



HMW Assist System 1.0 USER MANUAL

US A1



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1. Preface

1.1 Welcome Message and Acknowledgments

Dear User:

Thank you sincerely for choosing the HIMIWAY brand electric assist bicycle. The HMW Assist System integrates four core advantages: smart auto mode, real-time torque/cadence switching, multi-parameter adjustability, and global OTA upgrades, aiming to provide you with a more efficient and comfortable assist experience during your rides.

To ensure your safe and correct use of this system and to fully utilize its performance, please read this manual carefully before the first operation and keep it in a convenient place for future reference.

1.2 Scope of Application of the Manual

This manual only applies to HIMIWAY's electric assist bicycle models equipped with the HMW Assist System and sold in the United States. For the EU version, please download it separately.

The applicable electric assist bicycle models as of December 31, 2025 include: A7, D5 2.0, D5 2.0 ST, D5 2.0 CAMO, D5 2.0 20". With model iterations, the list of compatible models will continue to expand; please refer to the official announcement for the latest information.

1.3 Important Statements

1.3.1 Compliance Notice

The factory settings of this assist system comply with relevant US safety standards, and the system hardware and software meet UL2849 and UL2271 electrical safety standards. The system supports the setting of pedal assist speed and throttle assist speed. Before use, you must confirm and comply with local electric bicycle management regulations (including but not limited to speed limit requirements, riding area restrictions, etc.) to ensure that the system settings are consistent with local laws and regulations.

1.3.2 Disclaimer

HIMIWAY shall not be liable for any equipment damage, riding accidents, fines, or other losses caused by failure to operate in accordance with this manual (such as unauthorized modification of the electrical system, illegal adjustment of assist speed) or failure to comply with local regulations;

Natural wear and tear during normal use of the system (such as wire harness aging, sensor accuracy attenuation) shall be handled in accordance with the after-sales service policy and is not covered by the disclaimer;

HIMIWAY does not provide warranty services for equipment failures or safety issues caused by maintenance or disassembly of system components by personnel not authorized by HIMIWAY.

1.3.3 Intellectual Property and Trademark Statement

The technical parameters, operation interfaces, function descriptions and other content involved in this manual are protected by intellectual property rights. Unauthorized commercial reproduction or adaptation is prohibited.

1.4 Terms and Definitions

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Term	Definition
HMW Assist System	The eBike assist system developed by Himiway Intelligent Technology.
Auto Mode	The smart auto mode of the Himiway Assist System, which calculates the rider's pedaling torque and cadence in real time to automatically match assist output, eliminating the need for manual gear shifting.
Assist Level	The levels of the assist system. The Himiway Assist System defines 5 levels: ECO+, ECO, TOUR, SPORT, and TURBO.
Torque Sensor	A core sensing component of the assist system that collects torque and cadence signals when the rider pedals.
Thumb Throttle	An assist trigger component mounted on the handlebar, which outputs a Hall signal when pressed.
Torque Mode	An assist output algorithm that prioritizes torque signals.
Cadence Mode	An assist output algorithm that prioritizes cadence signals.
Cruise Control	A function that maintains travel at a specified speed.
Assist Ratio	The ratio of pedaling force to motor traction force at a specific assist level.
Assist Torque	The maximum torque output by the motor at a specific assist level.

2. System Overview

2.1 Core Features of the Assist System

Automatically and in real-time matches the appropriate assist output by calculating the rider's pedaling torque and cadence in real-time, eliminating the need for cumbersome gear shifting.

Smart Auto Mode

will be upgraded from time to time to make riding better. Including but not limited to the changes to the instrument interface, function menu, and power mode. Please check the actual vehicle for the latest features.

Real-Time Torque and Cadence Switching

The system supports flexible switching between torque and cadence modes during riding.

Multi-Parameter Adjustability

The system has powerful parameter adjustment capabilities, supporting adjustment of assist ratio, gear torque, power response, as well as pedal assist speed, throttle assist speed, and walk assist speed.

Global OTA Upgrade

The instrument is equipped with a built-in WIFI chip, enabling upgrades anywhere in the world as long as a hotspot network is available.

2.2 System Overview

The HMW assist system mainly consists of the instrument and its program, buttons and thumb throttle, mid-drive motor and its program (or rear-drive motor, motor controller and its program), power battery, torque sensor, wire harness, lamps, and other components. Configurations may vary slightly by model; please refer to the actual vehicle configuration for details.

Taking the D5 2.0 (rear-wheel drive) model as an example, the distribution of assist system components is shown in the figure:



1. Instrument

4. Motor Controller

2. Buttons and Thumb Throttle

5. Rear-Drive Motor

3. Power Battery

6. Torque Sensor

3. Quick Start Guide

First Power-On

Ensure the battery is charged and properly installed. Locate the power button "  " among the buttons, press and hold it for 1 second. The instrument will power on and light up, and instrument the main interface after self-check.

Setting the Assist Level

After power-on, the system defaults to "OFF" mode. Press the "  " button or "  " button to switch the system to any of the following levels: "ECO+, ECO, TOUR, SPORT, TURBO". Note that the higher the level, the stronger the power; please try lower levels first.

Riding

Ride your electric assist bicycle as you would a traditional non-assisted bicycle, and you will feel the assist. You can also try gently pressing the " **throttle** " to experience throttle-assisted riding.

Parking and Power-Off

When you need to park, first squeeze the brakes (the brake signal will stop the motor from outputting assist). After coming to a complete stop, press and hold the power button "  " for 1 second. The instrument will turn off, and the system will shut down.

4. Detailed Operation Instructions

4.1 Instrument Main Interface

4.1.1 Main Interface Introduction



1		Battery Level Indicator
2		Current Speed Display
3		Speed Bar
4		Speed Unit
5		Walk Mode Indicator
6		Riding Data
7		Assist Level Indicator
8		Power Bar
9		Headlight Status Indicator
10		Error Code
11		Turn Signal Indicator
12		Torque/Cadence Mode Indicator
13		Cruise Control Indicator (Run, Not running, Disable)

4.1.2 Explanation of Riding Data Area

Short-press the " **M** " button to cycle through the following riding data:

TRIP	999 mile
ODO	999999 mile

Total Mileage & Trip Mileage

AVG	26.3 mile/h
MAX	36.8 mile/h

Average Speed & Maximum Speed for Current Ride

WATT	1000 w
TIME	88:88

Real-Time Power Output & Riding Time

CAL	999 kcal
CO₂	0.0 kg

Calories Burned & Carbon Reduction for Current Ride

Torque rider	23 N·m
Cadence	999 rpm

Real-Time Pedal Torque & Cadence

4.2 Use of Buttons and Throttle

4.2.1 Buttons and Throttle

Four-Button Configuration (Including Throttle), Used on the A7 model.



Six-Button Configuration (Including Throttle).

Used on the D5 2.0 series models (D5 2.0, D5 2.0 ST, D5 2.0 CAMO, D5 2.0 20").



4.2.2 Button Operation Overview

Power Button / Return Button

Power On/Off: Press and hold the " " for 1 second to power on; when speed is 0, press and hold for 1 second to power off.

