KING-METER

USERS GUIDE

KM524-LCD

目录

关于用户手册

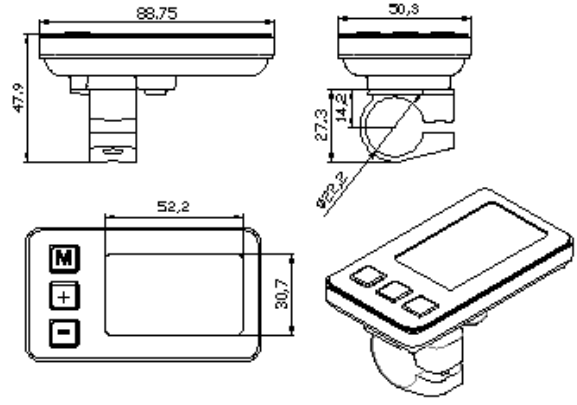
尊敬的用户，为了更好的操作您的电动车，请在使用前仔细阅读 KM524 仪表的说明书。我们将以最简洁的语言告诉您仪表使用的每一个环节，包括从硬件的安装、设置到仪表的正常使用。同时帮助您解决有可能出现的困惑与障碍。

外观尺寸

主要材质及颜色

KM524 产品采用黑色 PC 材料。外壳的材料允许在-20℃到60℃温度中正常使用，并且能保证很好的机械性能。

实物图及尺寸图（单位：mm）



功能概述及按钮定义

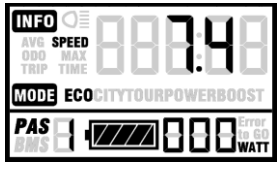
功能概述

KM524 为您提供了多种功能及显示，以满足您的骑行需要。KM524 显示的内容有：

- ◆电量显示，
- ◆电机功率显示，
- ◆速度显示（包括实时速度显示，最大速度显示及平均速度显示），
- ◆里程显示（包括单次里程显示和总里程显示），
- ◆单次骑行时间显示，
- ◆6Km/h 助力推行显示，
- ◆背光开启，
- ◆错误代码显示。

正常显示区域

KM524 正常显示区域如图所示



KM524 正常显示界面

按钮定义

KM524 仪表上有三个按钮。包括开机/模式键、加键和减键。

在后续的说明中，  按键用文字“**MODE**”替代。  按键用文字“**UP**”替代，  按键用文字“**DOWN**”替代。

用注意事项

在使用过程中注意使用安全，不要在通电情况下插拔仪表。

仪表尽量避免磕碰。

仪表使用贴膜为防水贴膜，请不要撕开，以免影响仪表防水性能。

关于仪表的后台参数设置，请不要随意更改，否则无法保证正常骑行。

当仪表不能正常使用时应尽快送修。

安装说明

将仪表固定在车把上，调整好合适的视角。在电动自行车断电的情况下，将仪表的接插件与控制器对应的接插件对插即可完成安装。

正常操作

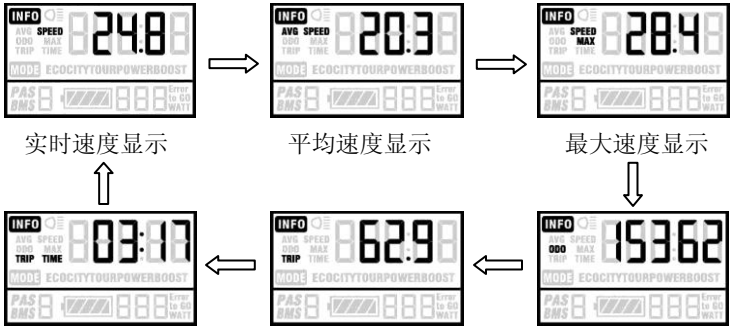
开机/关机

长按 **MODE** 键后，仪表开始工作，并提供控制器工作电源。在开机状态下，长按 **MODE** 键，可以关闭电动车电源。在关机状态下，仪表不再使用电池的电源，仪表的漏电流小于2uA。

如果超过 10 分钟不使用电动车，仪表会自动关机。

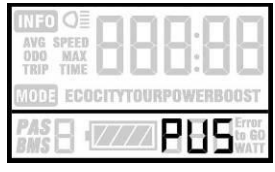
仪表显示界面

仪表开机后，仪表默认显示实时速度。短按 **MODE** 键切换显示信息。以依次显示：实时速度（单位：Km/h）→本次骑行的平均速度（单位：Km/h）→本次骑行的最高速度（单位：Km/h）→累计里程（单位：Km）→单次里程（单位：Km）→单次骑行时间→实时速度。



助力推行

按住 **DOWN** 不放，2 秒钟后，电动车进入电助力推行状态。电动车以每小时 6 公里的速度匀速行驶。屏幕显示 PUS。



助力推行显示界面

6Km/h 助力推行功能只能在使用者推行电动车时使用，请勿在骑行状态使用。

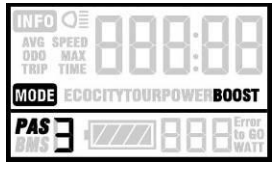
开启背光

长按 **UP** 延时 2 秒钟，仪表背光开启，同时通知控制器开前灯。当外部光线不足或者夜晚行车的时候，可以开启 LCD 背光。再次长按 **UP** 延时 2 秒钟，可以关闭 LCD 背光。

开启背光显示界面

助力档位选择

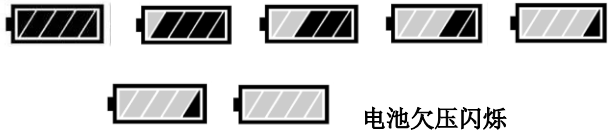
短按 **UP** 或 **DOWN** 按键，切换电动车助力档位，改变电机输出功率，仪表默认输出功率范围是 1—5 档，1 档是最低功率，5 档是最高功率。仪表开机默认档位是 1 档。



挡位切换显示界面

电量显示

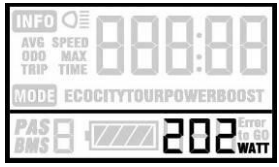
当电池电压高时五段 LCD 均亮，当电池欠压时电池外边框以 1HZ 的频率闪烁，表示电池已严重欠压，需要马上充电。



