mode.

Example: Double-tap the power button to enter settings: The P1 menu displays 0 (km) by default. Tap the power button once to enter the editing mode, where you can adjust the parameter to 0 (km) or 1 (mile) using the + or - keys. Tap the power button again to save the setting. Double-tap the power button to return to standby mode.



## 7.2 Set parameter introduction

P1: Unit of distance. 0: KM, 1: MILE; default 0

P2: Rated voltage. Range: 24-36-43-48-52-60V

P3: Non-zero start, non-zero start setting. N: non-zero start, Y: zero start

P4: Wheel diameter menu. Range: 8-30 inches; unit: inches

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(Short press + or-to increase/decrease by 0.1 units, long press + or-to increase/decrease by 1 unit)

P5: Speed sensor magnet count menu. Range: 1-63

P6: Speed limit menu. Range: 1-99 km/h. Communication status (controller control).

Drive speed maintenance display is set to the specified value.

*Note: The values here are in kilometers. When the unit is set to miles, the speed value on the display will automatically convert to the correct miles value.*

P7: Password activation menu: N: Disable password, Y: Enable password

P8: Auto shutdown menu. 0: no shutdown. 1-10,30,60: set shutdown time. Unit: minutes.

*Note: The automatic shutdown time refers to the device remaining stationary without operation. If the device is operated during this period, the timer will reset and the device will shut down and turn off the screen when the set time is reached.*

P9: E-ABS strength setting. Available parameters: AbS-N, AbS-L, AbS-S

PA: Drive mode settings:

- E: Assist drive (determines how much assist is output through the assist gear, the handlebar is invalid at this time)
- P: Electric drive (driven by the handlebar, the assist mode is invalid)
- E-P: Enable coexistence of power and electric drive (electric drive is invalid in zero-start state)

Pb: Enable intensity setting. Range: 0-5

Pc: Cruise control menu. N: No cruise control Y: Yes cruise control

Pd: ODO reset menu. N: Keep total mileage unchanged. Y: Reset total mileage (automatically reset trip counter upon restart)

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PE: Change the mobile password menu: Enter the original password (2020) first, then enter the new password. After successful setup, restart the device to verify the new password.

Note: This feature requires the P7 menu to be set to password-enabled mode

dF: Restore factory settings. N (do not restore factory settings), Y (restore all parameters to default values)

VR: Software version information.

Customer code (A0) + protocol (L) + software information (00): e.g., A0L01

**Note: (The third digit 5 represents the 5S protocol, B stands for the BF protocol, and L indicates the LD2 protocol)**

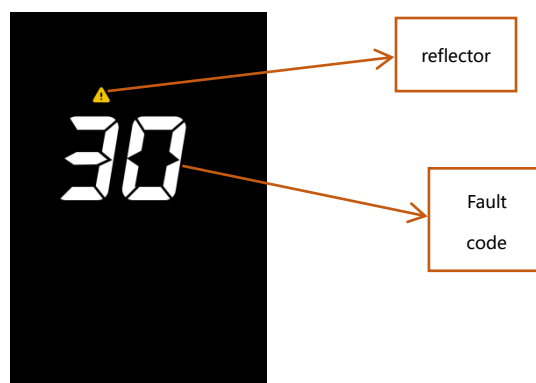
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## 8 Character Table

|   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A | b | c | d | E | F | G | H | I | J | K | L |
| M | n | o | P | q | r | S | t | U | v | W | X |
| Y | Z | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

## 9 Fault Code Explanation

The instrument can display fault alerts for the entire vehicle. When a fault is detected, the fault icon on the instrument interface will be highlighted and the fault code will be displayed.



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| Lithium Battery No.2 protocol fault code |                                        |              |                                            |
|------------------------------------------|----------------------------------------|--------------|--------------------------------------------|
| order<br>number                          | fault message                          | Show<br>code | remarks                                    |
| 1                                        | Hall fault status                      | 8            |                                            |
| 2                                        | Turn fault status                      | 5            |                                            |
| 3                                        | Controller fault status                | 16           |                                            |
| 4                                        | Undervoltage<br>protection status      | 6            |                                            |
| 5                                        | Motor phase loss                       | 9            |                                            |
| 6                                        | Shashe fault                           | 2            |                                            |
| 7                                        | Controller<br>communication<br>failure | 29           | Instrument data cannot be received         |
| 8                                        | Instrument<br>communication<br>failure | 30           | Cannot receive data from the<br>controller |