Smart Auto Mode: Short-press the " " to enter or exit Auto Level.

Return: Used as the return/cancel button in the settings interface.

Upshift button / Headlight Switch

Upshifting: Press the " " button briefly to shift up one level at a time.

Headlight On/Off: Press and hold the " " Button to turn on the headlight; press and hold again to turn it off.

Exit Auto Mode: In Auto Mode, short-press the " "Button to exit Auto Mode and Upshift Level.

Adjust Cruise Speed: During cruising, press briefly to increase the cruise speed.1 MPH per press.

Downshift button / Walk Assist Level

Downshifting: Press the " " button briefly to shift down one level at a time.

Exit Auto Mode: In Auto Mode, short-press the " " Button to exit Auto Mode and Downshift Level.

Walk Assist Level: Press and hold to enter; release to exit.

Adjust Cruise Speed: During cruising, press briefly to decrease the cruise speed.1 MPH less per press.

Function Button / Confirm Button

Switch Riding Data: Press the " " briefly to cycle through 5 data items in sequence in the instrument's riding data area.

Entry to Settings: When speed is 0, press and hold the " " to enter the settings interface.

Switch Torque/Cadence: When speed is not 0, press and hold the " " to switch between Torque and Cadence modes.

Confirm: Used as the confirm button in the settings interface.

Left Turn Button / Cruise Control Button

Left Turn Signal: Short-press the " " to turn on the left turn signal; short-press again to turn it off.

Cruise Control: When speed exceeds 5 MPH, press and hold to activate cruise control; the instrument icon " " will light up.

Right Turn Button

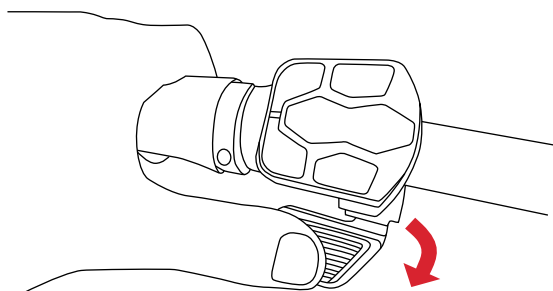
Right Turn Signal: Short-press the " " to turn on the right turn signal; short-press again to turn it off.

Hazard Warning Button

Hazard Warning Lights: Press and hold both the Left and Right Turn Buttons simultaneously to turn on the hazard warning lights; short-press either turn button to turn them off.

4.2.3 Use of Throttle

After power-on, when the assist level is not "OFF", gently press the throttle grip to activate throttle assist.



Tips: You can also configure the "Throttle" function; see Section 5.4.4 for details.

4.3 Use of Regular Assist Levels

After power-on, use the "+" and "-" buttons to switch between regular assist levels. Select the appropriate level according to the table below.

OFF	No assist mode – manual pedaling only, ideal for short flat rides or low-resistance terrain.
ECO+	Ultra energy-saving mode – minimal assist output, maximum range, perfect for daily commutes, flat roads, or low-intensity riding exercise.
ECO	Standard energy-saving mode – balanced range and assist, suitable for urban paved roads and medium-short leisure rides.
TOUR	Touring comfort mode – steady assist and moderate power consumption, ideal for long rides on mixed terrain (flats + gentle slopes).
SPORT	Sport assist mode – responsive and strong output, smooth performance on gravel roads or light off-road terrain.
TURBO	Turbo max assist mode – maximum power output, powerful performance for steep hills, mountain roads, or high-resistance terrain.

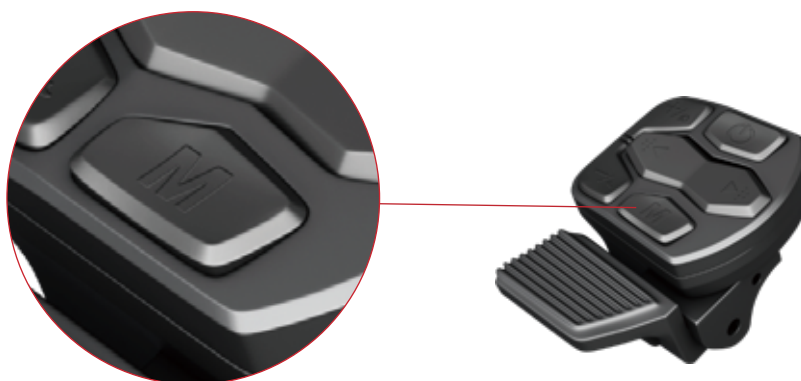
4.4 Use of Smart Auto Mode

After power-on, short-press "⏻" to enter Auto Mode, and the interface will display "AUTO"; short-press again to exit Auto Mode.

AUTO	Smart auto mode: real-time assist adjustment based on torque/cadence, handles all riding conditions effortlessly.
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4.5 Switching Torque and Cadence Mode

After power-on, when the bicycle is in motion, press and hold the "**M**" button to switch between Torque and Cadence modes.



Features of the Two Modes

 Torque Mode	Smooth power output that adjusts with your pedaling force, no empty pedaling feel. Ideal for exercise, climbing hills, or riding with heavy loads.
 Cadence Mode	Powerful acceleration from a start, with power output determined solely by pedaling cadence and closely tied to the assist level. Suitable for casual rides on flat roads or high-speed cruising.

Tips: The upgraded system supports real-time switching between torque and cadence assist modes for users. If your vehicle does not have this function, please upgrade your system as described in Section 5.7.3.

4.6 Use of Walk Assist Mode

After power-on, press and hold the "" button, and the bicycle will move forward at a low speed of 4 km/h (default), facilitating walking with the bike.

4.7 Use of Turn Signals and Hazard Warning Lights

Turning On/Off Turn Signals

After power-on, short-press "" or "" to turn on the left or right turn signal, which will flash at 75 Hz. Short-press again to turn off the turn signal.

Turning On/Off Hazard Warning Lights

After power-on, press and hold both the "" and "" button simultaneously to turn on the hazard warning lights, which will flash at a frequency of 75Hz. Press either button briefly to turn them off.

4.8 Use of Cruise Control Function

Enable Cruise Control

This function is disabled by default at the factory. Please go to "**Cruise Control Setting**", select "**Enable**", and confirm.

Activate Cruise Control

Method 1: When in any mode except OFF and the speed exceeds 5 MPH, press and hold the left turn signal button for 1 second.

Method 2: When in any mode except OFF, use the throttle to maintain a constant speed (exceeding 5 MPH) for more than 3 seconds.

Deactivate Cruise Control

Method 1: Press and hold the left turn signal button for 1 second while cruise control is active.

Method 2: Press the throttle.

Method 3: Adjust AUTO mode.

Method 4: Switch between Torque Mode and Cadence Mode.

Method 5: Pedal the bike.

Adjusting Speed During Cruise Control

Press the ""/"Button or ""/"Button to increase or decrease the cruise speed, with each press changing the speed by 1 MPH.

