

HORWIN 号外

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www.horwin.com



HORWIN 号外

SENMENTI ONE USER MANUAL

Before you or other drivers drive the SENMENTI ONE, please read this user manual carefully to ensure safe operation and use.



www.horwin.com

Vehicle Data

Motorcycle Type

Vehicle Identification Number

Color Code

First Registration

License Plate Number

Agent Data

After-sales Service Contact

Ladies / Gentlemen

Phone Number

Agent Address / Phone (Official Seal)

Dear User:

We sincerely thank you for purchasing the SENMENTI ONE electric motorcycle designed and manufactured by HORWIN, and we hope it delivers a safe and enjoyable riding experience!

Before riding or riding the SENMENTI ONE, you or any other driver should carefully read this user manual to ensure safe operation and use.

SENMENTI ONE

We cherish tech, yet strive to help all people break life's limits, explore freely and safely, and build new lifestyles via technology.

We firmly believe we will step into an electrified mobile civilization together.

With 10 years of core R&D and overseas testing, HORWIN launches a full lineup of hit models, with branches & labs across Europe, Asia and America, selling in over 50 countries on four continents.

HORWIN holds 200+ patents with full self-owned IP and in-house R&D. Its designs won global top industrial Red Dot Awards in 2021 & 2024.

In 2022, under the concept "higher efficiency, lower energy use", we rolled out self-developed IM integrated chassis combining battery, controller, motor and frame, outperforming regular e-bikes with less power drain. We also built the original 5G modular BB Factory, enabling unmanned smart production to boost output, quality and durability.

Every effort of HORWIN is for you who love life and this world as we do.

If you have any questions regarding this user manual or require emergency assistance.

Please call the HORWIN CARE global after-sales hotline at: 400-778-6688.

Technical personnel and authorized outlets ready to provide you with high-quality service and support.

Thank you again for your attention and trust in our company!

Horwin Inc (hereinafter "HORWIN" or "The Company") upholds the vision "Redefine Mobility Experience, Connect Self, City and Nature". We keep enhancing product quality and performance. Therefore, your vehicle's actual equipment, configurations and functions may slightly differ from descriptions and figures in this User Manual. Functions are subject to upgrades via vehicle software updates. Please take the vehicle's actual conditions as standard. For the avoidance of doubt, HORWIN reserves the right to determine the availability and release timing of vehicle equipment, configurations, functions and associated software upgrades for safety, regulatory compliance and other reasons. Thank you for your understanding.

Strictly observe all warning information specified in this manual, which will help you operate the vehicle more safely. Meanwhile, please pay attention to any additional warning notices issued by HORWIN at any time. Be sure to thoroughly read this User Manual and get familiar with all functions before operating the SENMENTI ONE. Improper operation of the SENMENTI ONE may cause personal injury to yourself or third parties, vehicle damage or property loss. HORWIN shall not be liable for any consequences arising therefrom.



Tips

This User Manual covers the operation and maintenance of this motorcycle. Please follow all specified procedures. Figures in this document serve purely for illustration. Due to variations in vehicle equipment, accessories and regional specifications, there may be minor differences compared with images and text, which cannot be used as grounds for customer claims. Committed to ongoing product improvement, HORWIN reserves the right to implement changes anytime. For feedback on mistakes or omissions in this document, please email: service@horwin.com

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Product Introduction

SENMENTI ONE is HORWIN's heartfelt creation that breaks the "impossible triangle," built on the IM Integrated Chassis to address industry challenges of "high performance, long range, and rapid charging," effectively solving user's pain points and needs. It delivers a 100% authentic super electric motorcycle experience for riders.

Product Category

This product is a standard L3e high-speed two-wheeled electric motorcycle that fully complies with national regulatory requirements.

Riding Conditions

Safety Instructions

- HORWIN electric motorcycles are stylish, handy transport. Practice to ride well.
- A valid motorcycle riding license issued by local authorities is required.
- You must follow local traffic laws; where no motorcycle rules exist, abide by this manual's safety rules.
- Unauthorized modification or part replacement is forbidden—contact after-sales for help.
- No unauthorized modification or part replacement.
- Use only official HORWIN accessories; contact after-sales for help.
- Do not charge or park the vehicle indoors. Keep it clear of flammables and avoid over charging.
- Stop riding at once and call after-sales for repair if abnormal noise or fault alerts occur.



