



专利产品 仿冒必究

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## LCD-950 智能调速手柄使用说明 滑板车专用

LCD-950 Intelligent Speed Control Handle  
InstructionsFor scooter

版本号: 20210501  
Version number: 20210501

常州利雅智能科技有限公司  
Changzhou zechariah intelligent technology Co.,LTD.



利雅科技 感动未来

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型号：LY-950 (三防仪表)

工作电压：DC24V兼容 / 36/ 48V 兼容 / DC48V/60V.

Model: LY-950 (three-proof instrument)

Working voltage: DC24V compatible / 36/ 48V compatible / DC48V/60V.







### 接线方式 :

1. 红线 ( D+ ) : 电源正极输入
2. 黑线 ( GND ) : 电源负极
3. 蓝线 ( LJ ) : 模拟信号
4. 绿线 ( TX ) : 通讯发送
5. 黄线 ( RX ) : 通讯接收
6. 白线 ( DS ) : 锁线信号

### Wiring :

1. Red wire (D+): positive power input
2. Black wire (GND): negative pole of power supply
3. Blue line (LJ): analog signal
4. Green wire (RX): communication sending
5. Yellow line (TX): communication reception
6. White wire ( DS ) : lock wire signal

## 1、功能 Function

速度显示、电量指示、故障提示、大灯指示、巡航指示、档位指示、总里程、单次里程实时电压、运行电流、运行时间、启动方式、驱动方式、单驱双驱切换、限速模式。

Speed display, battery indicator, fault indicator, headlight indicator, cruise indicator, gear indicator, total mileage, real-time voltage of single mileage, operating current, operating time, Start mode, drive mode, single-drive dual-drive switching, speed limit mode.

## 2、通信协议：UART

Communication protocol: UART

## 3、显示屏全部内容（开机 1S 内全显）

All contents of the display screen (full display within 1S after power on)



显示内容介绍 Display Area Introduction

1.电压状态等级 POWER  Voltage status level POWER

多功能显示区域 Multi-function display area



总里程 ODO、单次里程 TRIP、实时电压 V、运行电流 A、运行时间 TIME、故障代码 E、检测代码UE

Total mileage ODO, single mileage TRIP, real-time voltage V, running current A, running time TIME, fault code E, detection code UE

2.故障状态显示区域E,当图标在闪烁时，短按ON/OFF键把显示界面调整到E界面下该界面下对应的数字就代表相应的故障内容具体状态如下

Fault status display area E, when the symbol is flashing, short press the ON/OFF key to adjust the display interface to the E interface. The corresponding number under this interface represents the corresponding fault content. The specific status is as follows

ERRO 1: 电机故障

ERRO 2: 转把故障

ERRO 3: 控制器故障

ERRO 4: 断电刹把

ERRO 5: 欠压保护

ERRO 6: 通讯故障, 仪表收不到控制器的输出

ERRO 7: 通讯故障, 控制器收不到仪表的输出

ERRO 1: Motor failure

ERRO 2: Handlebar failure

ERRO 3: Controller failure

ERRO 4: Power-off brake lever

ERRO 5: Undervoltage protection

ERRO 6: Communication failure, the meter cannot receive the output of the controller

ERRO 7: Communication failure, the controller cannot receive the output of the instrument

3.当故障图标  闪烁时双击S击切换到E的界面就会出现故障代码.

When the fault icon is flashing  double-click the S to switch to the E interface, and the fault code will appear.

#### 4.速度显示区域 Speed Display Area

单位: MPH, KM/H

速度信号取自电机内霍尔信号， 经控制器发送给仪表，

( 单个霍尔周期的时间, 单位: 1MS )

表会根据轮径和信号数据(电机霍尔还需要设置磁钢数), 计算出真实的速度



Speed Display Area Unit: MPH, KM/H The speed signal is taken from the Hall signal in the motor and sent to the instrument by the controller.(The time of a single Hall cycle, unit: 1MS) The meter will calculate the true speed according to the wheel diameter and signal data (the motor Hall also needs to set the number of magnets)

#### 5. 档位显示区域 Gear display area



短按 ( M ) 键, 档位循环切换, 档位越高, 速度越快.