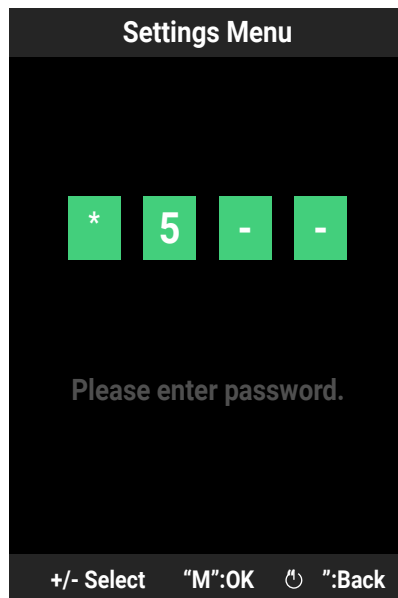
5. System Settings

5.1 Enter the Settings

After power-on, press and hold the "M" button to enter the password interface. Enter "0510" to access the settings menu (no need to re-enter the password for subsequent access).

Password Entry Method

Short-press the " +/∞ / -/∞ " buttons to select numbers. Short-press "M" to confirm the first password digit and move to the next. After entering the fourth digit, short-press "M" to submit the password.



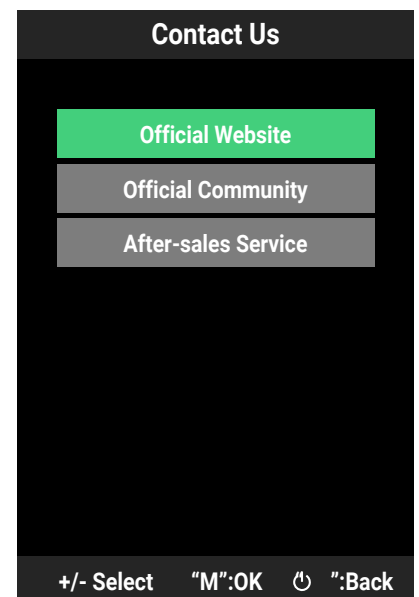
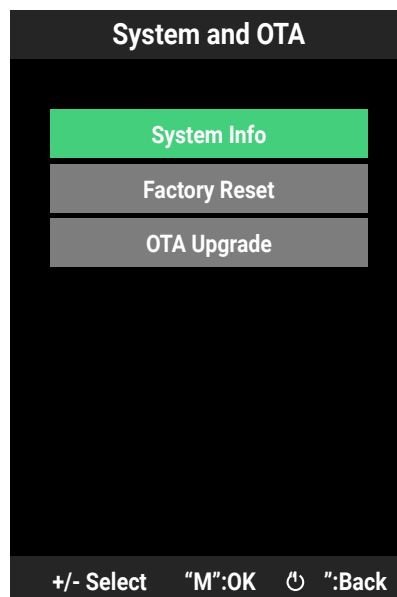
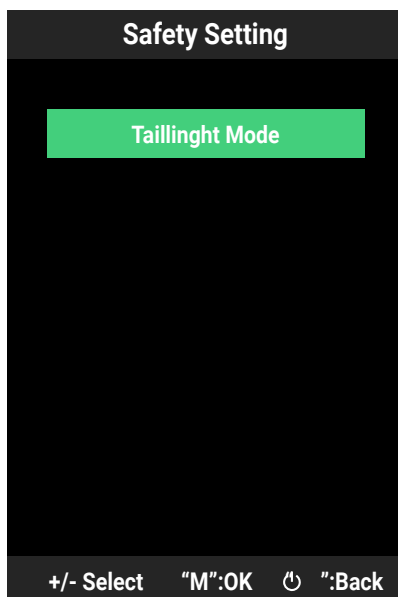
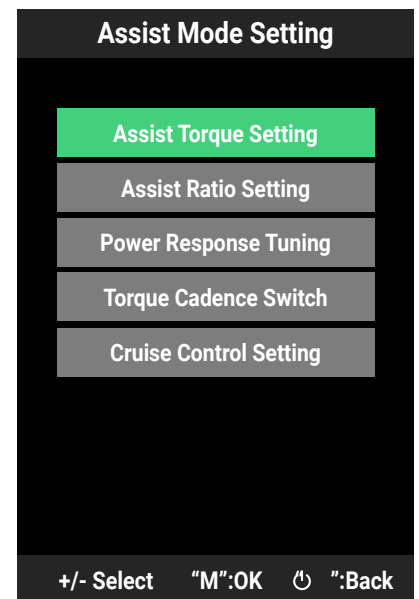
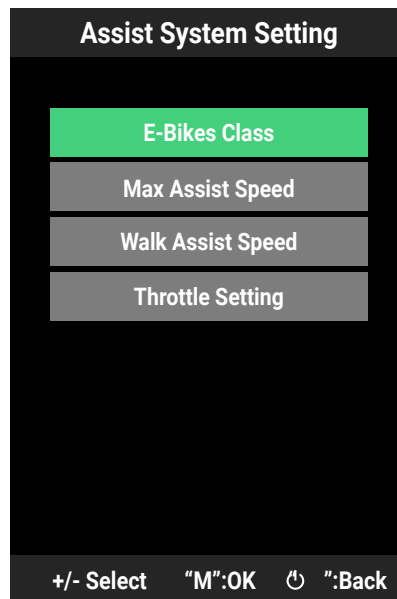
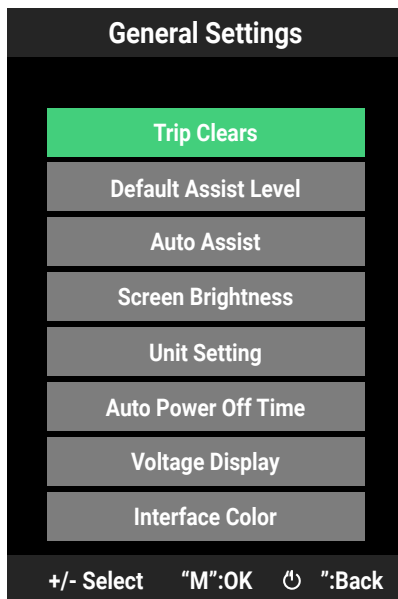
"*" indicates the entered password digit;

"5" flashes to indicate the current digit being entered;

"-" indicates the unentered password digit.