Tips

Third-party parts pose safety risks. HORWIN cannot verify their compatibility with SENMENTI ONE. Only official certified parts are advised; HORWIN bears no responsibility for unauthorized accessories.

Driver Requirements

- The following individuals should not operate the HORWIN electric motorcycle:
- a. Juveniles
 - b. Individuals under the influence of alcohol or drugs
 - c. Individuals who are unable to engage in strenuous physical activities due to illness
 - d. pregnant women
 - e. Patients identified by medical examination as having psychiatric abnormalities

Riding Environment Requirements

- Do not drive under adverse weather conditions or when extremely fatigued.
- Proceed slowly cautiously on complex roads. High speed on uneven, slippery, steep or curved surfaces risks losing vehicle control.
- Rain and snow reduce tire grip and lengthen braking distance for HORWIN e-motor-cycles, raising control risks. Drive with extra caution in such weather.

Preparations Before Riding

- Pre-ride check: sound brakes & tires, secure fasteners, undamaged parts.
- Ensure that all riders wear motorcycle helmets and other protective equipment.
- Before use or lending the motorcycle, ensure riders finish manual reading, tutorial video viewing and beginner training. Scan the Quick Guide QR code for training materials. You are liable for new riders’ safety; guide them until they master basic operations.
- When the battery level drops below 20%, charge it promptly.
- Regularly check lights, tire pressure, tread, brake lines and rearview mirrors for normal operation.

Checklist of items to be inspected before riding

Component	Item	Component	Item
Lamplight			
Rearview Mirror			
Combination Switch			
Brake Lever / Brake Cable			
Brake Disk			
Tire Pressure			
Tire			
...			

Check Items Before Starting Each Ride

Check the battery charging indicator light	Check tire tread depth and wear on tread & sidewall
Check brake system performance	Check tire pressure
Check lights and signal devices	Check secure fastening of luggage
Complete These Inspections Every 1000 km	
Check thickness of front & rear brake pads	Check brake fluid level
See maintenance section for inspection procedures	

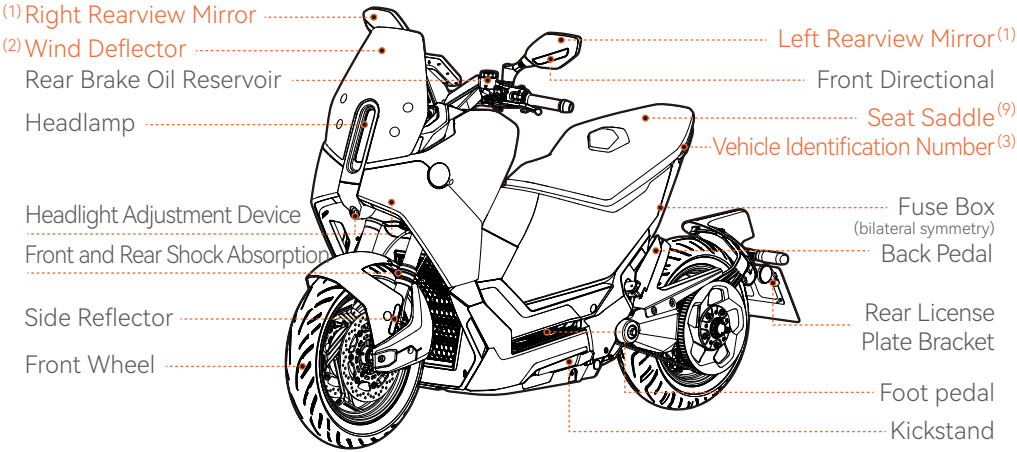
Riding Instructions

- Smooth start on flat surface, no abrupt acceleration or braking.
- Stay alert, keep safe distance from other vehicles and slow down in unfamiliar areas.
- Don't use phones, cameras, headphones or earplugs while riding to avoid distraction.
- Slow down; yield to pedestrians & non-motor vehicles at intersections, bike lanes and turns.
- Stop instantly to troubleshoot if the vehicle malfunctions; contact after-sales for support.
- Park on level ground and cut power to avoid rolling or tipping injuries.

