

E-bike HMI Console User Manual

ELITE-B_Smart remote-CT-1

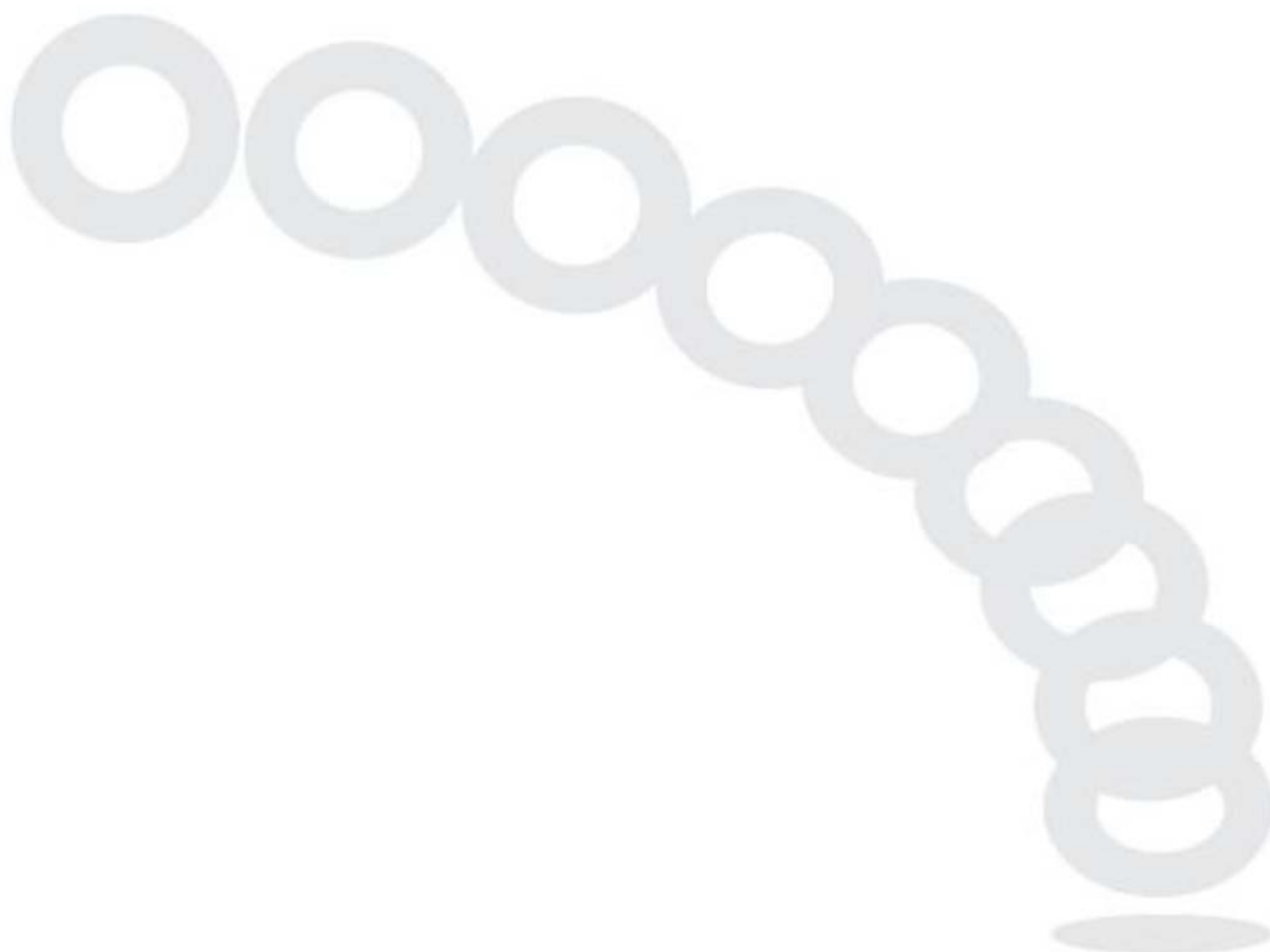


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Purpose

The purpose of this document is to provide users with basic instructions for using the ELITE-B.

The Electrical Power Assist Bicycle equipped with ELITE-B can refer to this manual for operation and setting.

Features include :

- Headlight switch.
- Switch gear to adjust power assist level.
- Collect bike information, including the controller/battery.
- Statistics and display of riding data, including speed/cadence/battery/ODO/time, etc.
- Bike settings, including hibernate mode/BLE pairing/brightness/time, etc.
- Connect with the Arion app by SINBON to access additional extended features.

Recommended to read this manual before using.

The pictures in the manual are examples, if there is any discrepancy with the actual picture, please refer to the actual picture.

一、Power On/Off and Button Definition

• Power On

Long press the power button 3 seconds to turn on.

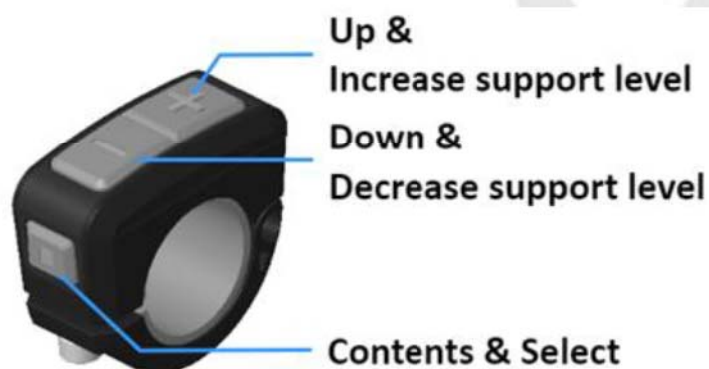


• Power Off

Long press the power button 3 seconds to turn off.