电池电量显示

功率显示

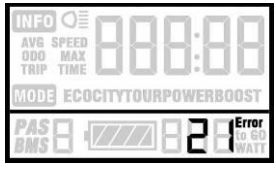
通过仪表可以知道电动车输出功率。显示方式如下图所示。



电池电量显示界面

错误代码显示

当电动车电控系统出现故障时，仪表将自动显示错误代码，详细错误代码的定义参见**附表 1**。



错误代码显示界面

只有故障被排除时才能退出故障显示界面，出现故障后电动车将不能继续行驶。

用户设置

开机前准备

确保接插件对接牢靠，并打开电动车电源。

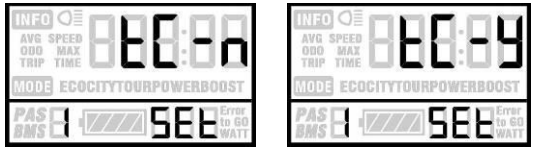
常规设置

长按 **MODE** 键即可开机。在开机状态下，同时按住 **UP** 和 **DOWN** 键 2 秒钟后，仪表进入常规设置状态。

单次里程清零和单次骑行时间

TC 代表**单次里程**，设置参数可选 N/Y。默认 N 表示单次骑行里程不清零。屏幕下方提示 SET1，表示设置项 1。通过 **UP/DOWN** 可选择 Y/N，Y 表示单次骑行里程需要清零。N 表示单次骑行里程不需要清零。

单次里程和单骑行时间是同时清零的。

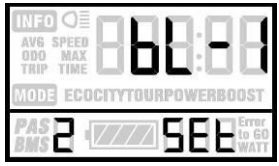


单次里程设置界面

背光亮度

BL 代表**背光**。可设置参数 1、2、3，表示背光亮度，1 是最暗，2 是标准亮度，3 是最亮。仪表出厂的默认数值是 1。屏幕下方提示 SET2，表示设置项 2。

通过 **UP**、**DOWN**，可改变背光亮度参数。长按 **MODE** 确认，退出常规设置状态。

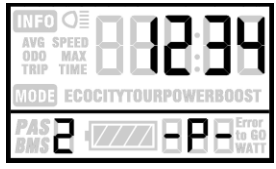


背光设置界面

仪表密码设置

同时按住 **UP+DOWN** 2 秒钟后抬起，进入常规设置状态。然后同时按住 **UP+MODE** 2 秒钟，可进入密码设置状态。

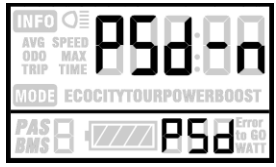
屏幕下方提示“-P-”，代表**密码**。“2”表示仪表的第二个密码。短按 **MODE** 移位，通过 **UP/DOWN** 加/减输入数值。4 位密码输入完后，短按 **MODE** 确认。密码正确则进入开机密码使能设置界面，否则停留在密码输入状态。输入密码：1234。



密码输入设置界面

密码使能

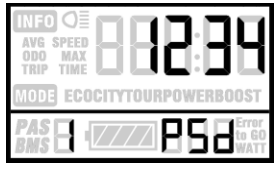
通过 **UP/DOWN** 选择 **Y/N,**Y 表示需要开机密码，N 表示不需要开机密码。短按 **MODE** 确认，进入仪表密码修改界面。仪表出厂的默认是 N。



密码使能确认界面

密码修改

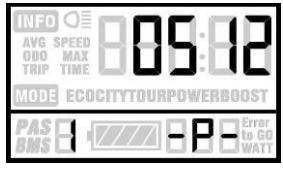
PSD 表示**密码。**短按 **MODE** 移位，通过 **UP/DOWN** 加/减输入数值。修改完后，长按 **MODE** 保存确认，退出设置界面。



密码修改界面

使用参数设置

同时按住 **UP+DOWN** 2 秒钟后抬起，进入常规设置状态。然后同时按住 **MODE+DOWN** 2 秒钟，进入密码输入状态。屏幕下方提示“-P-”，代表**密码**。“1”表示仪表的第一个密码。仪表出厂默认密码是：0512。

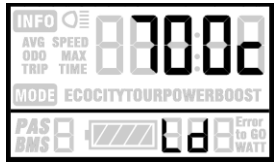


输入设置密码界面

短按 **MODE** 移位，通过 **UP/DOWN** 加/减输入数值。4 位密码输入完后，短按 **MODE** 确认。密码正确则进入轮径设置设置界面，否则停留在密码输入状态。

轮径设置

LD 表示**轮径。**可设置值有：16、18、20、22、24、26、700C，28。通过 **UP** 和 **DOWN** 选择车辆对应的轮径，以确保仪表速度显示和里程显示的准确性。仪表出厂默认轮径数值是 26inch。

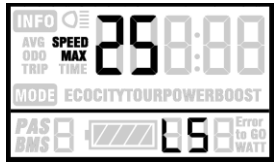


轮径设置界面

限速设置

仪表出厂的最高骑行速度默认值是 25Km/h。更改此数值可以设定电动车的最高骑行速度，当电动超过设定值时，控制器会停止对电机的供电，以保护骑行者的安全行驶。

LS 表示**限速。**最高速度设定值的可选择范围是 12Km/h 到 40Km/h 之间。可以通过 **UP/DOWN** 进行加/减设置。长按 **MODE** 确认，并退出设置状态。



限速设置密码界面

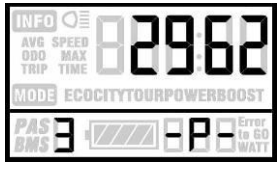
个性化设置

为了提高此款产品的个性化使用，我们特别加入了此项设置。能够针对使用者的不同要求对其进行设置。在此项设置中包括仪表的电池电量设置，助力档位设置，限流设置，助力传感器设置，速度传感器设置和系统设置。共六大项设置。详细设置项参见**附表 2**。

后台设置密码输入

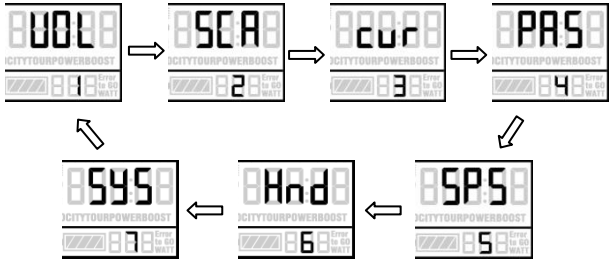
同时按住 **UP+DOWN** 2 秒钟后抬起，进入常规设置状态。进入然后再同时按住 **UP+DOWN**，进入后台参数设置状态。