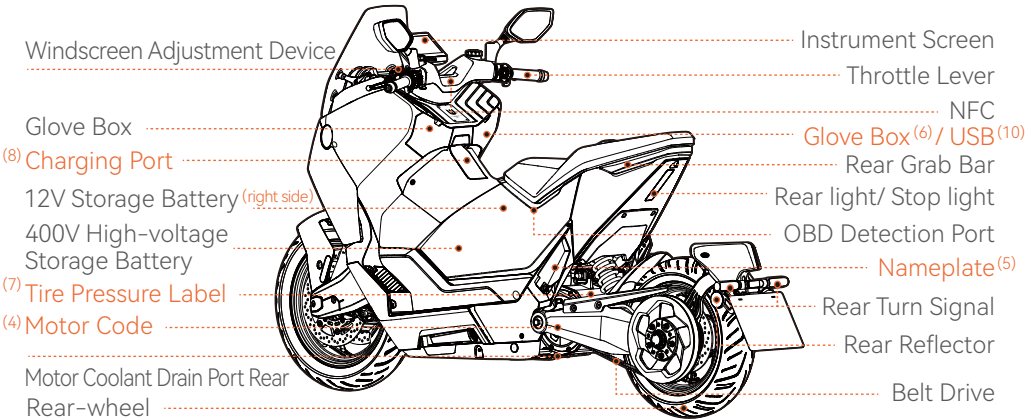
Full Vehicle View

Thank you for purchasing the SENTMENTI ONE electric two-wheeled motorcycle.
Schematic diagram of the vehicle body and its components:

45° front view of the whole vehicle

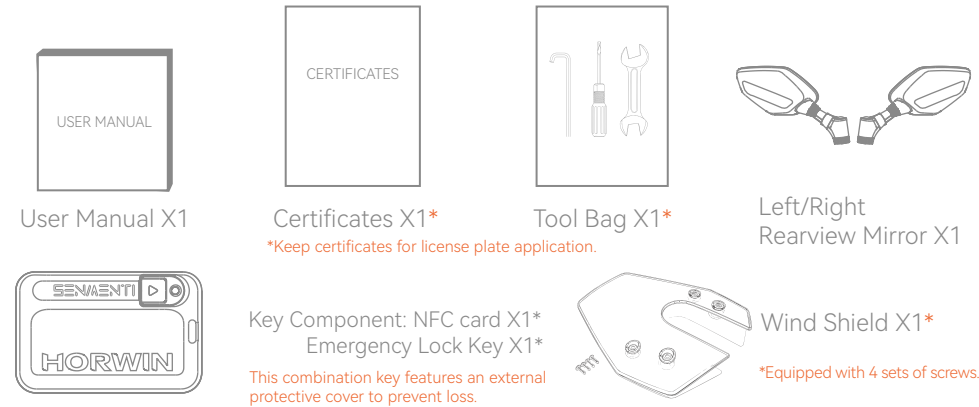


45° rear view of the whole vehicle



1	Rearview Mirror	Installation:page 07
2	Wind Shield	Installation:page 08
3	VIN Code	Installation:page 11
4	Motor Number	Installation:page 11
5	Nameplate	Installation:page 11
6	Glove Box	Installation:page 09
7	Tire Pressure Labe	Operation:page 30
8	Charging Port	Operation:page 39
9	Seat Saddle	Operation:page 07-08
10	USB	Supports: Type-A / Type-C

Diagram of Accessory Package Contents



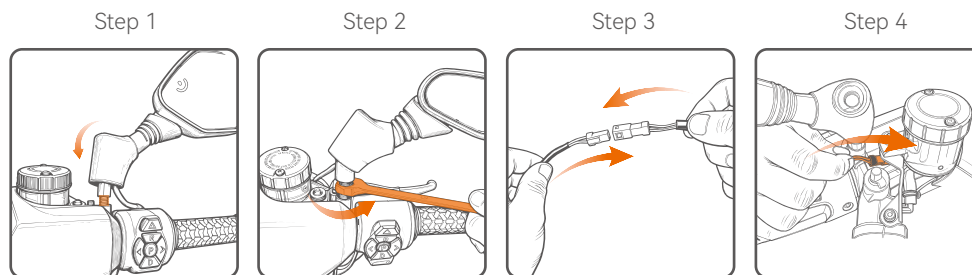
Tips

Check all package contents for completeness and damage.
Contact after-sales hotline 400-607-0001 or HORWIN App for issues.
Physical parts prevail if inconsistent with manual.