5.2 Settings Menu Preview

Settings Menu

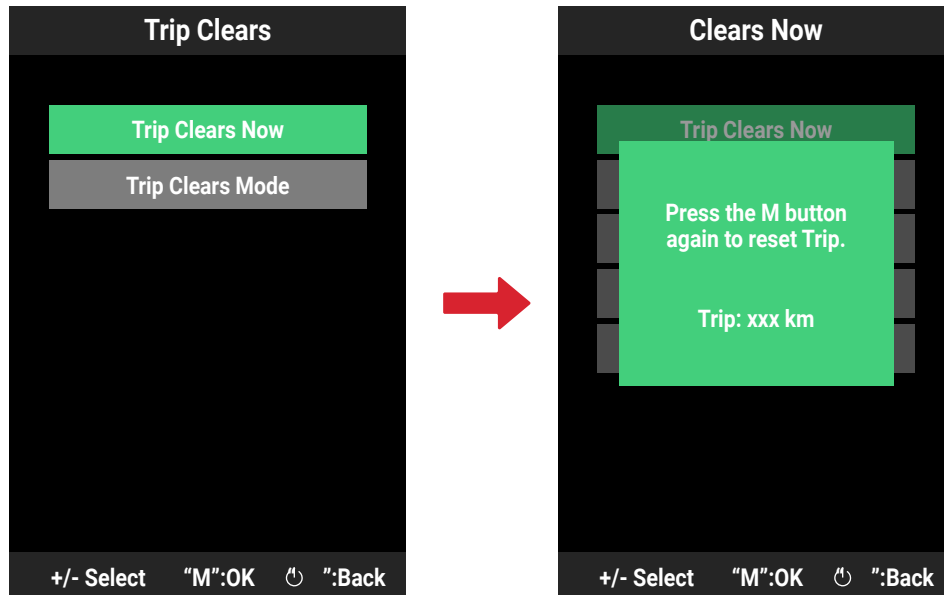


5.3 General Settings

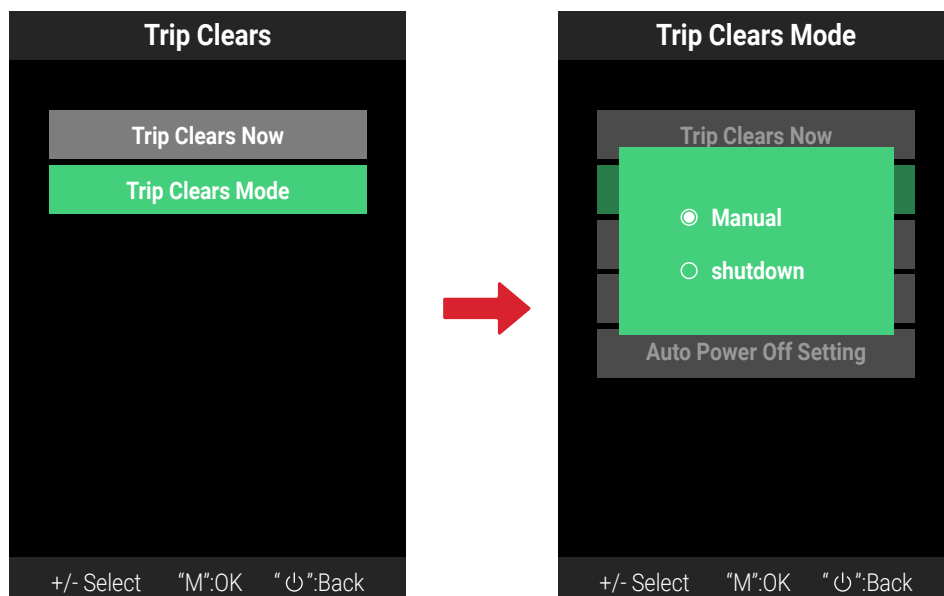
5.3.1 Trip Clears

"Trip Clears Now" allows you to reset the trip mileage immediately.

Note: After confirming by pressing the "M" button, the trip mileage cannot be recovered.

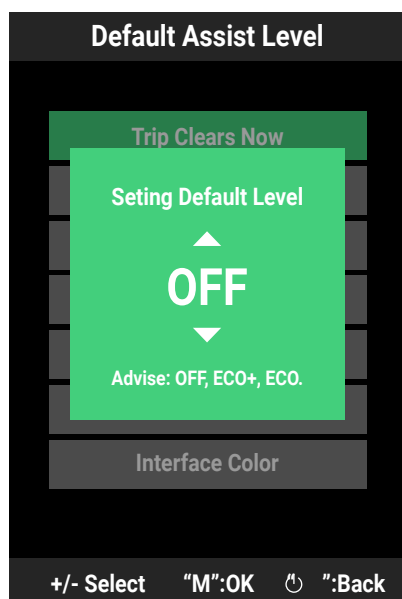


"Trip Clears Mode" defaults to "Manual" reset. You can set it to "Shutdown" for automatic reset when the system powers off.



5.3.2 Default Assist Level Setting

The factory default power-on level is **"OFF"**, which can be modified. It is recommended to set it to **OFF**, **ECO+**, or **ECO** for safety and energy efficiency.

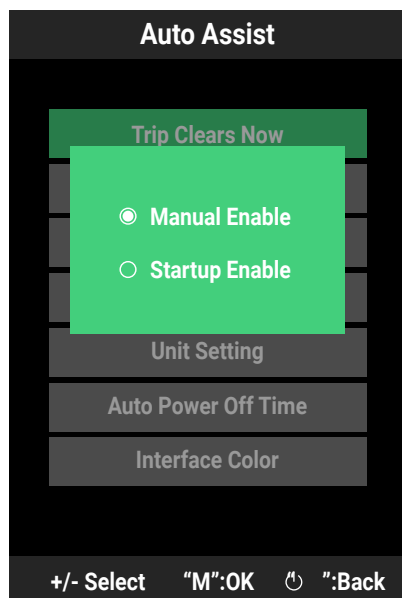


5.3.3 Auto Assist Setting

Auto Mode is one of the featured functions of the HMW Assist System.

"Manual Enable" is the default setting; you need to press the **"Power Button"** to enter Auto Mode.

"Startup Enable" allows you to enable Auto Mode immediately after power-on for added convenience.



5.3.4 Screen Brightness Setting

Supports 5 brightness levels; factory default is Level 5.

5.3.5 Unit Setting

Supports switching between metric and imperial units. US models default to imperial units; EU models default to metric units.

5.3.6 Auto Power Off Time

Supports 5 time levels: 1, 3, 6, 9, 12 minutes; factory default is 3 minutes. Select "Never" to disable auto power-off.

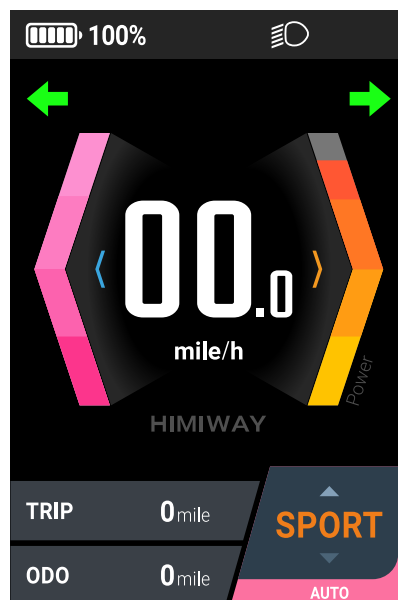
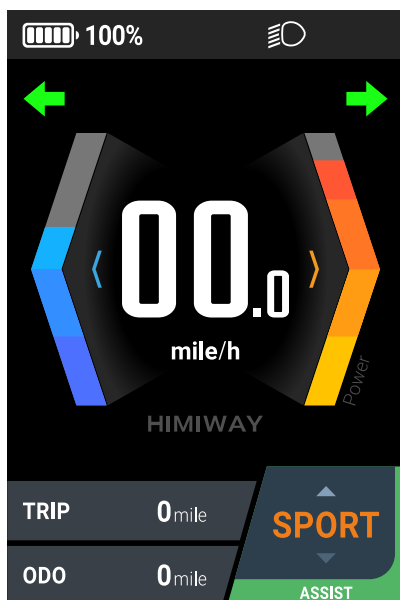
5.3.7 Voltage Display

Supports displaying real-time voltage (enabled by default); you can also disable it.



