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声明 statement

此产品功能规格书为敝司所生产产品之标准功能定义说明，是敝司产品之技术档案一部分。 **This manual is the product function manual of KAABO products. It is part of the KAABO technical file.**

敝司所有仪表产品允许根据客户需求做功能定义的调整，此文档对产品功能定义、操作说明及故障分析等有参考作用，您拿到的产品功能状态将以实际的客户需求确认及沟通为准。仪表作为电动车人机交互的部件单元，起到了整车与用户交互的功能作用，但所有交互功能均依赖于整体电气系统的功能定义及数据支持，其中部分功能的实现将取决于您的整车系统定义。 **Customers is allowed to adjust the functions of the KAABO display according to their needs, All descriptions in this file are for reference only, the final product is subject to the result confirmed with the customer. As a component unit of the human-machine interaction, the display has the function of interaction between the vehicle and the user. However, all interactive functions depend on the function definition and data support of the overall electrical system. The realization of some of the functions will depend on your scooter configuration.**

如果您对本产品规格书之理解有疑问，请及时咨询敝司销售或技术支持人员。
If you have any questions about this manual, please consult KAABO sales or KAABO technical support.

敝司（Kaabo®）保留对此产品功能规格书的所有解释、说明权限。
Kaabo® reserves all interpretation and explanation authority of this product manual.

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Ningbo Kaabo Technology Co., Ltd



产品名称及型号 **Product name and model**

电动助力车用 3.5 寸 IPS 彩屏液晶显示仪表

Electric scooter 3.5 inch IPS color LCD display

产品型号：DM06.KB。

Model:DM06.KB

产品简介 **Product Introduction**

✧ 视窗采用进口钢化玻璃，2.5D 倒角加工工艺

Screen use imported tempered glass, 2.5D chamfering processing technology

✧ 高亮度 3.5 英寸高清高亮度全视角 IPS 彩色液晶屏

High-brightness 3.5-inch high-definition high-brightness full viewing angle IPS color LCD screen

✧ 采用特殊贴合工艺，确保户外使用的可视性

Use special bonding technology to ensure visibility for outdoor use

✧ 独立操作开关，按键结合人机工学设计

Independent operation switch, ergonomic design button



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✧ 优异的户外防水设计，可达到 IP65 以上防水能力

Reach IP65 waterproof

✧ 支持 Service Tool 功能，可快速实现固件升级及参数设置，方便维修服务

Support Service Tool function, can quickly realize firmware upgrade and parameter setting, convenient for maintenance service

外观及尺寸 Appearance and size

DM06 产品外壳材料为 PC+ABS，视窗采用高硬度进口钢化玻璃，结合 2.5D 圆角工艺。产品适配于 $\phi 22.2\text{mm}$ ， $\phi 25.4\text{mm}$ ， $\phi 31.8\text{mm}$ 的把横管。

The shell material of DM06 product is PC+ABS, and the screen use high-hardness imported tempered glass, combined with 2.5D rounded corner technology. The product is suitable for $\phi 22.2\text{mm}$, $\phi 25.4\text{mm}$, $\phi 31.8\text{mm}$ horizontal pipes.

61 mm

14.5 mm





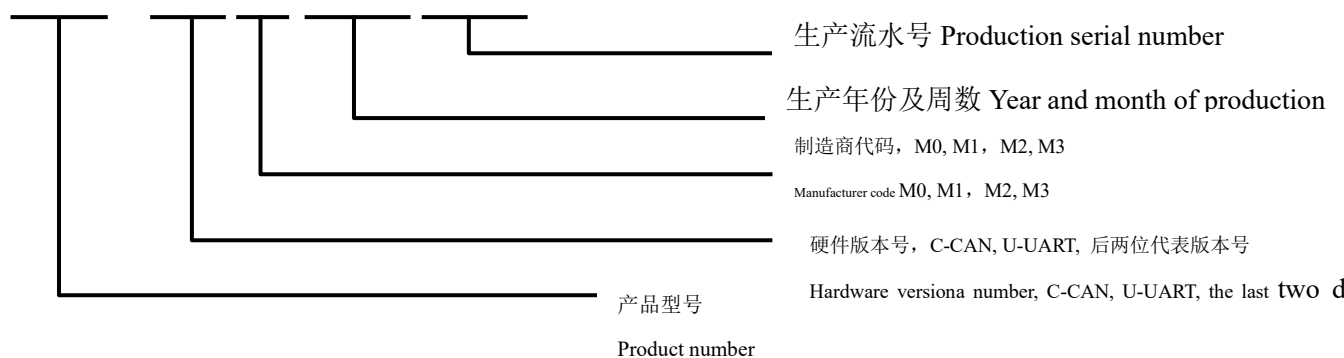
仪表编码规则 Instrument coding rules



DM03-C01M120140001
V01. XXX. XX-24V2526XX

如示意图 As shown in the diagram:

DM03-C01M120140001

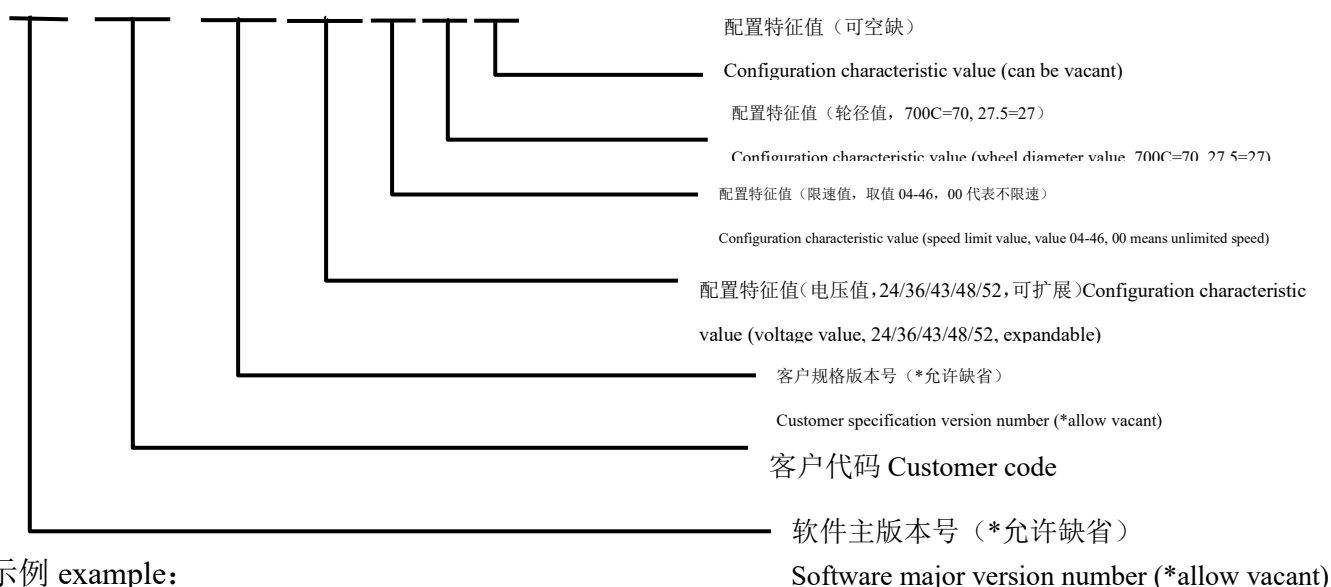


M0: 代表 HW 自制

M0: on behalf of HW self-made

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V01. XXX. XX-24V2526XX



示例 example:

DM06-C01M020340001

A08.01-36V2570

产品说明 product manual

规格参数 Specifications

- ① 供电电源: DC 48/60/72V Power supply: DC 48/60/72V
- ② 额定工作电流: 42 mA Rated working current: 42 mA
- ③ 关机漏电流: <1uA Shutdown leakage current: <1uA
- ④ 屏幕规格: 3.5 寸 IPS 高亮度高分辨率液晶屏, 分辨率 320*480

Screen specifications: 3.5-inch IPS high-brightness and high-resolution LCD screen with a resolution of 320*480

- ⑤ 通讯方式: UART Communication method: UART



- ⑥ 使用温度: $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$ Operating temperature: $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$
- ⑦ 存储温度: $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Storage temperature: $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$
- ⑧ 防水等级: IP65 以上 Waterproof rating: above IP65

功能概述 Functional Overview

- ① 单双电机切换功能 Single and double motor switching
- ② 定速巡航功能 Cruise control
- ③ 支持公制/英制切换 Support metric/imperial switch
- ④ 常规显示功能, 速度、里程、电量等指示 Conventional display function, speed, mileage, power and other instructions
- ⑤ 故障代码显示功能, 双电机控制器工况显示
Fault code display, dual-motor controller working condition display
- ⑥ 参数设置功能及高级设置功能 Parameter setting and advanced setting
- ⑦ RTC 模块, 提供实时时钟显示 RTC module, providing real-time clock display
- ⑧ 电子刹车功能 Electronic brake
- ⑨ USB 充电功能 USB charging

安装方式 Installation

- ① 仪表锁紧环包含两种尺寸规格 A 款为 $\Phi 31.8\text{mm}$ 直径, B 款为 $\Phi 25.4\text{mm}$ 直径。请根据实际把横管规格在订单中注明对应的锁紧环尺寸需求。

The instrument locking ring includes two sizes, A model is $\Phi 31.8\text{mm}$ in diameter, and B model is $\Phi 25.4\text{mm}$ in diameter. Please indicate the corresponding locking ring size requirements in the order according to the actual specifications of the horizontal tube.

(紧固操作指示: 将仪表调整到合适的位置, 使用 M3*10 内六角固定并拧紧)



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定螺钉，锁紧力矩：≤0.8 N.m。）

(Tightening operation instructions: Adjust the meter to a suitable position, use M3*10 inner hexagon to fix and tighten the fixing screws, the tightening torque: ≤0.8 N.m.)