• Button Definition



二、Bike activation password

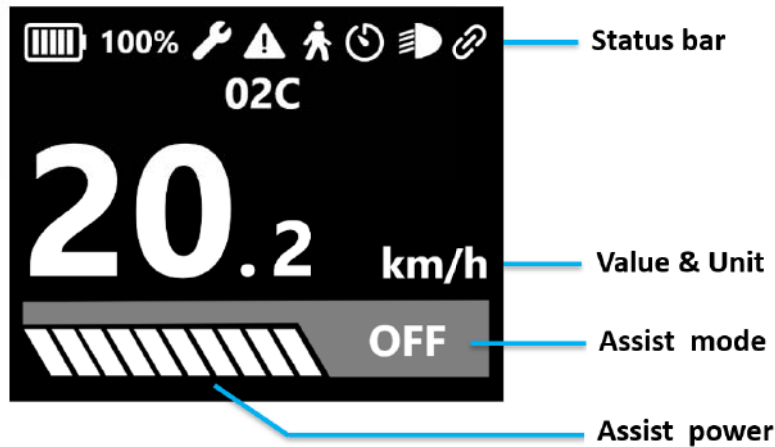
After Console is turned on, you need to enter 4-digit password to enter the main screen, the default password is 0000, and it can be changed later through the Arion app.

Note :

1. If the password authentication fails, you will not be able to access the main screen, and the bike will not have power assistance.
2. The bike activation code input process will not occur in the following two scenarios:
 - Turn off the bike activation code function from the arion app.
 - When console is turned on, use the arion app connect to the console. It will pass this step automatically.



≡ 、 Display Introduction

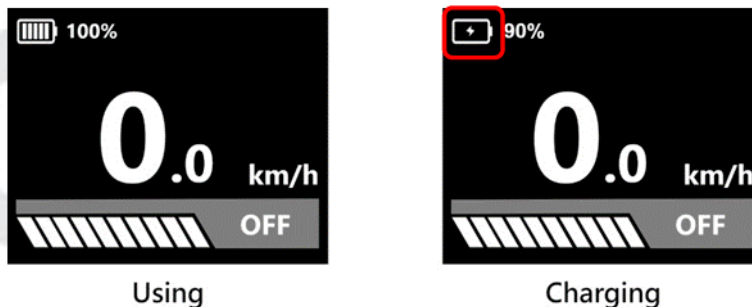


The assist power is the assist power of the current motor.

3.1 Status Bar Indication

- **Battery**

Display Battery Level and Percentage. when charging, The charging icon will shown on screen.



- **Maintenance Reminder**

When the bike reaches the maintenance mileage, this icon will appear.



- **Error warning**

When the bike experiences abnormalities, it will display error warnings along with corresponding error codes. Please refer to 五. Troubleshooting.



- **Walk assist mode**

Hold down button“  ”to turn on the walk assist mode, release button will exit walk assist mode.



- **Riding**

This icon will appear when you start riding. Please refer to **4.1 Trip Setting**.



- **Headlights**

There are two ways to turn on/off the headlights, and the headlight switch status will be displayed on the main screen:

- 1.Short press the power button to turn on/off the light.
- 2.From the "Light Setting" in the menu, you can turn on/off the headlights.

Please refer to **4.2 Light Setting**.



- **Bluetooth Connection Status**

This icon will appear when the console is connected to the Arion app via Bluetooth.Please refer to **4.3 BLE Pairing**.



3.2 Assist Mode and Support Level Introduction

Use the button “” & “” to switch between assist modes.