5.3.8 Interface color

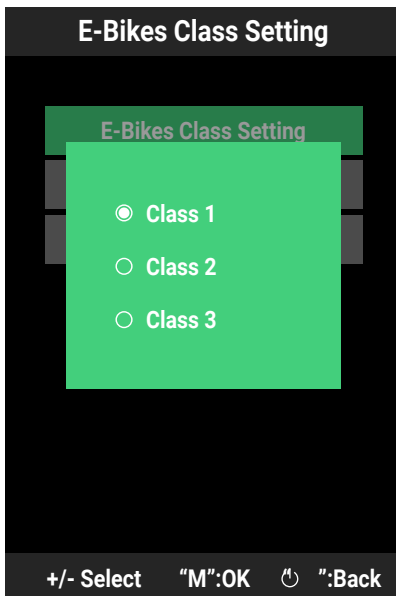
Supports 2 interface colors: Color 1, Color 2; factory default is Color 1.



5.4 Assist Speed Setting

5.4.1 E-Bikes Class Setting

US models support quick configuration of the vehicle's Class level.

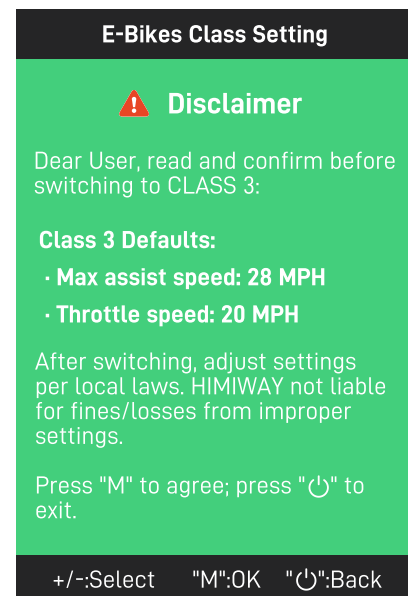


Class	Default Settings
Class 1	Pedal Assist: 20 MPH, Throttle Assist: Disabled
Class 2	Pedal Assist: 20 MPH, Throttle Assist: 20 MPH
Class 3	Pedal Assist: 28 MPH, Throttle Assist: 20 MPH

Warning

Most US states and counties require disabling throttle assist when set to Class 3. Please configure your electric assist bicycle in strict compliance with local traffic regulations. HIMIWAY is not liable for any fines or other losses caused by improper settings.

Please agree to the following disclaimer when switching to "Class 3"



Tips: For throttle speed settings, see Section 5.4.4.

5.4.2 Max Assist Speed

Allows you to modify the maximum assist speed of your electric assist bicycle within legal limits.

- **Class 1-2** adjustable range: **4-20 MPH**.
- **Class 3** adjustable range: **4-28 MPH**.

5.4.3 Walk Assist Speed

Adjustable range: 3-6 km/h; factory default is 4 km/h.

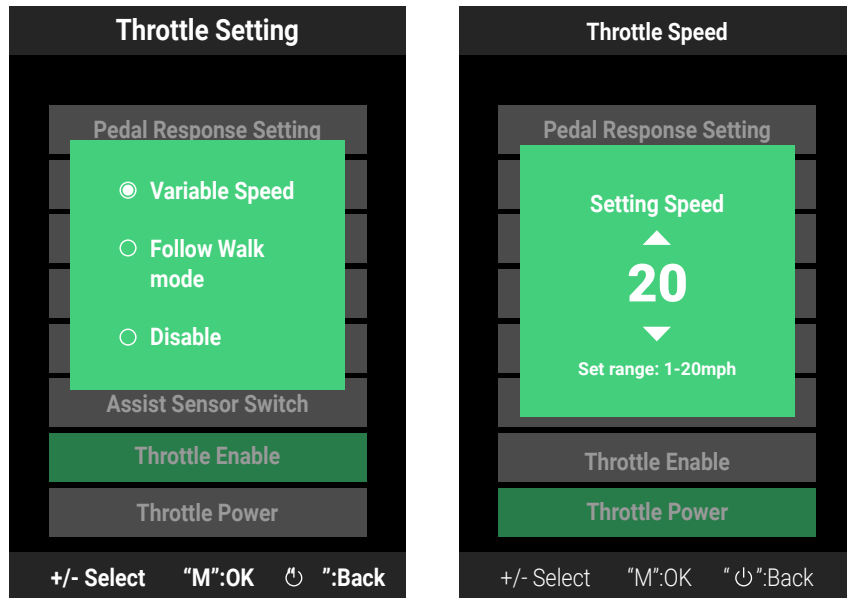
5.4.4 Throttle Setting

Supports the following settings:

Variable Speed: The default adjustable speed from the factory, which corresponds to the maximum speed of the bike. This setting allows a range of 4-20 mph.

Follow Walk Mode: Adjusts the speed to match the walk mode, making it easier to push the bike by hand.

Disable: Disables the throttle function.

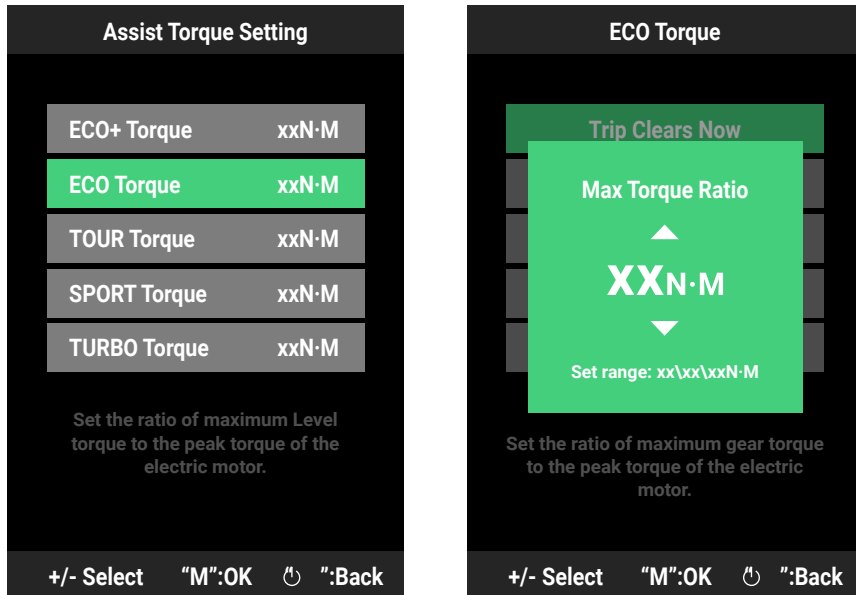


Variable Speed Setting Method: Select "Variable Speed", then press "M" to enter the speed adjustment interface. Use the " + / - " buttons to adjust the value.