Press the (M) key momentarily to switch the gears cyclically. The higher the gear, the faster the speed.

#### 6. 大灯显示区域 Headlight display area

双击M键 , 大灯图标点亮 Double-click the M button, the headlight icon will light up

#### 7. 巡航显示图标 Cruise display icon

电机运转后, 维持调速手柄 5 秒不动巡航图标点亮, 松开手柄后电机维持原速度运行, 刹车或者再次拨动调速手柄并使其归位退出巡航状态.

After the motor is running, keep the speed control handle for 5 seconds and the cruise icon will light up. After releasing the handle, the motor will run at the original speed, brake or turn the speed control handle again and return it to exit the cruise state.

#### 8. 启动方式选择显示区域 START Start mode select display area

NON

ZERO

非零启动NON ZERO 图标点亮, 零启动 ZERO 图标点亮.

The non-zero start NON ZERO icon lights up, and the zero start ZERO icon lights up.

9. USB充电图标显示图标  USB charging icon display icon 

当有数据线接入仪表 USB 接口并从中吸取 100 毫安以上电流时，USB 图标点亮，如果图标处于闪烁状态则说明负载处于间歇充电状态或者负载电流超过 500 毫安，USB 接口自动开启提示模式，尽量提早拔掉。

When a data cable is connected to the USB interface of the instrument and draws more than 100 mA of current from it, the USB icon lights up. If the icon is flashing, it means the load is in intermittent charging or the load current exceeds 500 mA. The USB interface automatically turns on the prompt mode, try to unplug it as early as possible.

10. 驱动图标  Drive icon 11. 限速图标  Speed limit icon 

## 参数设置及定义 Parameter setting and definition

P02: 里程单位, 0: km; 1: mile;

P03: 电压等级: 24V, 36V, 48V, 60V默认 36V;

P04: 休眠时间: 0, 不休眠; 其他数字为休眠时间, 范围: 1–60; 单位分钟;

P06: 轮径: 单位, inch; 精度: 0.1;

P07: 测速磁钢数: 范围: 1–100;

P09: 零启动、非零启动设置, 0: 零启动; 1: 非零启动;

P15: 电机驱动信号百分比设定 (实现 P08 的限速功能) 全速设定为 100

P16: 仪表实时巡航功能 1 有此功能 0 无此功能

P19: 尾灯设置: 0 尾灯常亮 1 尾灯跟大灯同步

P20: 启动设置: 0 软启动 . 1 (50) 正常启动 . 2 (100) 硬启动

P21: 电子刹强度: 0. 弱 (5 级) 1. 中高 (8 级) 2. 强 (10 级)

P96: 40Km 设置: 0. 取消 40km 设置 1. 解除 40km 设置

P97: 驱动图标设置: 0. 无此功能 1. 有此功能

P98: 一键启动1有此功能0无此功能

P99: 一键恢复功能 ( 在 P99 参数设置界面下长按 MODE 键 5–6 秒所有参数恢复为第一次开机的初始设置 )

ODO:ODO清零 ( 在 ODO 参数设置界面先短按一下MODE 键再长按 5M–6 秒至数字为零松开 )

P02: Mileage unit, 0: km; 1: mile;

P03: Voltage level: 24V, 36V, 48V, 60V default 36V;

P04: Sleep time: 0, no sleep; other numbers are sleep time, range: 1–60; unit minutes;

P07: Number of speed magnets: range: 1–100;

P09: Zero start, non-zero start setting, 0: zero start; 1: non-zero start;

P15: Motor drive signal percentage setting (to achieve the speed limit function of P08) full speed is set to 100;

P16: Instrument real-time cruise function 1 has this function 0 does not have this function;