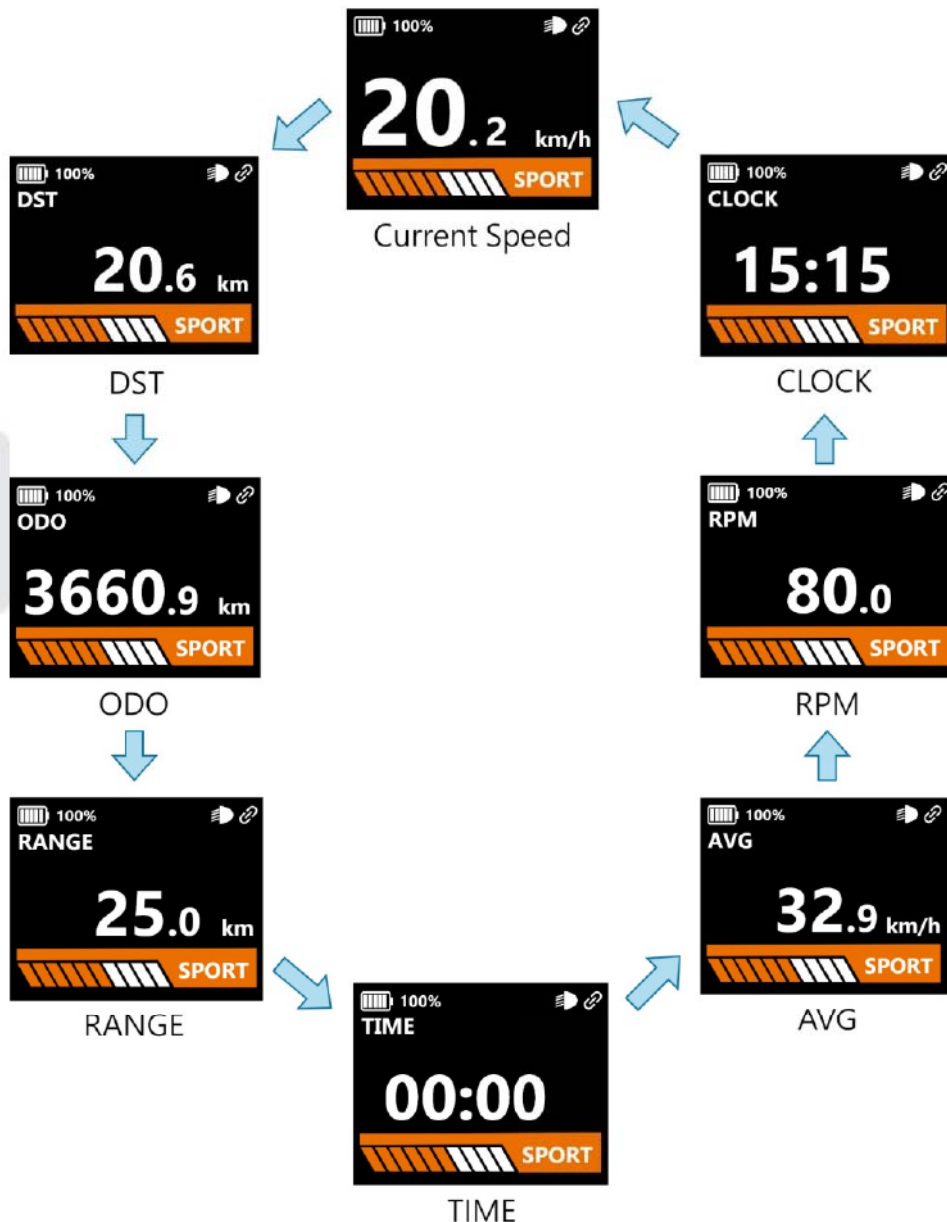


3.3 Introduction to Each Page of the Main Screen

You can switch the content on the main screen by using the select button "  "

Includes: Speed 、DST(km or mile) 、RANGE 、Avg. Speed (Km/h or mph) 、Trip Time (Min.) 、ODO (km or mile) 、RPM and Clock (CLOCK).

Note : you can customize the display of each page through the Arion app.



四、User Setting

Long-press select button " 

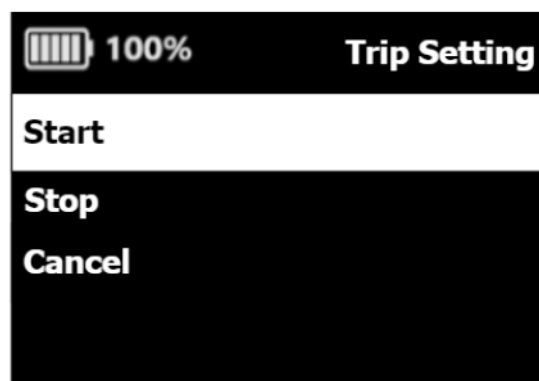
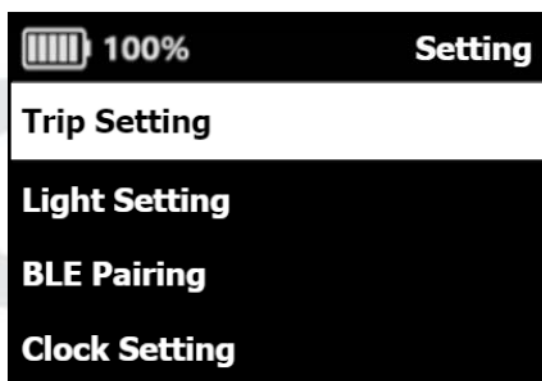
In each settings page, long press the select button will take you back to the previous page.

4.1 Trip Setting

Setting the start and end of the ride.

Start: Initiate recording. Pause: Pause recording temporarily.

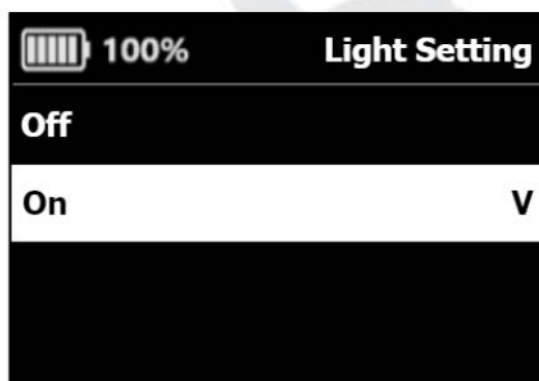
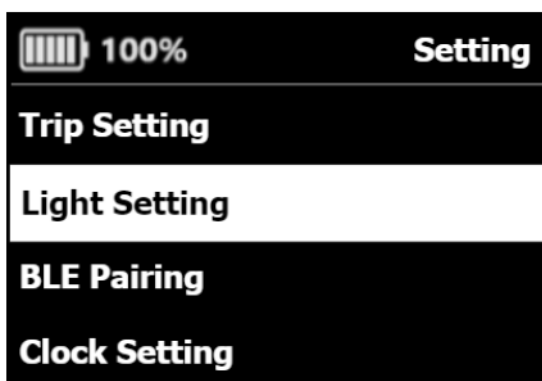
Stop: Stop recording. Cancel: Go back to the previous page.



4.2 Light Setting

Off : turn off the headlight.