5.5 Assist Mode Setting

5.5.1 Assist Torque Setting

Allows you to fine-tune the maximum torque for each assist level. Torque ranges may vary by model due to different motor powers; please refer to the actual vehicle for details.



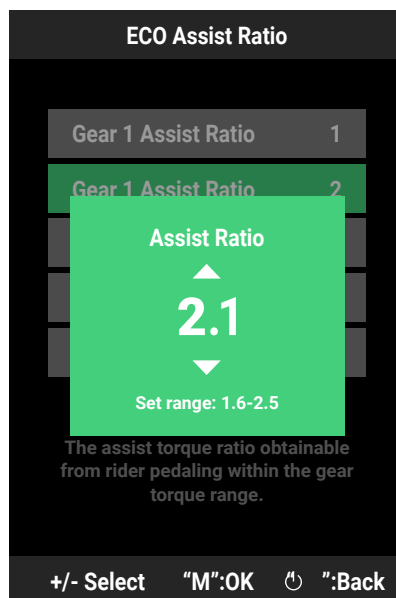
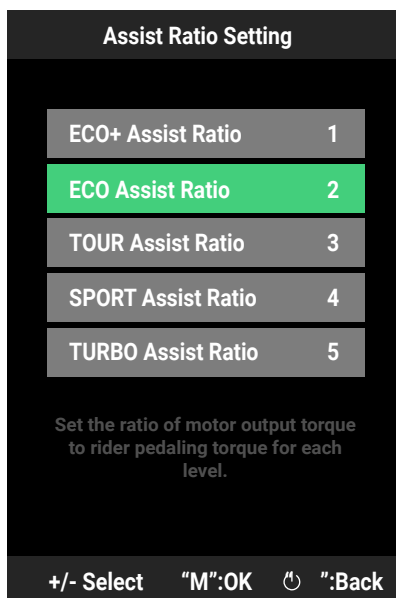
Taking the D5 2.0 model as an example, the adjustable ranges are as follows:

Assist Level	Default torque	Adjustable range
ECO+	18Nm	18Nm、23Nm、27Nm
ECO	36Nm	32Nm、36Nm、41Nm、45Nm
TOUR	54Nm	50Nm、54Nm、59Nm、63Nm
SPORT	72Nm	68Nm、72Nm、77Nm
TURBO	90Nm	81Nm、86Nm、90Nm

5.5.2 Assist Ratio Setting

Allows setting the ratio of motor output torque to rider's pedaling torque. A higher ratio provides more assistance (easier riding), while a lower ratio saves more power.

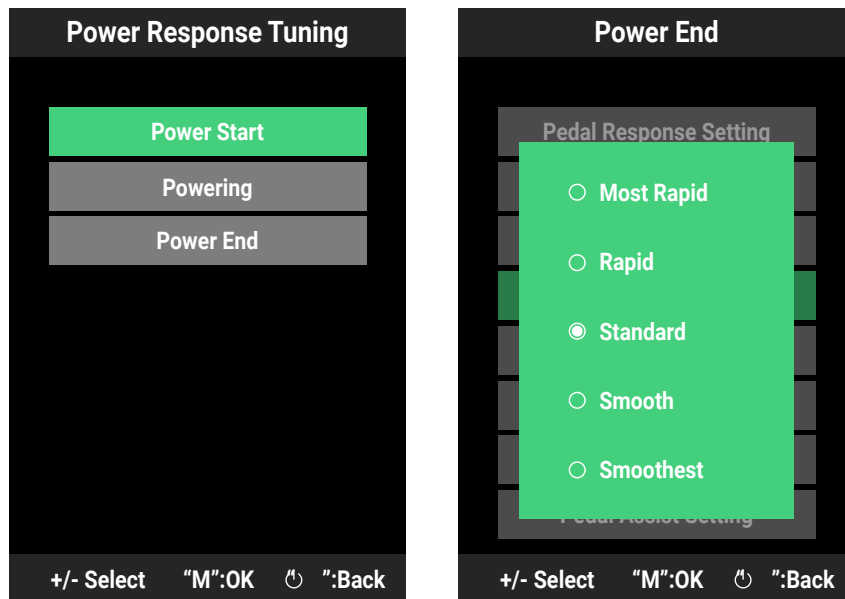
Assist Level	Default torque	Adjustable range
ECO+	100%	80-150%
ECO	200%	160-250%
TOUR	300%	260-350%
SPORT	400%	360-450%
TURBO	500%	460-550%



Tips: Starting from 2026, the maximum assist ratio has been upgraded to 1:5.5. If your system shows a maximum assist ratio of 1:3.5, please upgrade your assist system as **described in Section 5.7.3**.

5.5.3 Power Response Tuning

Supports adjusting the speed of the system's power response from 3 dimensions.



"**Power Start**" sets the power response speed when starting; "**Powering**" sets the response speed during continuous pedaling; "**Power End**" sets the response speed when stopping pedaling.

Each has 5 settings: **Most Rapid**, **Rapid**, **Standard**, **Smooth**, **Smoothest**.

All 3 items are set to "**Standard**" mode by factory default.

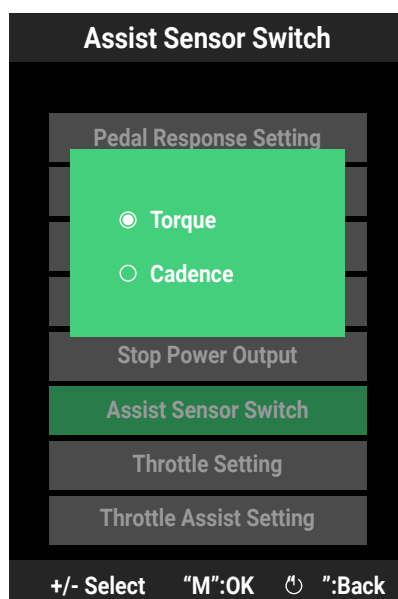
5.5.4 Torque Cadence Switch

Supports switching between Torque Mode and Cadence Mode.

The settings for Torque Mode and Cadence Mode here are permanent. Temporary activation is achieved by switching in real time via the "M" button, and the settings will revert to the ones here upon restarting the device.

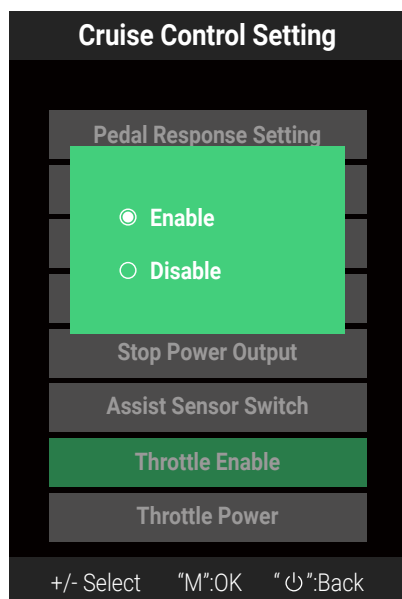
Torque Mode: Factory default. Power is only output when pedaling with force; no power is output when pedaling empty. The pedal feels responsive during riding.