屏幕下方提示“-P-”，代表**密码**。“3”表示仪表的第三个密码。短按 **MODE** 移位，通过 **UP/DOWN** 加/减输入数值。4 位密码输入完后，短按 **MODE** 确认。密码正确，则进入仪表设置项选择界面，否则停留在密码输入状态。后台参数设置密码为：2962。



后台输入密码界面

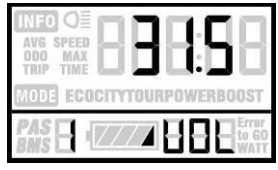
通过 **UP**、**DOWN** 选择需要设置的内容，短按 **MODE** 进入对应的设置界面。



设置选择界面

电池电量设置

VOL 代表**电压**。1 到 5 个电量强制输入。以第一个电量值为例。“1”表示第一个电压，“31.5”为第一个电量值，是可设定数值。电池电量格随 1 到 5 依次点亮。通过 **UP/DOWN** 进行加/减设置。短按 **MODE** 确认，并进入下一个电量值得设置。5 个电量值设置完成后长按 **MODE** 确认，退回仪表设置项选择界面。

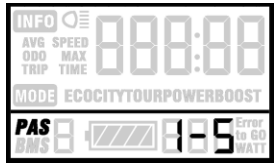


电池电量设置界面

助力档位设置

助力档位选择

在助力档位选择中提供了 8 中模式：0-3、1-3、0-5、1-5、0-7、1-7、0-9、1-9。通过 **UP/DOWN** 切换，短按 **MODE** 确认，进入对应的助力比例数值设置界面。



助力档位选择界面

0-3 或 1-3：**PAS1** 同时显示 ECO， **PAS2** 同时显示 TOUR，**PAS3** 同时显示 BOOST。

0-5 或 1-5：**PAS1** 同时显示 ECO， **PAS2** 同时显示 CITY，**PAS3** 同时显示 TOUR，**PAS4** 同时显 POWER，**PAS5** 同时显示 BOOST。

0-7 或 1-7：**PAS1** 同时显示 ECO， **PAS2** 同时显示 ECO，**PAS3** 同时显示 CITY， **PAS4** 同时显示 CITY，**PAS5** 同时显示 TOUR，**PAS6** 同时显 POWER，**PAS7** 同时显示 BOOST。

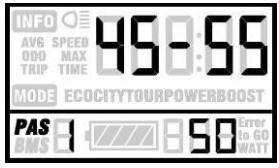
0-9 或 1-9：**PAS1/2** 对应 ECO， **PAS3/4** 对应 CITY，**PAS5/6** 对应 TOUR，**PAS7/8** 对应 POWER，**PAS9** 对应 BOOST。

助力比例数值设置

通过设置助力比例数值，可以调整每档的速度大小。以满足不同骑行者的需求。

以一档为例，“45-55%”为一档助力比例范围，“50%”为一档的助力比例系数，是可设定数值。通过 **UP/DOWN** 进行

加/减设置。短按 **MODE** 确认，进入下一个助力比例设置。最多可以设定 9 个。设置结束后，长按 **MODE** 确认，退回仪表设置项选择界面。短按 **MODE** 确认，返回助力档位选择。详细参考**附表 1**。

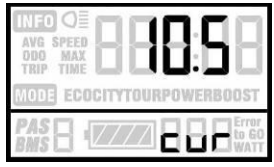


助力比例数值设置界面

限流数值设置

CUR 代表**限流**。限流可设置范围为 7.0-22.0A。通过 **UP/DOWN** 设置电流大小。长按 **MODE** 确认，退回仪表设置项选择界面。仪表出厂默认值为 15A。

根据控制器的不同硬件，此数值有可能无法达到设定的 22A。

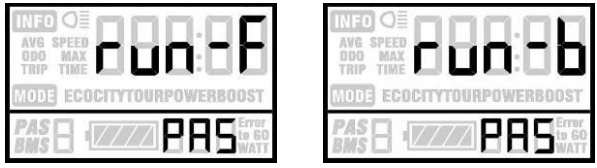


限流数值设置界面

助力传感器设置

助力传感器方向设置

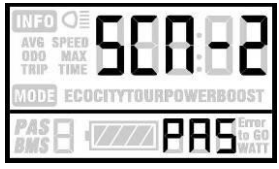
PAS 代表**助力传感器**，屏幕上面显示 run-F/b。run-F 代表正向，run-b 代表反向。通过 **UP/DOWN** 切换，短按 **MODE** 确认，进入助力传感器灵敏度设置。仪表出厂默认值为正向。



助力传感器方向设置界面

助力传感器灵敏度设置

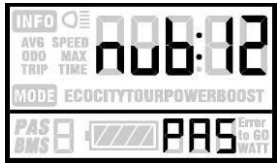
屏幕下面显示 PAS，代表助力传感器，屏幕上面显示 SCN，代表助力传感器的灵敏度。设置范围为 2-9。其中 2 表示灵敏度最高，9 表示灵敏度最低。通过 **UP/DOWN** 进行加/减设置，短按 **MODE** 确认，并进入助力传感器磁钢数设置界面。仪表出厂默认值为 2。



助力传感器灵敏度设置界面

助力传感器磁钢数设置

NUB 代表**磁钢的数量**。通过 **UP/DOWN** 可以选择助力传感器磁钢数 6/12。长按 **MODE** 确认，退回仪表设置项选择界面。短按 **MODE** 确认，返回助力传感器方向设置界面。仪表出厂默认值为 12。



助力传感器磁钢数设置界面

速度传感器设置

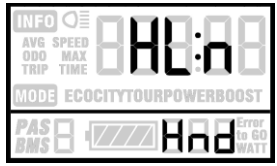
SPS 代表**速度传感器**。可以根据电动车车轮上所装的磁头数进行设置，设置范围 1-9。通过短按 **UP/DOWN** 实现修改。长按 **MODE** 确认，退回仪表设置项选择界面。仪表出厂默认值为 1。