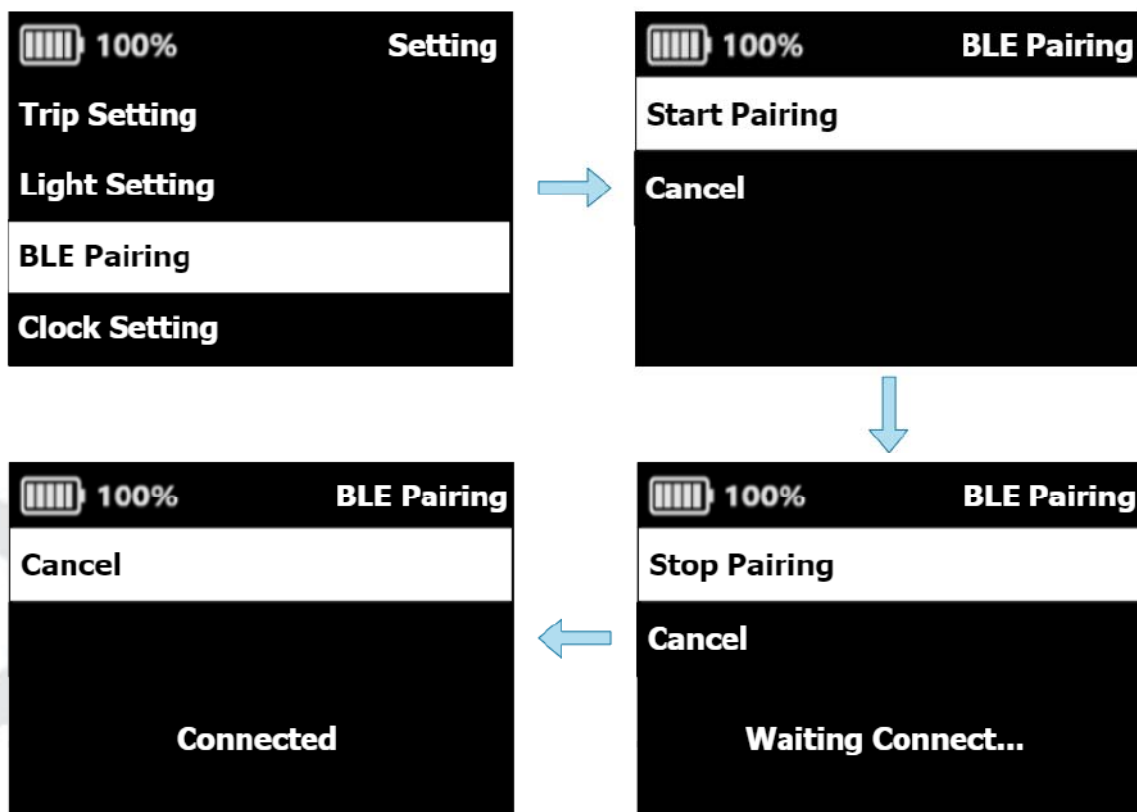
On : turn on the headlight.



4.3 Bluetooth Pairing

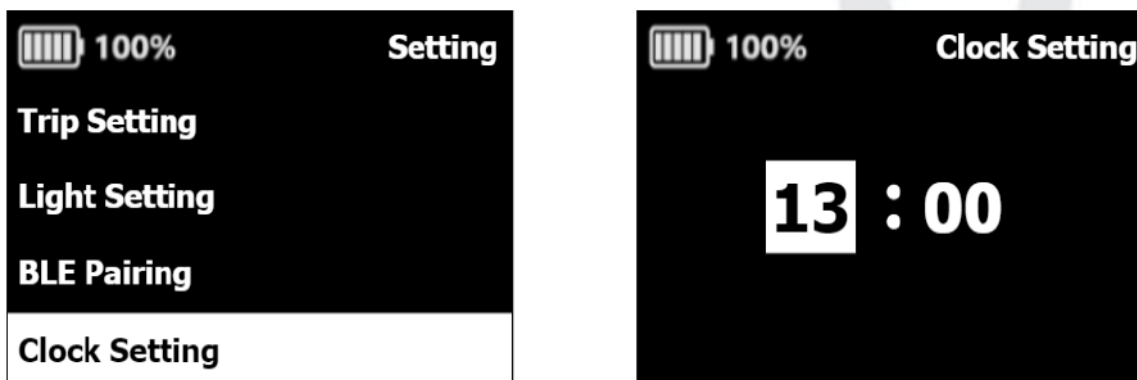
Pair the instrument panel with the Arion app via Bluetooth, Only necessary for smartphones that haven't been paired before .

The pairing mode will automatically turn off after three minutes and return to the Bluetooth connection waiting status.



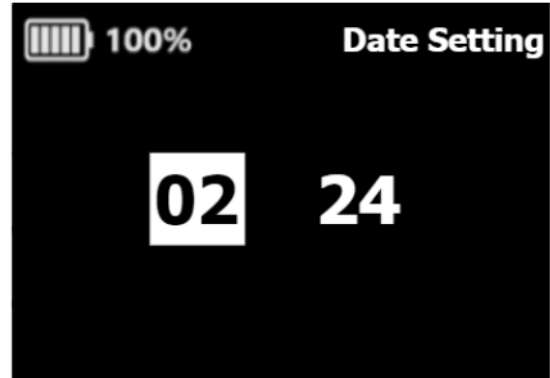
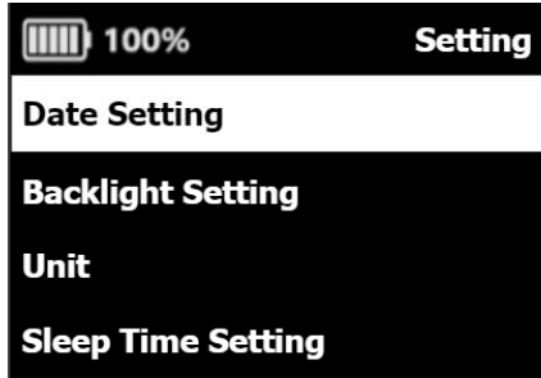
4.4 Clock Setting

The time will be calibrated automatically when arion app is connected with Console.