Cadence Mode: Powerful start; pedaling feels light during high-speed riding.



5.5.6 Cruise Control Setting

The Cruise Control function is disabled by default at the factory, but you can enable it. After selecting "Enable", there are two ways to activate Cruise Control—please refer to Section 4.9 for details.

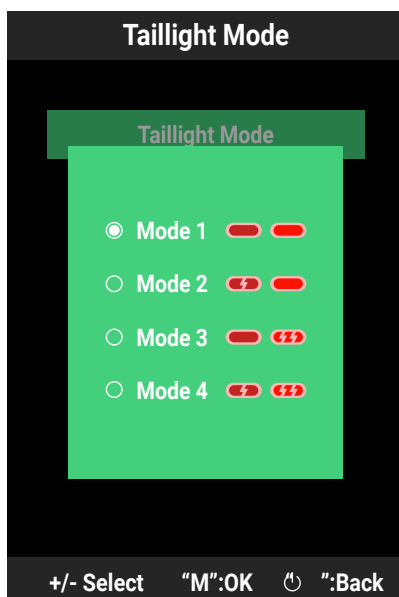
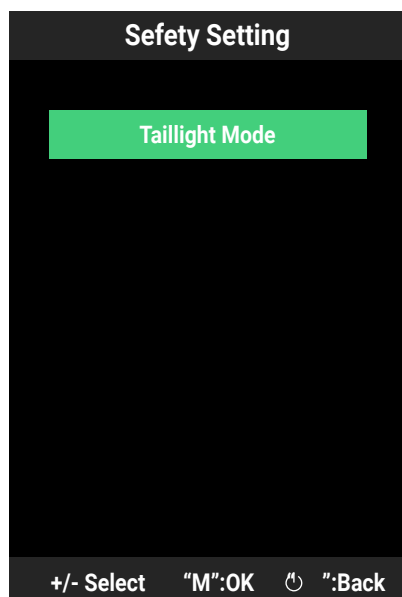


5.6 Safety Setting

5.6.1 Taillight Mode

Supports four safety mode settings.

Mode 1 (Default)	No flashing. The taillight is dim when the front light is on and does not flash. It becomes bright without flashing when braking.	
Mode 2	Flashing with front light on. The taillight is dim and flashes slowly when the front light is on, and bright without flashing when braking.	
Mode 3	Flashing when braking. The taillight is dim and does not flash when the front light is on, but flashes quickly when braking.	
Mode 4	All flashing. The taillight is dim and flashes slowly when the front light is on, and flashes quickly when braking.	



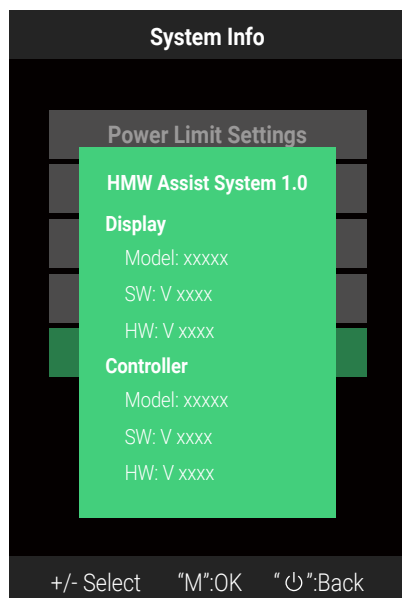
5.7 System and OTA

5.7.1 Factory Reset

To restore your device to its factory settings or if you experience operational anomalies, please attempt a 'Factory Reset'. Please note that this will erase all data except for the 'ODO' information.

5.7.2 System Info

On this page, you can view the version information of the instrument and controller in the HMW assist system.



5.7.3 OTA Upgrade

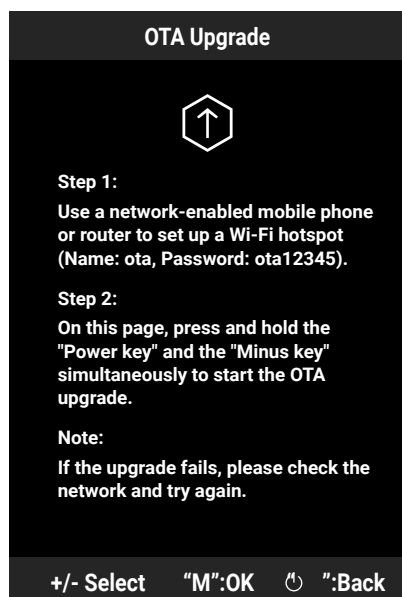
Vehicles equipped with the DR300 instrument support OTA upgrades. Global online upgrades are achievable as long as you can provide a Wi-Fi hotspot with internet access. The upgrade methods are as follows:

Upgrade Method 1

Step 1: Use a mobile phone or router that can connect to the Internet to set up a Wi-Fi hotspot (Name: ota, Password: ota12345), and keep it close to your EBIKE.

Step 2: Long - press the "M" button to enter the "Settings Menu". Then, find "OTA Upgrade" in "System and OTA" and enter this page.

Step 3: On this page, press and hold the "⏻" and the "+/-" simultaneously to start the OTA upgrade.

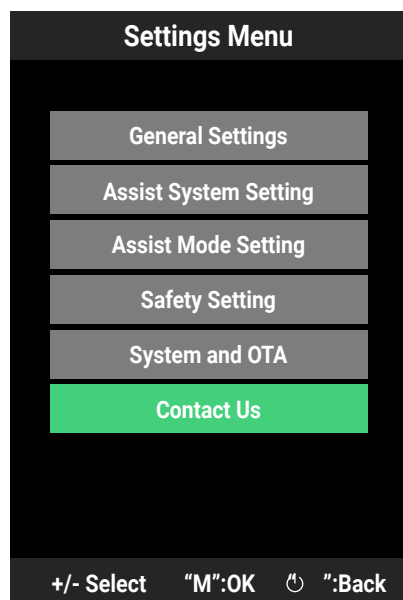


Upgrade Method 2

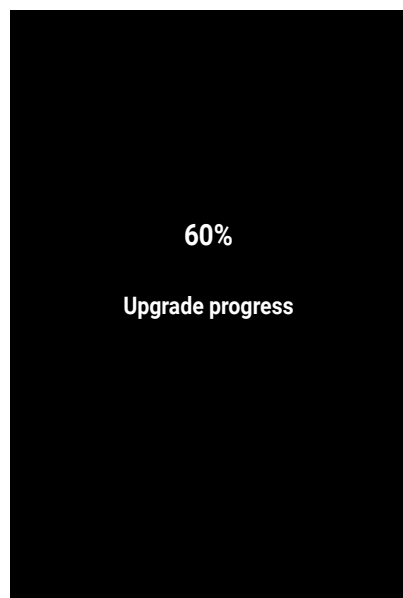
Step 1: Use a mobile phone or router that can connect to the Internet to set up a Wi-Fi hotspot (Name: ota, Password: ota12345), and keep it close to your EBIKE.