***过大扭矩造成的仪表损坏不属于保修范围。**

***Damage to the instrument caused by excessive torque is not covered by the warranty.**

② 将左置的按键开关锁紧环打开后锁固在左侧把横管上，注意中置仪表可以选配左置开关。具体选型规格请参考敝司产品目录册。

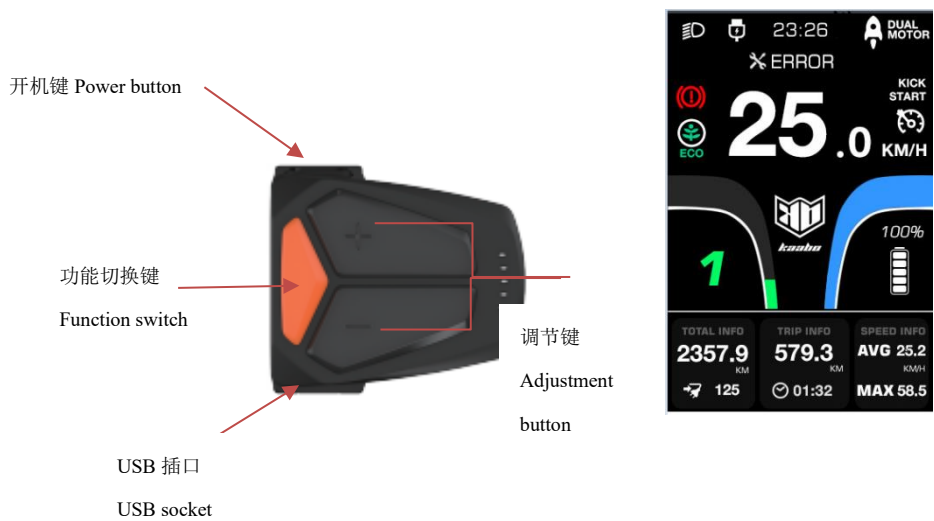
Open the locking ring of the left key switch and then lock it on the left handlebar. Note that the middle instrument can be equipped with a left switch. Please refer to our product catalog for specific selection specifications.

③ 将开关出线插件与仪表，以及仪表插件与控制器对接插件按标示对接。

Connect the switch outlet plug-in with the meter, as well as the meter plug-in and the controller docking connector according to the signs.

1 按键规则 Button rules

1.1 按键名称定义 Button name definition



开机键：进行开关机操作 Power-on button: switch machine operation

调节键：骑行中进行档位的调节以及配合功能切换键进行设置操作

长按调节键可以进行对应的特定功能操作

Adjustment button: adjust the gear position during riding and cooperate with the function switch button for setting operation

Long press the adjustment button to perform the corresponding specific function operation

功能切换键：进行功能显示界面的切换及进入参数设置界面操作

Function switch button: switch the function display interface and enter the parameter setting interface operation

USB 插口：提供充电功能

USB socket: provide charging function

按键操作定义 Button operation definition

操作类型 Operation type	描述 description
短按 Short press	短按是指按下按键然后马上释放按键，当按键弹起时触发相应的功能。 Short press refers to pressing the button and then immediately releasing the button, and the corresponding function is triggered when the button bounces.
长按 Long press	长按是指按键按下并保持按下状态，当按键按下的持续时间超过长按设定时间（通常为 2s）触发相应的功能。 Long press means that the button is pressed and kept pressed. When the button is pressed for longer than the long press set time (usually 2s), the corresponding function is triggered.

2 基本功能操作 Basic function operation

2.1 开/关机 On/off

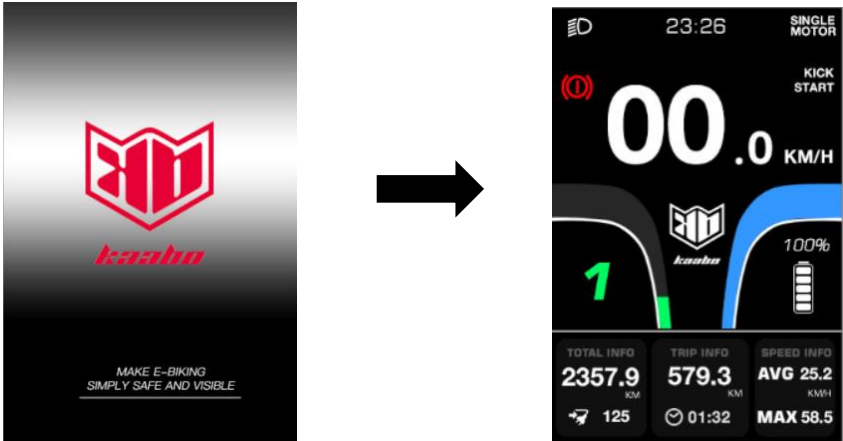
保持仪表与控制器的正常连接状态，在仪表关机状态下长按键，仪表



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开机显示开机 logo 界面，随后正常进入基础界面并开始工作；在开机状态下长按 ，仪表关闭。如果在设定的关机时间内骑行者未对仪表进行任何操作，且速度为 0，且母线电流小于 1A，仪表于设定的关机时间内会自动关闭。
 Keep the instrument and the controller in the normal connection state, long press  key when the instrument is off, the instrument will display the startup logo interface when it is turned on, and then enter the basic interface normally and start to work; long press  in the power-on state, the instrument will turn off. If the rider does not perform any operation on the meter within the set off time, and the speed is 0, and the bus bar current is less than 1A, the meter will automatically turn off within the set off time.