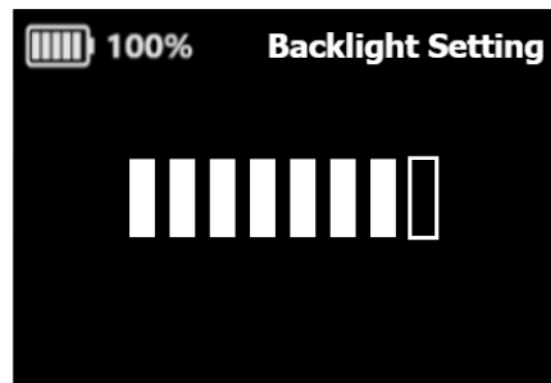
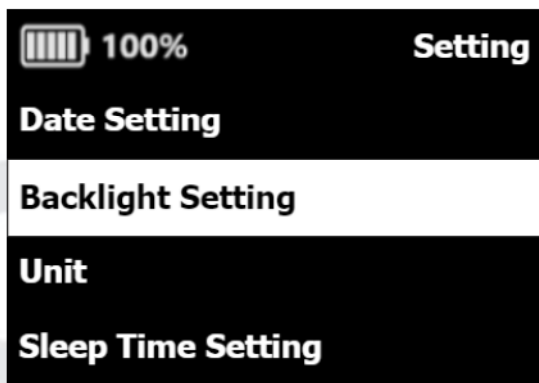
4.5 Date Setting

The date will be calibrated automatically when arion app is connected with Console.



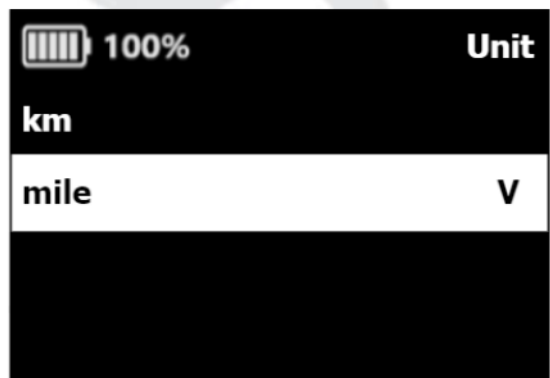
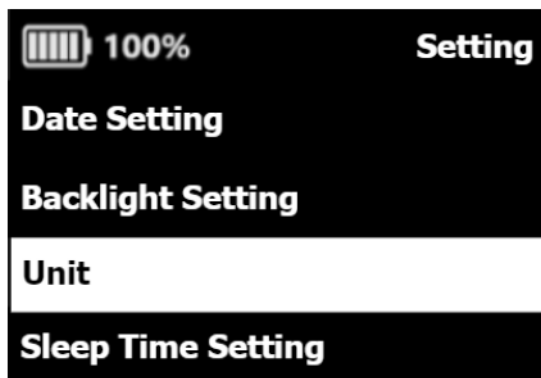
4.6 Backlight Setting

The brightness can be adjusted from level one (dimpest) to level eight (brightest).



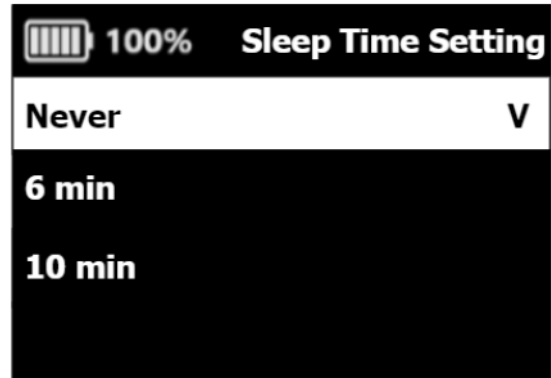
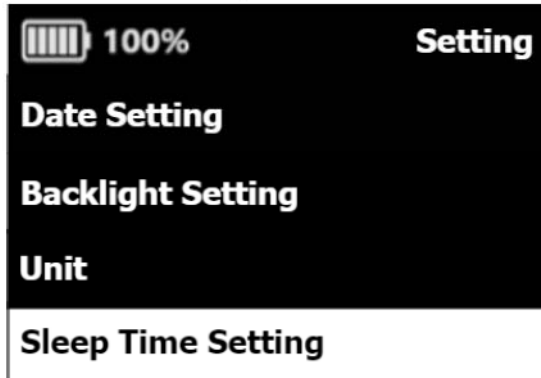
4.7 Unit

Choose between the Imperial Unit and Metric Unit.



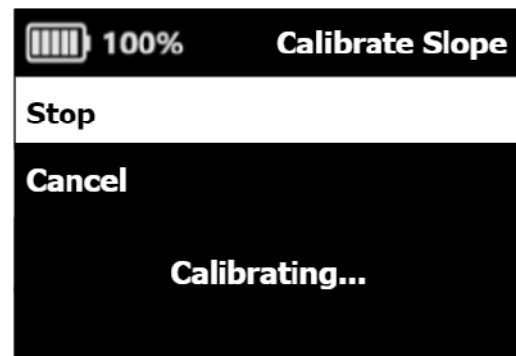
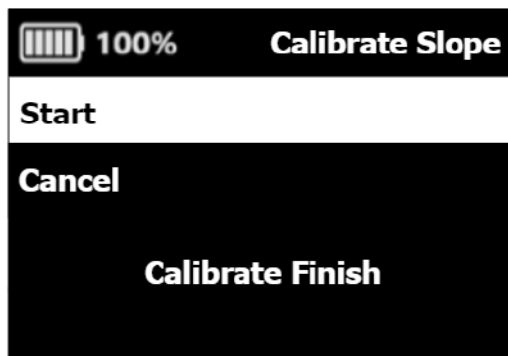
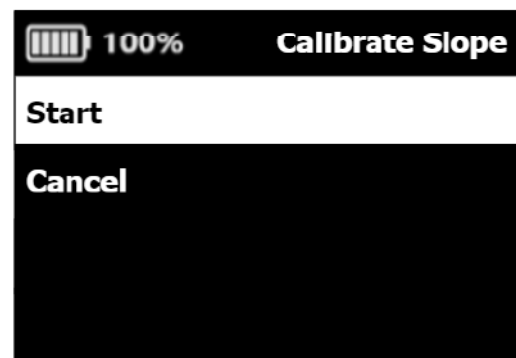
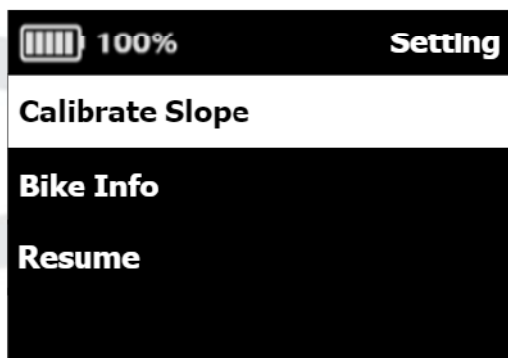
4.8 Sleep Time Setting

Set console sleep time.