速度传感器磁钢选择界面

转把功能设置

转把 6Km 助力推行使能设置

HL 表示**转把 6Km 助力推行**，HL:N 表示转把没有 6Km 功能，HL:Y 表示转把有 6Km 功能，即当转动转把的时候，仪表进入 6Km 助力推行模式。通过 **UP/DOWN** 可以切换 Y/N。短按 **MODE** 确认。若选择 N 则进入转把分档使能设置界面。否则返回仪表设置项选择界面。仪表出厂默认值为 N。

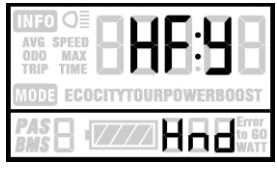


转把 6Km 助力推行设置界面

转把分档使能设置

HND 表示**转把**。**HF：Y** 表示转把分档，**HF：N** 表示转把不分档分档。如果选择转把分档，则表示在转动转把的时候，骑行速度会随转把的旋转角度而改变。如果选择转把不分档，则表示在转动转把的时候，骑行速度会随转把的旋转角度而改变。

通过 **UP/DOWN** 可以设置 Y/N。长按 **MODE** 确认，返回仪表设置项选择界面。短按 **MODE** 确认，返回转把 6Km 助力推行使能设置界面。

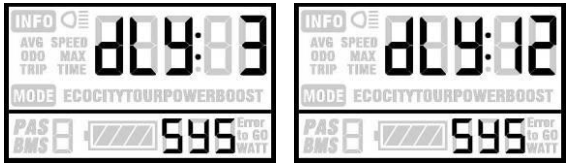


转把分档使能设置界面

系统设置

电量延时时间设置

DLY 代表**电量延时时间**。通过 **UP/DOWN** 可以选择电量延时时间 3/6/12s。，短按 **MODE** 确认，并进入最大限速设置界面。仪表出厂默认 3s。

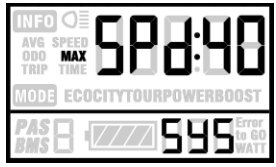


电量延时时间选择界面

最大限速设置

MAX SPD 代表**最大速度**。通过 **UP/DOWN** 可以设置最大限速，设置范围 25-40 Km/h。长按 **MODE** 确认，并退出设置。仪表出厂默认 40Km/h。

常规设置中的限速设置以此项设置值为准，不会超过此项设置中的设置值。



最大限制速度设置界面

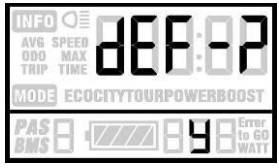
退出设置

在设定状态下，短按 **MENU**（2 秒以内），是确认输入保存当前设置。长时间按 **MENU**（2 秒以上），是确认保存当前设置，并退出当前设置状态。长按 **DOWN**(2 秒以上), 为取消当前操作，退出设置，不保存当前设置数据。

在一分钟内没进行任何操作，仪表自动退出设置状态。

复默认设置

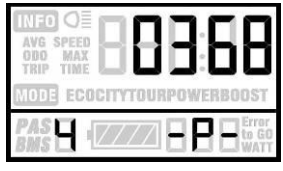
DEF 代表**恢复默认**。同时按住 **UP+MODE** 可进入恢复默认设置。通过 **UP**、**DOWN** 来切换 Y 或 N。N 表示不需要恢复默认设置。长按 **MODE** 确认。如果选择 Y，而进入密码输入界面，反之，则直接退出仪表出厂的默认是 N。



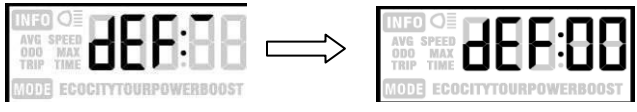
恢复默认设置界面

输入密码：0368。短按 **MODE** 移位，通过 **UP/DOWN** 加/减输入数值。4 位密码输入完后，短按 **MODE** 确认。仪表显示如下图所示，当仪表显示 DEF:00 时表示恢复默认成功，自动退出。

在恢复默认中，电池电量值、总里程和单次里程是不恢复的。开机密码也在恢复之列。



输入恢复密码界面



恢复开始　　恢复完成

恢复默认界面

常见问题及解答

问：为什么不能开机？

答：检查仪表线束与控制器的接插件接触可靠。

问：仪表显示故障代码应如何处理？

答：及时到维修电动车的维修点修理。

质量承诺与包修范围

一、保修信息：

1、凡属正常使用情况下由于产品本身质量问题引起的故障，在保修期内本公司将负责给予有限保修。

2、产品的保修期自用户购买装有我公司仪表日期开始计算 18 个月内。

二、保外条款：

以下情况不属于保修范围

1、擅自拆机，改装

2、由于用户或第三方误用或不正确的安装调试造成的故障或损坏

3、仪表出厂后，外壳划伤或外壳破损

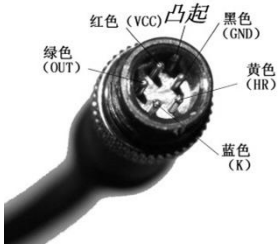
4、线划伤或断裂

5、由于不可抗拒（如火灾、地震等）或自然灾害（如雷击等）所造成的故障或损坏

6、产品超出保修期

引线连接图

标配接插件线序



仪表出线端

对接线端

标配接插件连接图

注：部分产品的引线采用防水接插件，用户无法看到线束内的引线颜色。

版本变更

本仪表的使用说明书是天津嘉特机电技术有限公司通用软件版本（V1.0 版本）的操作说明书。部分整车上使用的仪表软件版本有可能与本说明书略有差异，均以实际使用版本为准。

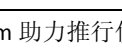
附表 1：错误代码定义表

错误代码	定义
21	电流异常
22	转把异常
23	电机缺相
24	电机霍尔信号异常
25	刹车异常
30	通讯异常

附表 2：密码速查表

序号	屏幕显示	密码	说明
1		0512	使用参数设置密码（固定）
2		**出厂默认** 1234	开机密码密码（可修改）
3		2962	后台参数设置密码（固定）
4		0368	恢复设置密码（固定）