2.2 开机界面 Boot interface



开机 logo Boot logo

开机画面 startup screen

开机时显示开机界面 3 秒，建立通讯连接后仪表进入主界面显示状态，仪表以从控制器通讯获取的信息做实际显示。（显示的数据信息根据客户提供的通讯协议执行）When power on, the boot interface will be displayed for 3 seconds. After the communication connection is established, the instrument enters the main interface display state, and the instrument uses the information obtained from the controller communication for actual display. (The displayed data information is executed

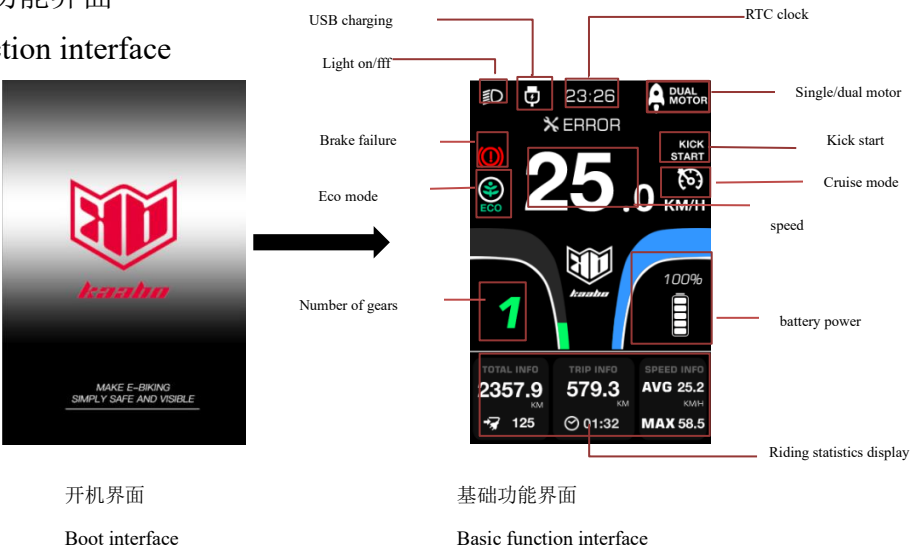


according to the communication protocol provided by the customer)

3 基础界面及操作按键 Basic interface and operation butto

3.1 开机界面及基础功能界面

Boot interface and basic function interface



开机后显示开机 logo 界面 3 秒，仪表建立通讯并正常获取信息后进入正常骑行显示界面。After booting, the boot logo interface will be displayed for 3 seconds. After the instrument establishes communication and obtains information normally, it enters the normal riding display interface.

仪表依据通讯协议读取控制器存储的相关信息做显示，读取电池 BMS 信息做显示，其余信息实时显示。The meter reads the relevant information stored in the controller for display according to the communication protocol, reads the battery BMS information for display, and displays the rest of the information in real time.

基础功能界面包含实时速度、电量信息、档位、时钟信息、开灯指示、单双电机模式、USB 充电、巡航模式、缓启动、刹车状态、eco 节能模式连接状态以及骑行统计数据显示。

The basic function interface includes real-time speed, power information, gears, clock information, light on instructions, single and double motor modes, USB charging, cruise mode, slow start, brake status, eco energy-saving mode connection status, and cycling statistics display.



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4 基本操作功能 Basic operation

4.1 档位切换 Gear shifting

开机状态下，在主界面操作加挡/减挡按键，加减档位。

In the power-on state, operate the up/down button on the main interface to increase or decrease the gear position.



4.2 大灯功能 Headlight function

开机状态下，通过车灯开关控制车灯开启，主控制器检测开灯状态并返回状态值到仪表，仪表根据接收到的通讯数据，在页面左上角显示大灯开启图标。

大灯开启后仪表背光亮度减半。

In the power-on state, the lights are controlled by the light switch. The main controller detects the light-on state and returns the status value to the instrument. The instrument displays the headlight on icon in the upper left corner of the page according to the received communication data.

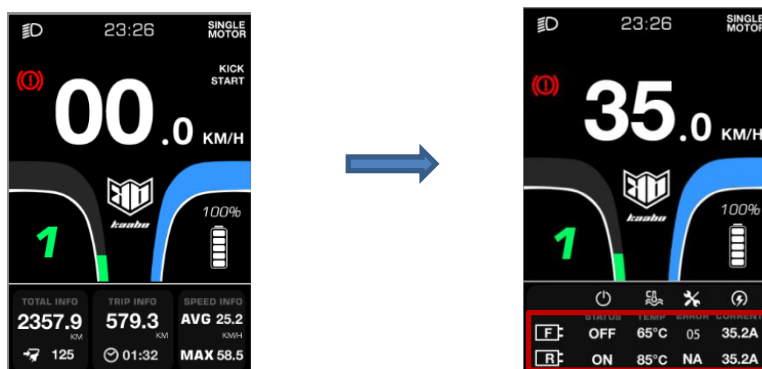
When the headlights are turned on, the brightness of the instrument backlight is reduced by half.