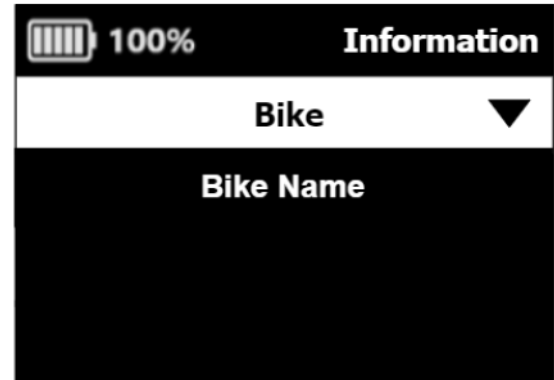
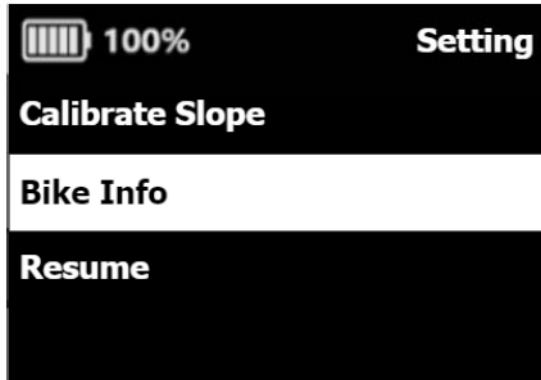
4.9 Calibrate Slope

To calibrate the slope detection, return the handlebar at forward position, press "Start" and keep the bike stationary until Calibrate Finish is displayed.



4.10 Bike Info

Displays information about the bike.



五、Troubleshooting

Definition□	Error Code	Alert	Action	Troubleshooting□
Motor	M001	Controller-Over Temperature	Shut Down	
	M002	Overcurrent	Shut Down	1. Ensure proper connection and good contact of the wiring. 2. Replace the motor. 3. Replace the motor controller
	M003	Three phase wire failure	Shut Down	1. (a) Avoid unusual locked rotor presence. (b) Replace the controller. 2. Ensure a good connection between the motor and the controller
	M004	Undervoltage	Shut Down	1. Charge the battery promptly or replace it. 2. Replace the motor controller.

	M005	Brake detection failure	Shut Down	1. Replace the brake. 2. Replace the motor controller.
	M006	Hall sensor failure	Shut Down	1. Ensure a good connection between the motor and the controller. 2. Replace the motor. 3. Replace the motor controller. 4. Ensure proper grounding connection.
	M007	Throttle failure	Shut Down	1. Replace the throttle. 2. Replace the motor controller. 3. Ensure proper grounding connection.
	M009	Overvoltage	Shut Down	1. Replace the battery with the correct model. 2. Replace the motor controller.□
	M010	No display signal received	Shut Down	1. Check the connection between the controller and the instrument panel communication cable to ensure a good contact. 2. Replace the display. 3. Replace the motor controller.

Motor	M020	Speed sensor malfunction□	Shut Down	1. Please check the receiver end of the speed sensor for any loose or damaged signal wires. If there are connectors, try disconnecting and reconnecting them. 2. Verify the position and orientation of the speed sensor magnet and ensure that the sensing distance meets the
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				standard requirements. 3. Inspect the signal wires of the speed sensor for any signs of damage.
Console	C048	Communication failure	Shut Down	1.Ensure a good connection between the controller and the instrument panel communication cable. 2. Replace the display. 3. Replace the motor controller.
Battery	B000	Main battery - High discharge current	Shut Down	Remove the battery from the frame and inspect the motor controller for any damage.
	B001	Main battery - Short circuit during discharge	Shut Down	Remove the battery from the frame and inspect the motor controller for any damage.
	B002	Main battery - High voltage	Shut Down	Please stop charging the battery! Please verify that you are using the correct charger, and discharge the battery until the overvoltage protection is removed.
	B003	Main Battery - Low voltage□	Shut Down	Check the output voltage of the battery pack. If the output voltage is below 28V, please charge the battery pack.
	B004	Main battery - High temperature during discharge	Shut Down	If you notice that the temperature of the battery pack is too high when touching the surface, please set it aside and wait for the battery pack temperature to decrease