附表 3：个性化设置对应表

序号	设置项	屏幕显示	设置内容
1	电池电量设置		5 个电量值设置 
2	助力档位设置		助力档位选择 
			助力档位比例 
3	限流设置		限制电流大小 
4	助力传感器设置		助力传感器方向 
			助力传感器灵敏度 
			助力传感器磁钢数 
5	速度传感器设置		速度传感器磁钢数 
6	转把功能		转把分档使能设置 
			转把 6Km 助力推行使能设置 

续表 3：

序号	设置项	屏幕显示	设置内容
7	系统设置	SYS	电量延时时间  最大速度设置 

附表 4：助力档位比例默认值表

档位 档位选项	1	2	3	4	5	6	7	8	9
0-3/ 1-3	50%	74%	92%	—	—	—	—	—	—
0-5/ 1-5	50%	61%	73%	85%	96%	—	—	—	—
0-7/ 1-7	40%	50%	60%	70%	80%	90%	96%	—	—
0-9/ 1-9	25%	34%	43%	52%	61%	70%	79%	88%	96%

附表 5：显示符号定义速查表

序号	符号	含义
1		设置
2		密码
3		电量延时
4		恢复默认
5		单次里程和单次骑行时间清零
6		背光
7		转把分档
8		转把 6Km 助力推行
9		限速
10		轮径
11		问号
12		反向
13		正向
14		是
15		否

Contents

About the User Manual

Dear users,

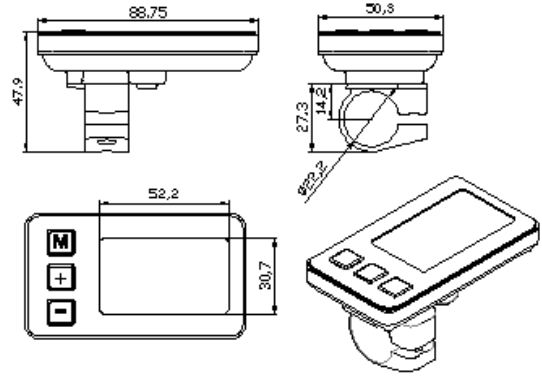
To ensure better performance of your e-bike, please read through the J-LCD product introduction carefully before using it. We will use the most concise words to inform you of all the details （including hardware installation, setting and normal use of the display）when using our display. Meanwhile, the introduction will also help you solve possible confusion and malfunction.

Outlook and Size

Material and Color

KM524 products are made of black PC material. Under the temperature of -20 to 60℃, the shell material can ensure normal usage and good mechanical performance of the products.

Real product and dimension figure (unit: mm)



Function Summary and Button Definition

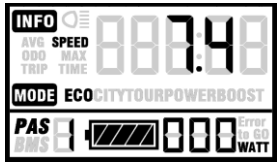
Function Summary

KM524 provides a wide range of functions and indicators to fit the users' needs. The indicated contents are as follow.

- ◆Battery Indicator
- ◆Motor Power Ratio
- ◆Speed Display (including riding speed, max speed and average speed)
- ◆Riding Distance Display (including riding distance and total distance)
- ◆Riding time
- ◆6Km/h Cruise control
- ◆Headlight On/Off
- ◆Error Code Display

Normal Viewing Area

Normal viewing area for KM524



Normal Viewing Area

Button Definition

KM524 has three buttons. They are   and  .

In the following introduction,  is named as “MODE”.

 is named as “**UP**” and  is named as “**DOWN**”.

Operation Cautions

Be cautions of safety during use. Don't attempt to plug the display when it is on.

Try to avoid bump.

Don't split the waterproof sticker to avoid affect the waterproof performance.

Don't modify the background parameter set arbitrarily, otherwise the normal riding can't be guaranteed.

Make the display repaired when unavailable.

Installation Instruction

Fix the display and 30 button onto the handlebar and adjust to an appropriate visual angle. Match display connectors with controller connectors.

Normal Operation

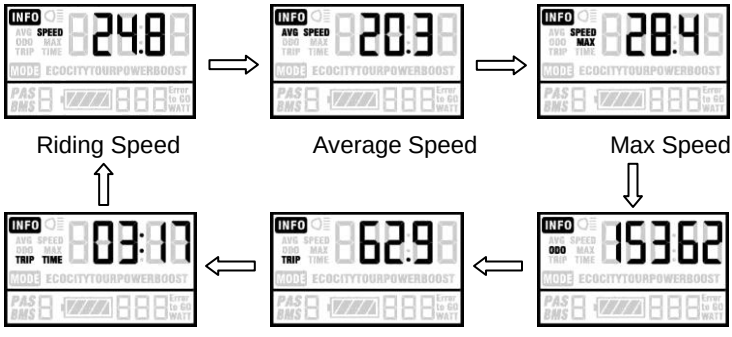
On/Off

Hold Mode button for 2 seconds and start the display. The display will provide power supply for the controller. With display on, long press **MODE** to turn off power supply of the e-bike. With the display off, the display and controller no longer consume battery power. The leakage current is no more than 2 uA.

If more than 10 minutes without use of the e-bike, the display will automatically shut down.

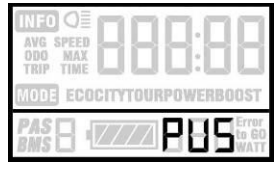
Display Interface

After starting up the display, it will show riding speed by default. Press MODE to switch the displaying information. The order is: Riding Speed (Km/h) → Average Speed (Km/h) → Max Speed (Km/h) → Total Distance (Km/h) → Trip Distance (Km/h) → Travel Time → Riding Speed (Km/h).



Push Cruise Control

Hold **DOWN** for 2 seconds and enter into the mode of power assist walk. The e-bike will go on at a uniform speed of 6 Km/h. It shows PUS on the screen.



Push Cruise Control

6Km/h "Push Cruise Control" function can only be used when the user is pushing the e-bike. Please don't use this function during riding.

Turn on/off Backlight

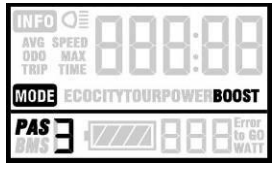
Hold **UP** for 2 seconds and turn on the backlight. Meanwhile, the controller will turn on the headlight. When the surrounding light is not enough or it is in the evening,

you can turn on the backlight. Hold **UP** for 2 seconds again and turn off the backlight.