4.3 信息切换页面 Information switching page

开机状态下，在主页面短按 M 键可以切换至信息页面(仪表在底部状态显示区域，根据控制器的反馈值显示前/后电机开启状态、温度状态、异常状态和电流状态属性相对应的值)

In the power-on state, short press the M button on the main page to switch to the information page (the indicator is in the status display area at the bottom, and according to the feedback value of the controller, the front/rear motor on status, temperature status, abnormal status and current status are corresponding to the attributes value)



5 功能显示介绍 UI introduction

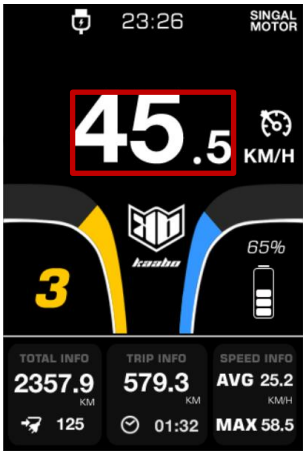
5.1 车速显示 Speed

根据控制器回传获得数据显示实时车速，单位默认 KM/H（可以通过用户配置进行修改单位）。

According to the data returned by the controller, the real-time vehicle speed is

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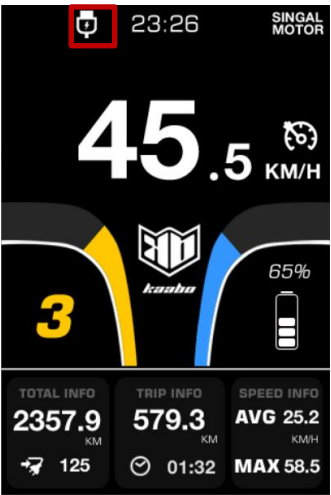
displayed, and the unit defaults to KM/H (the unit can be modified through user configuration).



5.2 USB 充电显示 USB charging

当 USB 接口有连接设备进行充电时，控制器返回充电指示状态，仪表接收状态指令后在顶部显示充电图标.

When the USB interface is connected to the device for charging, the controller returns to the charging indication state, and the meter displays the charging icon on the top after receiving the status command.



5.3 时间显示 time

仪表可以显示当前时间。当前时间可以通过设置界面进行设置修改。
 The meter can display the current time. The current time can be set and modified

through the setting interface.



5.4 单电机模式显示 Single motor mode

仪表默认单电机模式，单电机状态只开启后轮电机进行工作，单电机工作仪表右上角显示 **SINGLE MOTOR**。

The instrument defaults to the single-motor mode. In the single-motor state, only the rear-wheel motor is turned on to work, and the single-motor working instrument displays on the upper right corner **SINGLE MOTOR**.



5.5 双电机模式显示 Dual motor mode

双电机开启后仪表右上角图标亮起

仪表单电机工作状态下，长按[^]键，开启双电机模式，控制器接收到命令开启前轮电机，仪表右上角显示 **DUAL MOTOR**。

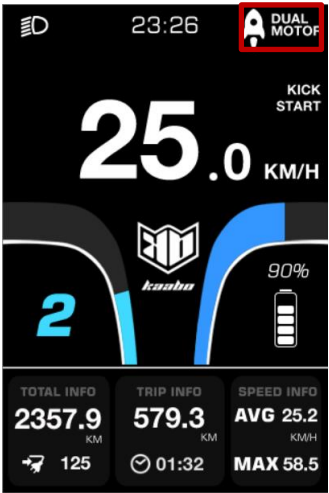
The icon in the upper right corner of the meter lights up after the dual motors are



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turned on

In the single-motor working state of the meter, press  and hold the key to turn on the dual-motor mode, and the controller will receive the command to turn on the front-wheel motors, and the upper right corner of the meter will display .



5.6 刹车状态显示 Brake state

用户操作电子刹车后，控制器接收到刹车状态信号，切断电机供电同时反馈刹车状态值给仪表，仪表接收到后显示 .

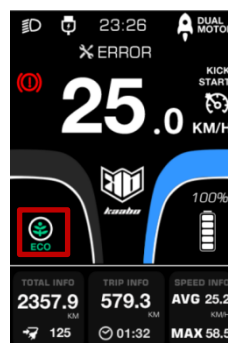
After the user operates the electronic brake, the controller receives the brake status signal, cuts off the power supply of the motor and feeds back the brake status value to the meter, and the meter displays  after receiving it.



5.7 eco 模式显示 eco mode

仪表当前档位是 1 档时，短按  键进入 eco 挡，仪表界面亮 ，改变档位可退出节能模式。

When the current gear of the instrument is in gear 1, short press  to enter the eco gear, the  on display is on , and the energy saving mode can be exited by changing the gear.