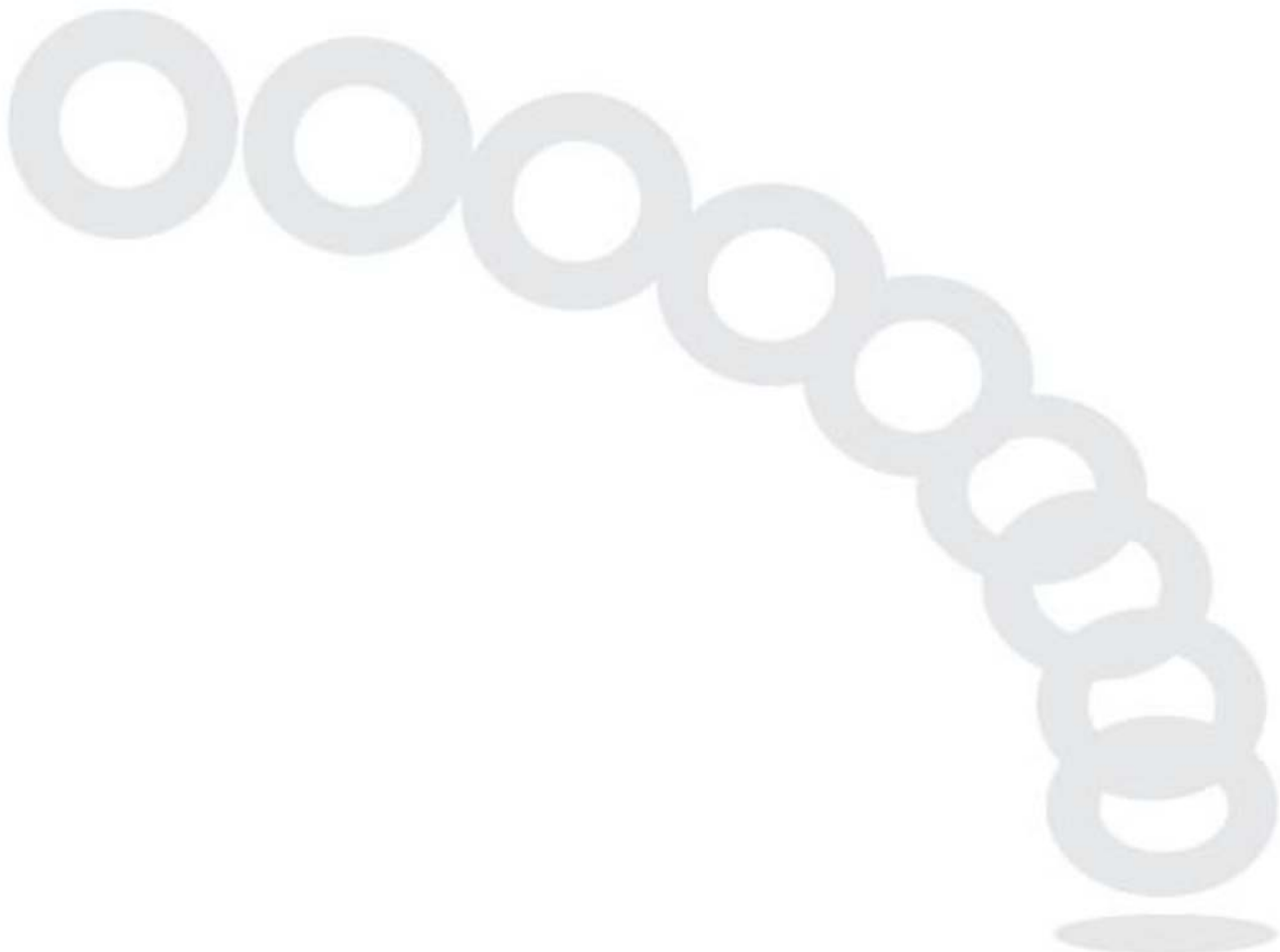
				below the temperature threshold for high-temperature protection.
	B005	Main battery - High temperature during charging	Shut Down	If you touch the surface of the battery pack and notice that the temperature is too high, please set it aside and wait for the battery pack temperature to decrease below the temperature threshold for high-temperature protection.
	B006	Main battery - Low temperature during discharge	Shut Down	If you touch the surface of the battery pack and notice that the temperature is too low, please try to increase the temperature of the battery pack. However, if the temperature is below 0 degrees Celsius, please refrain from attempting to charge the battery pack.

Battery	B007	Main battery - Low temperature during charging	Shut Down	If you touch the surface of the battery pack and notice that the temperature is too low, please try to increase the temperature of the battery pack. However, if the temperature is below 0 degrees Celsius, please refrain from attempting to charge the battery pack.
	B008	Main battery - High charging current	Shut Down	Stop discharging or remove the charger.
	B009	Main battery -	Shut Down	Without this feature yet.

		Charging error occurred		
	B010	Main battery - Open circuit detected	Shut Down	Please send it to the original manufacturer for repair or replacement.
	B011	Main Battery - Battery cell abnormality detected	Shut Down	Please send it to the original manufacturer for repair or replacement.
	B012	Main Battery - AFE fault	Shut Down	Please send it to the original manufacturer for repair or replacement.
	B064	Main battery - Communication abnormality	Shut Down	1. Ensure a good connection between the controller and the display communication cable. 2. Replace the display.
	B099	Main battery - Low Battery health	Shut Down	Replace the battery.□
	B100	Auxiliary battery - High discharge current	Shut Down	
	B101	Auxiliary battery - Short circuit during discharge	Shut Down	
	B102	Auxiliary battery - High voltage	Shut Down	
	B103	Auxiliary battery - Low voltage	Shut Down	

	B104	Auxiliary battery - High temperature during discharge	Shut Down	
	B105	Auxiliary battery - High temperature during charging	Shut Down	
	B106	Auxiliary battery - Low temperature during discharge	Shut Down	
	B107	Auxiliary battery - Low temperature during charging	Shut Down	
Battery	B108	Auxiliary battery -High charging current	Shut Down	
	B109	Auxiliary battery - Charging error occurred	Shut Down	
	B110	Auxiliary battery-Open circuit detected	Shut Down	
	B111	Auxiliary battery - Battery cell abnormality	Shut Down	

		detected.		
	B112	Auxiliary battery - AFE fault	Shut Down	
	B164	Auxiliary battery - Communication abnormality	Shut Down	
	B199	Auxiliary battery - Low Battery health	Shut Down	

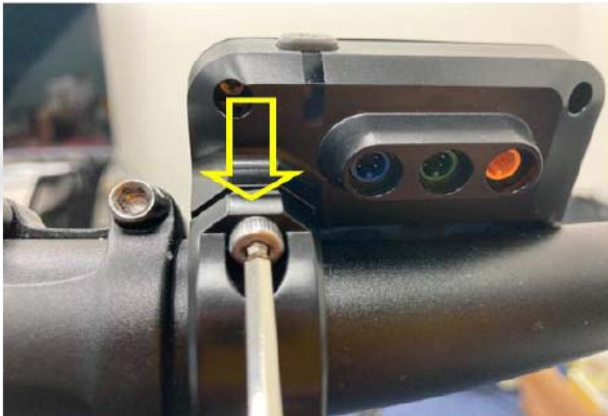


六、Installation Instructions

1.Place the gray rubber ring on the handlebar installation position.