Turn On/Off Backlight

PAS Level Selection

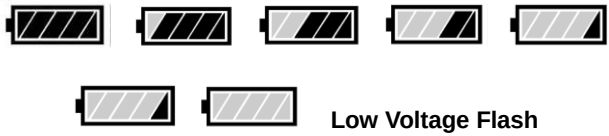
Hold **UP** or **DOWN** to change output power of the motor. The power ranges from level 1 to level 5. Level 1 is the minimum power. Level 5 is the maximum power.The default value is level 1.



PAS Level

Battery Indicator

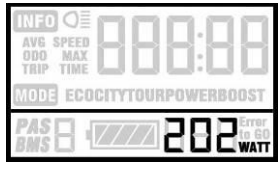
When the battery capacity is high, the five battery segments are all light. When the battery is in low voltage, the outside edge of the battery frame will flash at 1 Hz. It indicates that the battery is severely low in voltage condition and needs to be recharged immediately.



Battery Indicator

Power Display

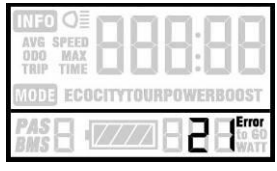
KM524 can show the output power of the e-bike. As shown below:



Power Display

Error Code Display

If there is something wrong with the electronic control system, the display will show the error code automatically. See Table 1 for detailed error code information.



Error Code

Display return to normal only after problem being fixed and bike will not run before fixing the problem.

User Setting

Preparation before Starting

Make sure connector linked properly to the motor controller on the bike.

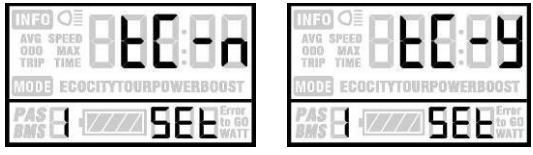
General Setting

Press and hold the **MODE** button and start the display. In the boot state, hold both **UP** and **DOWN** for 2 seconds at the same time, LCD will enter into the setting state.

Trip Distance Clearing and Trip Time

TC means trip distance. Hold **UP** or **DOWN** and choose whether to clear the trip distance. Bottom of screen prompts SET2. Y denotes the trip distance is cleared. N denotes the trip distance is not cleared.

The trip distance and trip time are cleared at the same time.

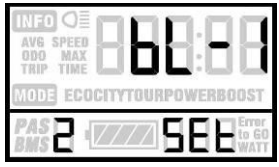


Trip Distance Clearing

Backlight Brightness

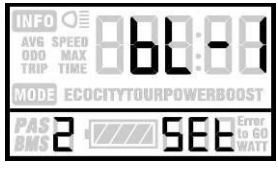
BL means backlight. Level 1 is the minimum brightness. Level 2 is the standard brightness. Level 3 is the maximum brightness. The default level is 2. Bottom of screen prompts SET2.

Hold **UP** or **DOWN** to adjust the backlight brightness. Long press MODE to confirm and exit the general setting.



Backlight Brightness

Pressing **UP** and **DOWN**，could change backlight lighting time.Long press **MODE** to confirm and quit Setting Mode.



Backlight setting Interface

Password Setting

The character “-P-” on the bottom of the screen show that this is a page about password.

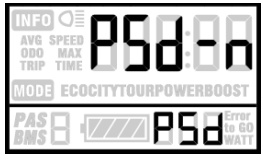
Press **UP** and **DOWN** at the same time and hold 2 seconds to entering normal setting .And then both press **UP** and **MODE** and hold 2 seconds to entering password setting .

Press **MODE** to move to the position what you want to change, and press **UP**/**DOWN** to plus or minus value . After 4-digite of the correct password enter， press **MODE** to confirm , then entering password setting enable .

Entering or Setting Password Interface

Power-on Password Enable

Press **UP**/**DOWN** to select **Y** or **N**, and press **MODE** to confirm , then enter the password change interface. **Y** stand for Power-on Password Enable.**N**stand for Power-on Password Disable.Default value isN。



Power-on Passsword Enable Interface

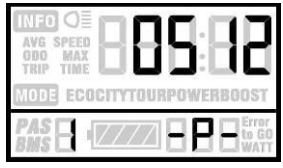
Power-on Password Modify

Press **MODE** to move to the position what you want to correct，and press **UP**/**DOWN** to plus or minus value , then long press **MODE** to confirm and quit Setting Interface.

Password Modify Interface

Normal Parameter Setting

Press **UP** and **DOWN** at the same time and hold 2 seconds to entering normal setting .And then both press **DOWN** and **MODE** and hold 2 seconds to entering password inputing Interface. Default password is 0512.



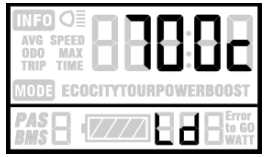
Password Inputting Interface

After 4-digite correct password input, press **MODE** to confirm ,then entering the wheel diameter setting interface.

Wheel Diameter Setting

Selectable values include :16、18、20、22、24、26、700C，28. Press **UP** and **DOWN** to select the suitable value ，to ensure the accuracy of display about speed and mileage . Default diameter value is 26inch。

Ld stand for Wheel Diameter



Wheel Diameter Setting Interface

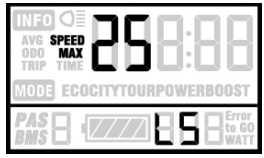
Speed-limit Setting

Changing MAX SPEED could set the limit riding speed. When speed over this value, controller will cut off the power which supply to motor,to protect the safety of rider .

MAX SPEED default value is 25Km/h .

Ls stand for Limit Speed

The range of selectable MAX SPEED is 12Km/h to 40Km/h . Press **UP**/**DOWN** to plus or minus the value . Then long press **MODE** to confirm and quit the setting mode .



Limit Speed Setting Interface

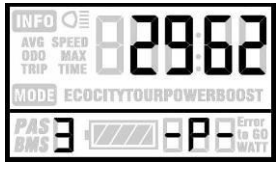
Personalized Setting

In order to improve the personalized use of this product, we are particularly add this settings .According to the different requirements of users to set . In this Background settings, include Battery Power Setting、Power assistant level Setting、Limit-current Setting、Power Assistant Sensor Setting、Speed Sensor Setting and System Setting . For details, see **Attached List 2**.