5.8 巡航模式 Cruise mode

整车定义巡航状态有三种模式：OFF/AUTO/MANUAL。用户可以进入高级设置菜单中选择对应的巡航功能状态。

OFF 状态： 巡航功能关闭，高级设置内选择 OFF 选项时，关闭巡航（系统默认 OFF），用户无法触发定速巡航，仪表界面不显示相关图标。

AUTO 状态： 自动巡航状态，在用户选择 AUTO 模式后，仪表开机显示白色自动巡航图标 ；自动巡航状态下，由转把控制车速，控制器自动判断是否进入

巡航状态。当车速稳定并进入巡航状态后，仪表显示绿色定速巡航图标 .

MANUAL 状态： 手动巡航状态，在用户选择 manual 模式后，系统进入续航功能手动控制状态，仪表显示白色图标 。定速巡航手动控制模式下，如果长按下键可以直接进入定速巡航状态，巡航速度以当前操作时速设定，仪表显示绿色定速巡航图标 .

There are three modes for defining the cruise state of the vehicle: OFF/AUTO/MANUAL. The user can enter the advanced setting menu to select the corresponding cruise function state.

OFF state: The cruise function is turned off. When the OFF option is selected in the advanced settings, the cruise is turned off (the system defaults to OFF), the user cannot trigger the cruise at a constant speed, and the screen does not display related

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icons.

AUTO state: automatic cruise state. After the user selects the AUTO mode, the meter will display a white auto cruise icon  when it is turned on; in the automatic cruise state, the speed of the car is controlled by the handlebar, and the controller automatically judges whether it enters the cruise state. When the vehicle speed is stable and enters the cruise state, the instrument displays a green cruise control icon .

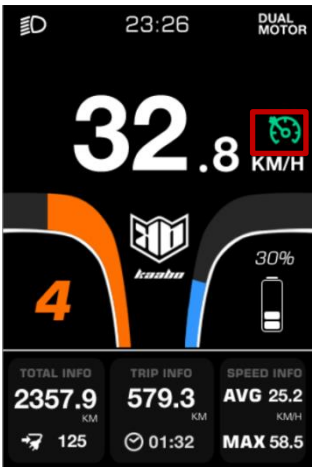
MANUAL status: Manual cruise status. After the user selects the manual mode, the system enters the endurance function manual control status, and the instrument displays a white icon . In the manual control mode of cruise control, if you press and hold the key, you can directly enter the cruise control mode. The cruise speed is set at the current operating speed, and the instrument displays a green cruise control icon .

定速巡航状态下，退出巡航条件：

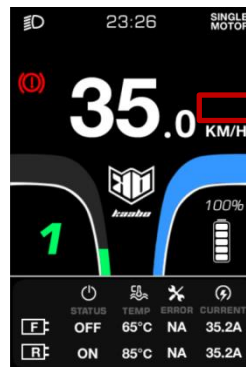
1. 用户转动转把，控制器侦测转把电压变化后，退出巡航状态。
2. 用户操作电子刹车，控制器侦测到刹车状态，则退出巡航状态

In the cruise state, exit the cruise condition:

1. The user turns the handle, and the controller detects the voltage change of the handle and exits the cruise state.
2. The user operates the electronic brake, and the controller detects the brake state and exits the cruise state



5.9 巡航模式显示-未设置巡航模式 Cruise mode-without set the cruise mode



5.10 非零启动功能 kick start

用户在一级设置菜单设置“KICK START”选项为 ON 值时（系统默认 ON），系统进入非零启动状态，仪表界面显示 **KICK START**，非零启动状态下，整车需要在速度大于零的情况下，才能允许用户通过转把启动；零启动状态下（KICK START 为 OFF 值时），允许用户在零速度下直接转把启动。

When the user sets the "KICK START" option in the first-level setting menu to the ON value (the system defaults to ON), the system enters a non-zero start state, and the instrument interface displays **KICK START**. In the non-zero start state, the whole vehicle needs to be at a speed greater than zero. In order to allow the user to start through the handlebar; in the zero start state (when KICK START is OFF), the user is allowed to directly turn the handlebar to start at zero speed.



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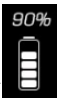
5.11 开机密钥功能 Power-on password

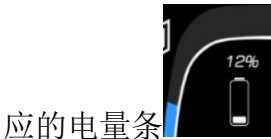
密码设置功能分为分别是“GREETING”“ADVANCED SET”（默认 OFF，未设置过情况下，高级设置默认密码 “1500”），“GREETING”和“ADVANCED SET” 菜单选 “ON” 开启任意其中一个， 另一个也默认被开启且密码相同， 同理其中一个选 “OFF” 关闭， 另一个也默认被关闭。

The password setting functions are divided into "GREETING" and "ADVANCED SET" (default OFF, if not set, the default password for advanced settings is "1500"), and select "ON" in the "GREETING" and "ADVANCED SET" menus to turn on either , The other is also turned on by default with the same password. Similarly, one of them is turned off by selecting “OFF” , and the other is turned off by default.