P19: Taillight settings: 0 taillights are always on, 1 taillights are synchronized with the headlights;

P20: Start setting: 0 soft start. 1 (50) normal start. 2 (100) hard start;

P21: Electronic brake intensity: 0. Weak (level 5) 1. Medium to high (level 8) 2. Strong (level 10);

P96: 40Km setting: 0. Cancel 40km setting 1. Cancel 40km setting;

P97: Drive icon setting: 0. No such function 1. With this function;

P98: One-key start 1 has this function 0 does not have this function P99: One-key recovery function (in the;

P99: parameter setting interface, press and hold the MODE key for 5–6 seconds, and all parameters are restored to the initial settings of the first

startup)ODO: ODO clear (in the ODO parameter setting interface, first short press the MODE button and then long press for 5M–6 seconds until the number is zero and release)

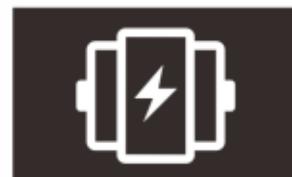
## 按键功能简介 Key function introduction

1.电门锁钥匙 ON:开, OFF :关。 Electric door lock key ON: open, OFF: closed.



2.S/M按键功能：单击S键可循环切换驱动图标（图标闪烁为前轮驱动单独工作）；驱动图标常亮状态下前后轮驱动同时工作；驱动图标不亮状态下为后轮驱动单独工作。仪表出厂默认为后轮驱动单独工作，该功能只支持双电机。双击（S）切换ODO、TRIP、TIME、V、A、E(故障代码).单击M键切换档位，双击M键开启灯控图标，长按M键点40km图标。S / M键同时按下三秒后进入后台参数设置界面；单位击S键可翻转参数设定界面，当前界面单击M键参数会闪烁可通过S/M键设置参数，参数修定后长按M键直到数字不闪烁为设置成功；设置成工后S键即恢复翻转功能。

S/M button function: Click the S button to cycle through the drive icons (the icon flashes for the front wheel drive to work alone); the front and rear wheel drives work at the same time when the drive icon is always on; the rear wheel drive works separately when the drive icon is off .The factory default of the instrument is that the rear-wheel drive works independently, and this function only supports dual motors. Double-click (S) to switch ODO, TRIP, TIME, V, A, E (fault code). Click the M button to switch gears, double-click the M button to turn on the light control icon, long pressClick the 40km icon on the M button. Press the S / M keys at the same time for three seconds to enter the background parameter setting interface; the unit press the S key to flip the parameter setting interface, the current interface clicks the M key and the parameter will flash. You can set the parameter through the S/M key. After the parameter is modifiedLong press the M button until the number does not flash, the setting is successful; after setting it to the S button, the flip function will be restored.



驱动图标 Drive icon

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3.油门加速器调节车辆速度，由上向下拨动控制车辆速度加速；松开油门加速器车辆速度减缓。

The throttle accelerator adjusts the speed of the vehicle, turning from top to bottom controls the speed of the vehicle to accelerate; when the accelerator is released, the speed of the vehicle slows down.



油门加速手柄 Throttle accelerator handle

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实物拍摄  
Physical shooting

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正面示图 Front view



反面示图 Back view

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电门锁漏水口 Electric door lock leaking

USB充电口 USB charging port

车辆供电保护口  
Vehicle power supply protection port

注：如发现仪表不能开机；请检查供电保护口插片式保险丝是否短路，若短路更换同型号保险丝（请借助于尖嘴钳工具拔出）。

**警示：**更换时必须在关机状态下钥匙箭头指向OFF标识。

Note: If you find that the meter cannot be turned on; please check the power supply protection port plug-in protectionWhether the fuse is short-circuited, if it is short-circuited, replace the fuse of the same type (please use the tipThe nose pliers tool is pulled out).

**Warning:** When replacing, the key arrow must point to the OFF mark when the machine is turned off.



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Music in the ride to play the more exciting

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