Background Parameter Setting

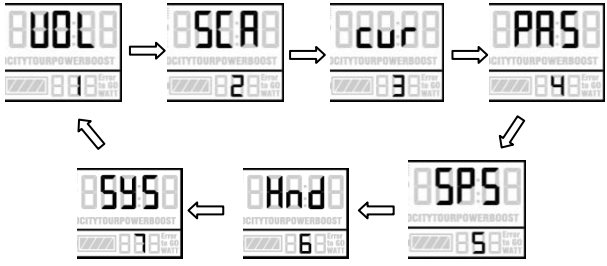
Press **UP** and **DOWN** at the same time and hold 2 seconds to entering normal setting .And then both press **UP** and **DOWN** to enter Background parameter setting .

After inputing the correct password 2962, then press **MODE** to confirm and enter Background Parameter Setting , you could select the option what you want .



Background Password Input Interface

Press **UP**、**DOWN** to select , then press **MODE** to enter the corresponding setting interface .



Option Select Interface

Battery Power Setting

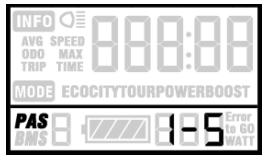
VOL means voltageInputting. 1 to 5 voltage value . To first voltage as example. The character “1” in the lower left corner means first voltage, the character “31.5” on the top is first voltage value，could be changed . Press **MODE** to confirm and go to next voltage set, and the battery level display will turn on from 1 to 5. After 5 voltage be completed, press **MODE** to confirm and back to Option Select Interface .

Battery Power Setting Interface

Power Assistant Level Setting

Power Assistant Level Select

In Power Assistant Level Setting , there have 8 modes for select ：0-3、1-3、0-5、1-5、0-7、1-7、0-9、1-9 . Press **UP/DOWN** to select the mode , press **MODE** to confirm , then enter the correspond setting interface.



Assistant Level Select Interface

0-3 or 1-3：**PAS1** also shows ECO,**PAS2** also shows TOUR, **PAS3** also shows BOOST.

0-5 or 1-5：**PAS1** also shows ECO, **PAS2** also shows CITY, **PAS3** also shows TOUR,**PAS4** also shows POWER, **PAS5** also shows BOOST.

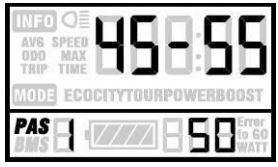
0-7 or 1-7：**PAS1** also shows ECO, **PAS2** also shows ECO, **PAS3** also shows CITY, **PAS4** also shows CITY, **PAS5** also shows TOUR,**PAS6** also shows POWER, **PAS7** also shows BOOST,

0-9 or 1-9：**PAS1** or **2** also shows ECO, **PAS3** or **4** also shows CITY, **PAS5** or **6** also shows TOUR, **PAS7** or **8** also shows POWER, **PAS9** also shows BOOST,

The Value of Assistant Proportion

By setting the value of assistant proportion , in order to meet the different requirments.

To first level as example，“45-55” is the range of the value assistant percentage ，“50” at the bottom is real value , could be changed . After inputting , press **MODE** to confirm and go to next setting . After all assistant proportion input, then long press **MODE** to confirm and back to Option Select Interface , press **MODE** back to power assistant level select interface . For details, see **Attached List 1.**

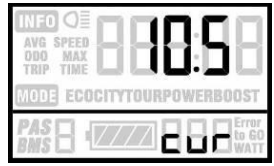


Assistant Proportion Interface

The Value of Limit-Current Setting

CUR means Limit Current . CUR could be changed from 7.0A to 22.0A . Press **UP/DOWN** to change the value of the current, then long press **MODE** to back to Option Select Interface . Default value is 15A。

According to controler's different hardward,this value may not reach 22A.

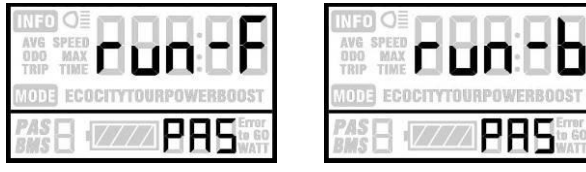


Limit-current Setting Interface

Power Assistant Sensor Setting

The Direction of Power Assistant Sensor Setting

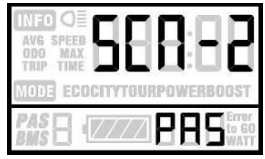
PAS means Power Assistant Sensor. On the top of the screen , the character “run-F” means forward direction , the character “run-b” means reverse direction . Press **UP/DOWN** to select , then press **MODE** to confirm and enter sensor sensitivity setting . The default direction is forward direction .



Direction of Power Assistant Sensor Setting

The Sensitivity of PAS Setting

On the top of the screen show SCN，stand for the sensitivity of PAS , the value is from 2 to 9 . The highest level is 2 , the lowest level is 9 . Press **UP/DOWN** to change value ， press **MODE** to confirm and enter magnet quantity setting interface . Default value is 2。



The Sensitivity of PAS Setting Interface

Magnet Quantity Setting

NUB means magnet quabtity . Press **UP/DOWN** to select quantity between 6 and 12 , then long press **MODE** to confirm and back to Option Select Interface , or short press **MODE** to confirm and back to the direction of PAS setting interface . Default value is 12。

Magnet Qu

please put 154 here for 5 magnets PAS sensor

Speed Sensor Setting

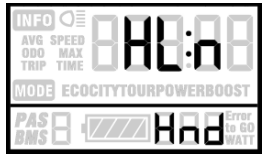
SPS means Speed Sensor Setting . Press **UP/DOWN** to select the quantity of magnet (the range is from 1 to 9), then press **MODE** to confirm and back to Option Select Interface .Default value is 1 .

The Quantity of Speed Sensor Magnet Select Interface

Handle Function Setting

Power Assistant Function Enable

HL means Assistant Implementation，HL:N means 6Km function disable ，HL:Y means 6Km function enable ，that is turn the handle turn on 6Km function . Press **UP/DOWN** to select Y , then press **MODE** to confirm and back to Option Select Interface, or select N to enter throttle-changing enable setting interface . Default value is N .