5.12 电量显示 Power display

仪表根据控制器返回的电池信息并且显示，仪表根据电池的容量显示对

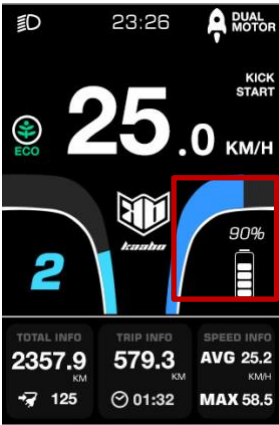
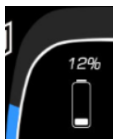


应的电量条

The screen displays the battery information returned by the controller, and



the screen displays the corresponding power bar according to the battery capacity



电池容量百分比及电量显示图标对应表如下（需 BMS 或控制器提供电量百分比）: The corresponding table of battery capacity percentage and power display icon is as follows (need BMS or controller to provide power percentage):

余量百分比信息 Remaining battery percentage information	电池条指示 Battery indicates	说明 explanation
$80\% \leq \text{SOC}$		显示满格（5 格） Show full grid (5 grids)
$60\% \leq \text{SOC} < 80\%$		显示4 格 Show 4 grids
$40\% \leq \text{SOC} < 60\%$		显示3 格 Show 3 grids
$20\% \leq \text{SOC} < 40\%$		显示2 格 Show 2 grids



10% ≤SOC < 20%		显示1 格 Show 1 grid
5% ≤ SOC < 10%		显示0 格 Show 0 grid
0% ≤ SOC < 5%		显示 0 格，并且电池符号 1Hz 闪烁 show 0 grid, and the battery symbol 1Hz flashes

5.13 平均速度、最大速度显示 Average speed, maximum speed

仪表根据电机转动的速度计算后控制器回读给仪表，并分别记录 TOTAL、TRIP、AVG、MAX，骑行时间。

After the meter calculates the speed of motor rotation, the controller reads back to the meter, and records TOTAL, TRIP, AVG, MAX, and riding time respectively.



5.14 故障信息显示 Fault information display

仪表可以对整车故障做提示警示，在检测到故障时仪表界面显示故障码，并



以 1Hz 闪烁。当出现故障码时，仪表的按键功能不受影响，即在故障代码显示情况下，进行按键操作可以返回正常显示界面。如无任何按键操作，仪表在 5S 后回到故障代码显示，错误代码界面显示如下：

The instrument can prompt and warn the failure of the whole vehicle. When the fault is detected, the interface of the instrument will display the fault code and flash at 1Hz. When a fault code appears, the key function of the instrument is not affected, that is, when the fault code is displayed, the key operation can return to the normal display interface. If there is no key operation, the meter will return to the fault code display after 5S, and the error code interface will display as follows:.



错误代码	故障说明
在信息切换页面底部显示“1”	电机缺相
在信息切换页面底部显示“2”	霍尔故障状态
在信息切换页面底部显示“4”	转把故障状态
在信息切换页面底部显示“5”	欠压保护状态
在信息切换页面底部显示“6”	控制器故障状态
在信息切换页面底部显示“7”	通讯故障
在信息切换页面底部显示“8”	过温保护

error code	Failure description
Display 1 at the bottom of the information switching page	Motor phase loss
Display 2 at the bottom of the information switching page	Hall fault status
Display 4 at the bottom of the information switching page	Handlebar failure status
Display 5 at the bottom of the information switching page	Undervoltage protection status
Display 6 at the bottom of the information switching page	Controller failure status



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Display 7 at the bottom of the information switching page	communication fail
Display 8 at the bottom of the information switching page	Over temperature protection



错误代码	故障说明
在速度处显示“30”	仪表通讯故障

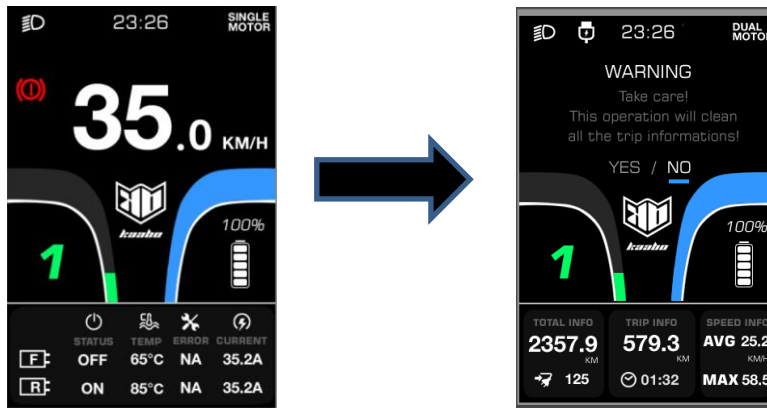
error code	Failure description
Display 30 at the speed area	Instrument communication failure

5.15 骑行信息清除 Riding information clear

仪表开机后 10s 后，长按 M 键页面弹出小计里程清除提示，选 YES 清除小计里程、骑行时间、平均速度、最大速度（保留总里程和充电次数）。

10s after the meter is turned on, long press the M button to pop up the subtotal mileage clearing prompt on the page, select YES to clear the subtotal mileage, riding time, average speed, and maximum speed (retain total mileage and number of charges).