Step 2: Long-press the "**M**" button to enter the "**Settings Menu**", and select the last item in the menu.

Step 3: Then, long press the "⏻" and the "+/%" simultaneously, and the OTA upgrade mode will start.



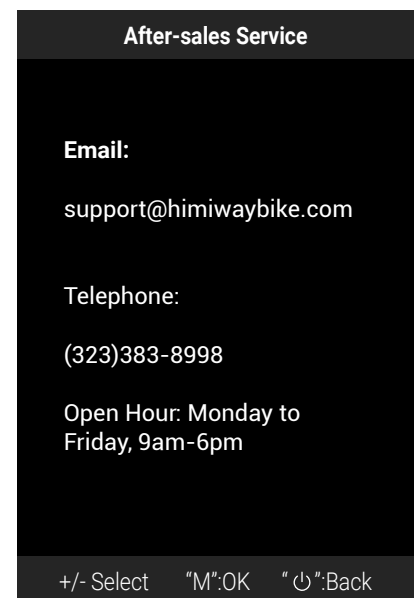
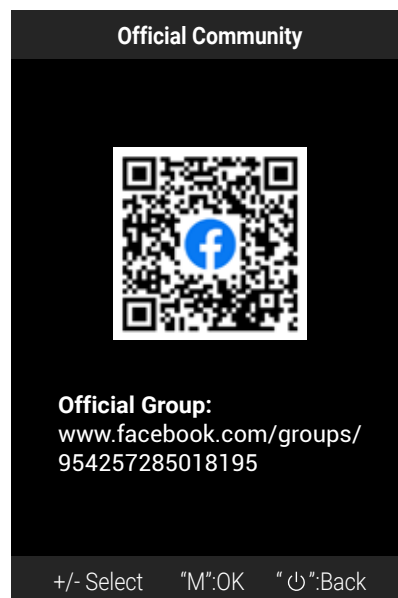
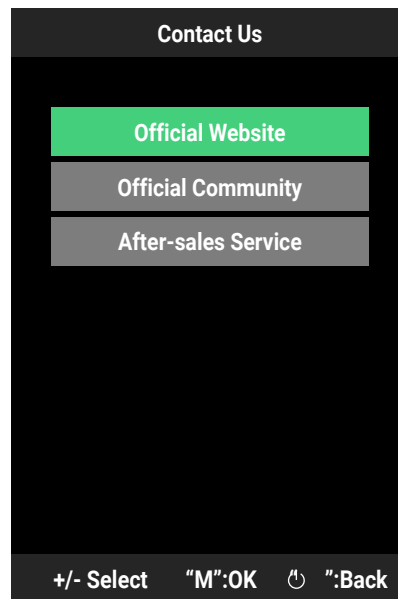
Entering this page indicates that the upgrade is in progress.



Tips: If the upgrade fails, please check the network and try again.

5.8 Contact Us

Here you can find our official website, the official Facebook group, and the contact information for after-sales service.



6. Usage Precautions

6.1 Power On and Off

Power On: Press and hold the '⏻' to activate the assist system. After activation, be careful when using the 'Throttle' to avoid sudden acceleration.

Power Off: After stopping, press and hold the '⏻' to turn off the assist system. Alternatively, the system will automatically turn off after the preset time.

6.2 Using Auto Assist

The Himiway assistance system provides two ways to use Auto Assist:

- ① Automatically enter it when turning on the device.
- ② Manually press the "Power Button" to enter it. Please make settings according to "5.3.3 Auto Assist".

In the Auto Assist state, pressing the "⏻" or the "+/- / -/ " will exit the Auto Assist mode. After exiting, please shift gears manually.

6.3 Using the Vehicle Speed Limiter

If you think the system's assist speed is too high, please use the "5.4.2 Max Assist Speed" function. Reducing the speed will help you control the vehicle and improve safety.

6.4 Power Response Tuning

"5.5.3 Power Response Tuning" can help you adjust the power response during the pedaling process. When you decrease or increase an adjustment value, it may be normal that you don't noticeably feel the change in power. You can try increasing or decreasing two adjustment values.

6.5 Switch Between Cadence and Torque

The cadence sensor only has the "cadence" signal, while the torque sensor has two signals, namely "torque" and "cadence". The "5.5.4 Torque Cadence Switch" actually switches between the two corresponding power control algorithms of the controller.

In the cadence mode, only the "cadence" signal is used, and the initial power is relatively strong. Please pay attention to safety.

In the torque mode, both the "cadence" signal and the "torque" signal are used. It is a normal phenomenon that no power is output when pedaling in the air.

6.6 Charging

Safety Tips:

Be sure to use the official charger to charge the battery.

The battery can be removed for charging or left on the vehicle body (for vehicles with built-in batteries, the battery cannot be removed).

When charging, place the charger on a flat surface and do not cover the charger to ensure that it can dissipate heat sufficiently.

Charging Steps:

Start Charging: First, connect the charger to the battery, and then connect the charger to a household electrical outlet.

Stop Charging: First, disconnect the charger from the household electrical outlet, and then disconnect the charger from the battery.

7. Troubleshooting

Some system faults can be identified by fault codes generated by the system diagnostic program. Refer to the table below for fault code explanations. The fault code display location is shown in **4.1.1**.

Fault Name	Fault Code	Solution
Controller Communication Error	101	Check if the display wiring connector is loose or if the pins are misaligned.
Keypad Communication Error	102	Check the wiring from the keypad to the display or if the keypad is damaged.
Current Abnormality	201	Controller, motor, or wiring fault. Please repair or replace.
Motor Phase Loss	202	Controller, motor, or wiring fault. Please repair or replace.
Motor Hall Signal 'U' Abnormality	301	Check the wiring from the controller to the motor or if the motor is damaged.
Motor Hall Signal 'V' Abnormality	302	
Motor Hall Signal 'W' Abnormality	303	
Controller Overheat Warning	203	Please turn off immediately. After a few hours, turn on and check if it returns to normal.
Motor Temperature Abnormality	304	Please immediately stop assistance. After cooling down, check if it returns to normal.
Brake Signal Error	601	Check the brake signal wiring.
Throttle Signal Error	602	Check the throttle signal wiring.
Cadence Sensor Signal Error	603	Check the cadence sensor signal wiring.
Torque Sensor Signal Error	604	Check the torque sensor signal wiring.
Rear Wheel Speed Sensor Signal Error	605	Check the rear wheel speed sensor signal wiring.

This manual may be updated without prior notice.
You can scan the **QR code** below to query and **download** the latest version.



If you have any questions or suggestions regarding this instruction manual,
please contact us via the following email address:

support@himiwaybike.com

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