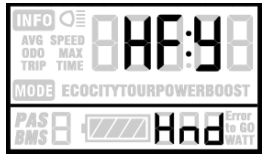


Power Assistant Function Enable Interface

Throttle-changing Enable Setting

HND means handle . **HF：Y** means r throttle-changing enable , **HF：N** means throttle-changing disable . If select **HF:Y** , it means that the riding speed will be changed follow with handle's rotation angle . Otherwise the riding speed will not be changed follow with handle's rotation angle .

Press **UP/DOWN** to select and long press **MODE** to confirm and back to Option Select Interface . Short press **MODE** to confirm and back to Power Assistant Function Enable Interface .

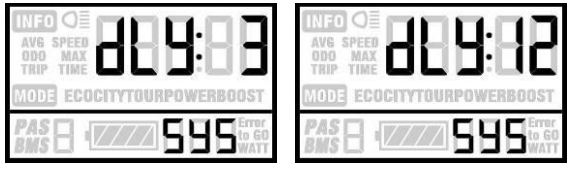


Throttle-changing Enable Setting Interface

Systerm Setting

Delay time setting of battery power

DLY means delay time of battery power. Choosing delay time 3/6/12s through pressing **UP/DOWN,** when short press **MODE,** setting the max speed limited**.** The default time is 3s.

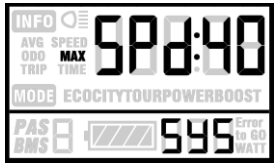


Delay time of battery power interface

Max speed limited

MAX SPD means max speed limited. Setting the max speed when pressing **UP/DOWN** from 25-40 Km/h. long press MODE, then exit setting. The default is 40Km/h.

The standard speed limit setting is based on this setting, not more than this setting value.
This setting is the priority version



Interface of max speed limited setting

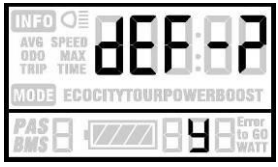
Exit setting

Be the setting state, short press MENU (less than 2s) to input. long press MENU (more than 2s), saving the setting, then quit the setting state. Long press DOWN (more than 2s), Cancel the operating and not saving setting data.

If there is no any operating in one minute, display will exit setting state.

Recover default setting

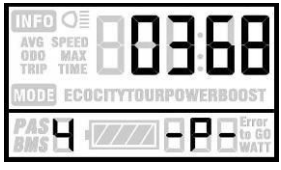
DEF means recover default. Meanwhile press **UP+MODE** to enter recover default setting**.** Pressing **UP**、**DOWN** to convert Y or N.N means do not need to recover default setting; Y means entering into password setting. Otherwise, display will exit. The default state is N.



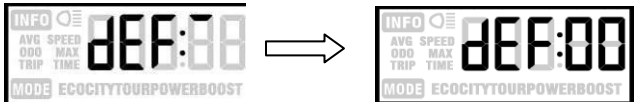
Restore Default Setting Interface

Input password: 0368. Short press MODE, **UP/DOWN can** increase or reduce number. After inputting 4 password, short press MODE confirm. The interface as below. When display showed DEF:00 means recover default state, then exit.

In the recovery default, battery power, ODO and trip is not recovered, but starting up password need to be recovered.



Input recovery password interface



Start Complete

Recover default interfac

FAQ

Q: Why the display is not able to start up?
A: Checking the connector that between display and controller.
Q: How to deal with the error code?
A: Fix it to the maintenance place immediately

Quality assurance and warranty scope

1、warranty

1、Any quality problems in normal case and in guarantee period, our company will responsible for the warranty.

2、The warranty time is 18 months from date of purchasing.

2、other items

The following items are not belong to warranty scope

1、 It can not be demolished.

2、The damage caused by wrong installation or operation.

3、Shell is broken when display is out of the factory.

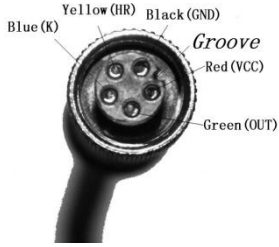
4、Wire is broken.

5、Force majeure (such as fire, earthquake, etc.) or natural disasters like lightning, etc caused by fault or damage.

6、Beyond Warranty perio.

connector line sequence

outlet



connection

connector connection layout

Some wire use the water-proof connector, users are not able to see the inside colou

Version changes

This operating instruction is a general-purpose version（V1.0）. Some of the version of the display software will be different from the specification, all with actual use version.

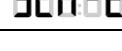
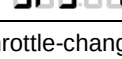
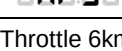
Attached list 1：Error code definition

Error Code	Definition
21	Current Abnormality
22	Throttle Abnormality
23	Motor Abnormality
24	Motor Hall Signal Abnormality
25	Brake Abnormality
30	Communication Abnormality

Attached list 2： Password table

No	OSD	Password	Setting
1		0512	Using parameter setting password(settled)
2		**Default** 1234	Starting up password
3		2962	Personality setting password(settled)
4		0368	Recovery setting password(settled)

Attached list 3：Personality Parameter setting

No	Setting	Display	Details
1	Battery power		Five battery power value 
2	Assistance		Power assist level option 
			Assistance proportion 
3	Current-limiting		Limit current 
4	Power assist sensor		PAS direction 
			PAS sensitivity 
			PAS magnet No 
5	Speed sensor		Speed sensor magnet No 
6	Throttle		Throttle-changing 
			Throttle 6km 

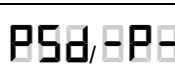
Continue list 3：

No	Items	Display	Setting
7	System setting		Time of battery power delay 
			Max speed 

Attached list 4：Power assist table

Level / Item	1	2	3	4	5	6	7	8	9
0-3/ 1-3	50%	74%	92%	—	—	—	—	—	—
0-5/ 1-5	50%	61%	73%	85%	96%	—	—	—	—
0-7/ 1-7	40%	50%	60%	70%	80%	90%	96%	—	—
0-9/ 1-9	25%	34%	43%	52%	61%	70%	79%	88%	96%

Attached list 5：symbol definition

No	Symbol	Definition
1		Setting
2		password
3		Power delayed time
4		Recover default
5		Trip and time to clear
6		backlight
7		Throttle-changing
8		Throttle 6Km power assist walk
9		Speed limit
10		Wheel diameter
11		Question mark
12		backward
13		Forward
14		Yes
15		No

KING-METER