6 用户配置功能 User configuration

用户配置功能如下，分为一级菜单和二级菜单。

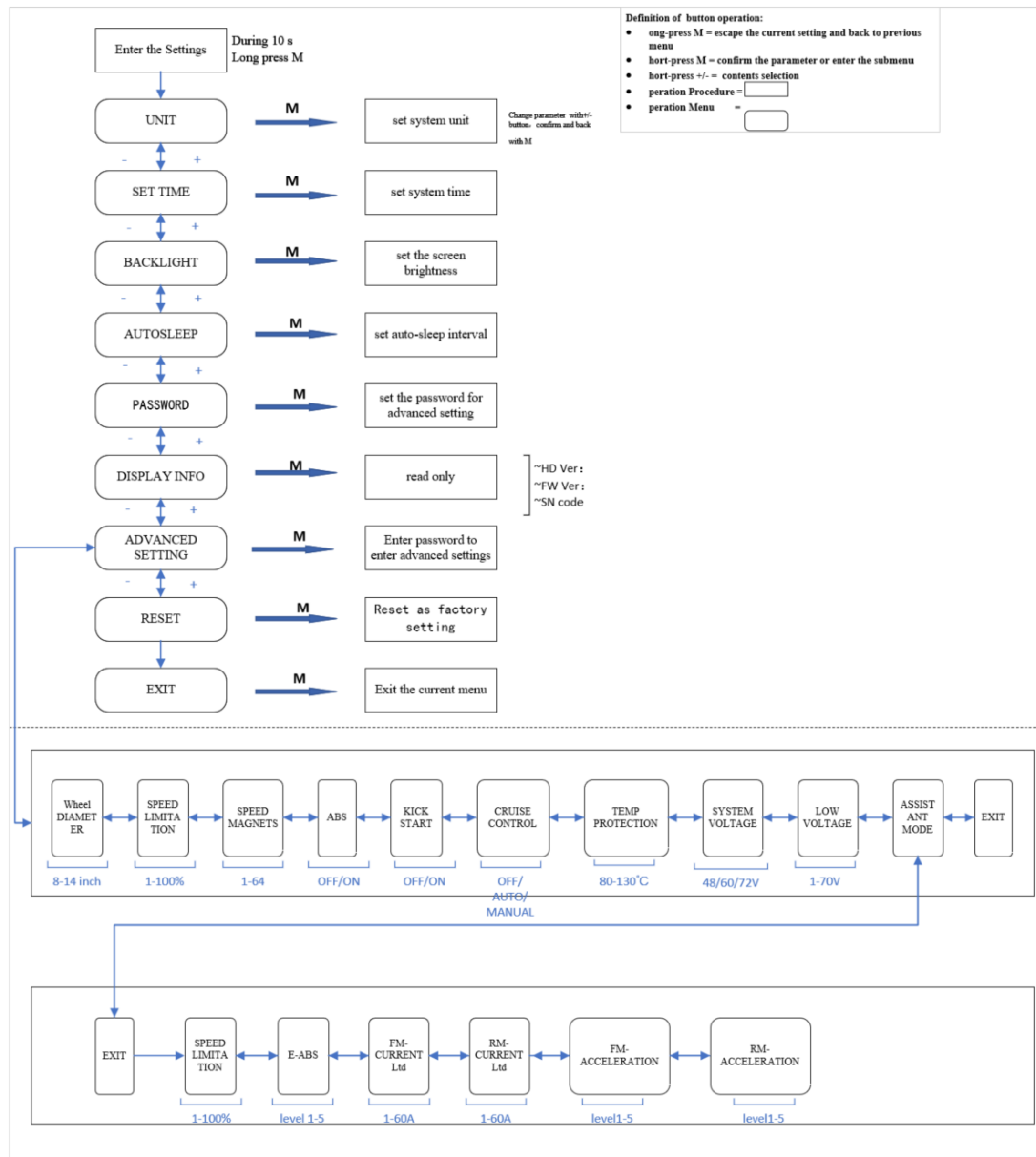
The user configuration functions are as follows, divided into a first-level menu and a second-level menu.

23:26	23:26
SETTING	ADVANCED SETTING
EXIT	Wheel Diameter 12inch >
UNIT KM/H >	Speed Limitation 100% >
SET TIME 23:26 >	Speed Magnets 1 >
BACKLIGHT LEVEL 1 >	ABS ON >
AUTO SLEEP 5 min >	Kick Start ON >
PASSWORD OFF >	Cruise Control OFF >
DISPLAY INFO >	Temp Protection 80°C >
ADVANCED SETTING >	System Voltage 72V >
RESET >	Low Voltage 62.5V >
EXIT >	Assistant Mode Digital 3 >
	EXIT

设置菜单目录示意图

Schematic diagram of setting menu directory





操作方法 Method of operation

在仪表开启后的 10s 内长按 M 键进入基础设置界面

在设置界面内长按 M 键退出设置页面（或返回上一级菜单）

在设置界面内通过短按 ^、V 进行菜单选择（或参数修改编辑），短按 M 键进入菜单（或确定需要跟换的状态）

Long press the M key within 10s after the meter is turned on to enter the basic setting interface

In the setting interface, long press the M key to exit the setting page (or return to the previous menu)

In the setting interface, short press ^ v to select the menu (or parameter modification and edit), and short press the M key to enter the menu (or confirm the state that needs to be changed)