Installation of Accessories and Adjustment of Components (with Illustrations)

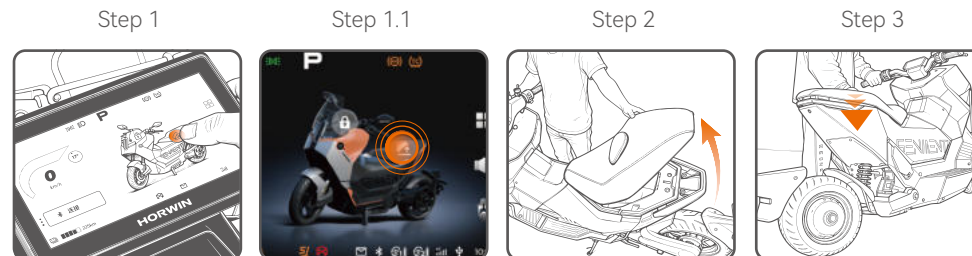
Rearview Mirrors Installation

1. Thread the rearview mirror counterclockwise onto the adapter nut to the required position, then rotate the base nut counterclockwise until contacting the adapter nut.
2. Tighten the adapter nut and mirror base nut in opposing directions using two open end wrenches. Slide the rearview mirror boot down to enclose the nuts.
3. Engage the rearview mirror harness connector. (The mirror incorporates integrated left / right turn signal lamps requiring electrical wiring.)
4. Route and conceal the wire harness to complete assembly.



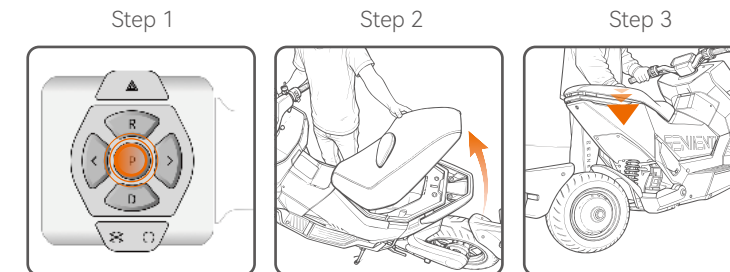
Storage Compartment Operation - Method 1

1. With the vehicle powered on, tap the seat open/close icon located on the right of the instrument panel. An audible click signifies seat unlocking.
2. Lift the seat cushion gently upwards.
3. For closure: Press the seat cushion downwards. An audible click confirms full latching, and the seat icon on the instrument UI displays closed status.



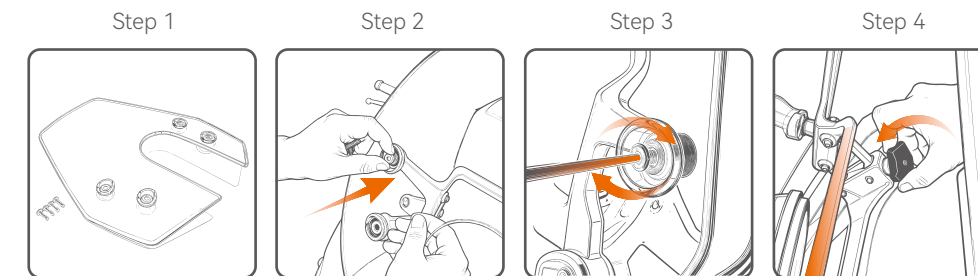
Storage Compartment Operation - Method 2

1. With the vehicle powered on, briefly press the central "P" button on the right handlebar switch three times consecutively to unlock the seat.
2. Lift the seat cushion gently upwards.
3. For closure: Press the seat cushion downwards. An audible click confirms full