2.Use an Allen wrench to lock the console in the appropriate position on the bicycle handlebar.



3.Use an Allen wrench to lock the button switch in the appropriate position on the handlebar.



4. Insert the button cable connector (blue) into the corresponding socket (blue) on the back of the console.



5. Assembly is complete.



七、Important Reminders

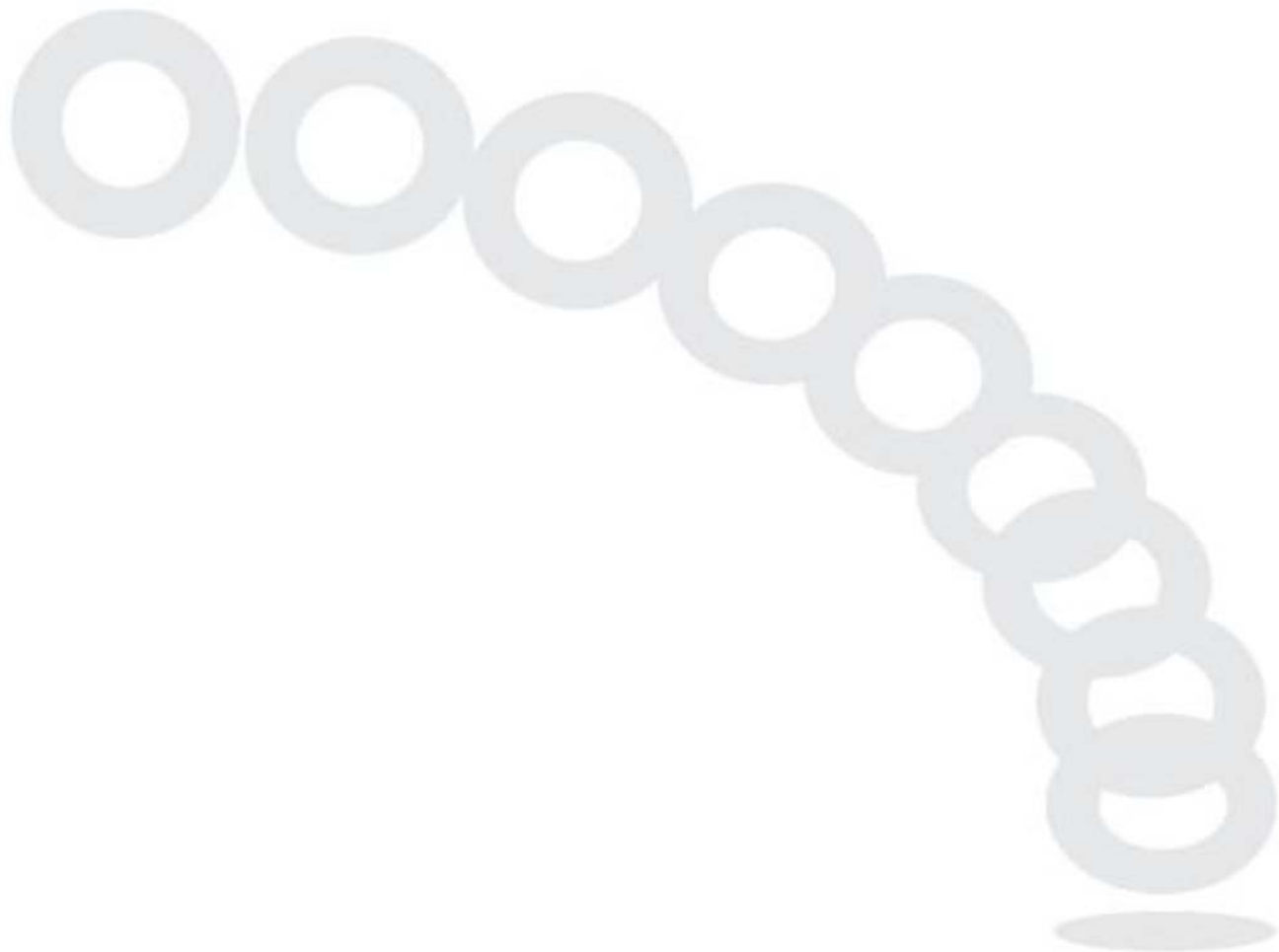
1. Prohibited Modifications: It is strictly prohibited to modify or alter the installation position of the instrument panel without authorization. For safety reasons, if any modifications are required, please contact the original manufacturer and follow their provided instructions for maintenance.
2. Cleaning Instructions: Do not use steam, high-pressure water guns, or direct water from a faucet to clean the product. This can cause damage to electrical circuits. It is recommended to use a soft cloth or slightly damp cloth for cleaning.
3. Safety Concerns: If any component of the instrument panel is missing, damaged, or in any condition that compromises safety, it should be repaired before riding.



八、NCC 警語及 FCC Statement

「取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。」

This product is compliant with Directives 2014/30/EU , 2014/35/EU, 2014/53/EU and 2011/65/EU.



FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.