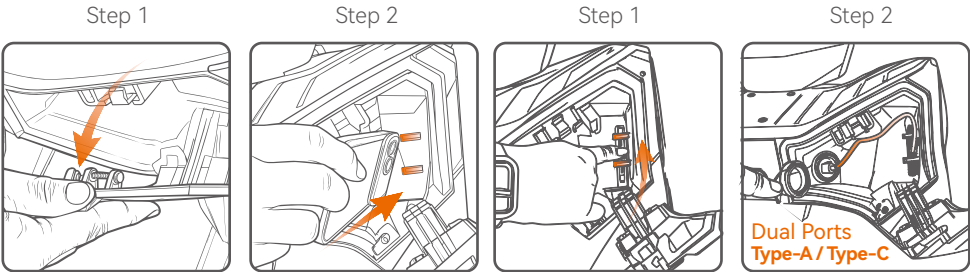
Windshield Installation

1. Prepare the windshield assembly supplied in the accessory kit as illustrated.
2. Position the windshield onto the corresponding front fairing area and align the four screw holes. Secure one hole initially; take one supplied screw, align it with the hole, and fasten the nut using an hexagon socket screwdriver.
3. Align and tighten the remaining three screw holes sequentially.
4. Rotate the black knob on the windshield bracket counterclockwise to adjust the vertical angle of the windshield; turn clockwise to lock. The crossbar can be lifted or lowered as required for height adjustment. Installation completed.

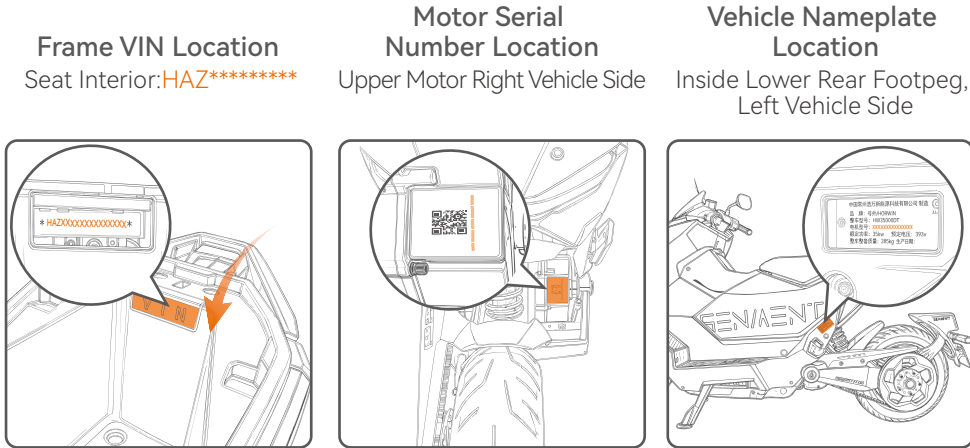


Use of glove box

- 1. Pull the glove box cover downward at the catch groove to open.
- 2. Insert the mobile phone horizontally into the glove box.
- 3. Push the mobile phone inward to engage the latch and stabilize the unit.
- 4. Connect the mobile phone to the port via a user-supplied charging cable for power supply. (Type-A and Type-C ports are supported.)

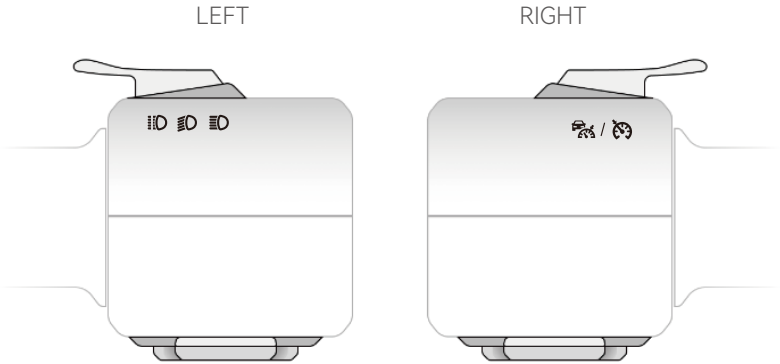


Identification Code Locations

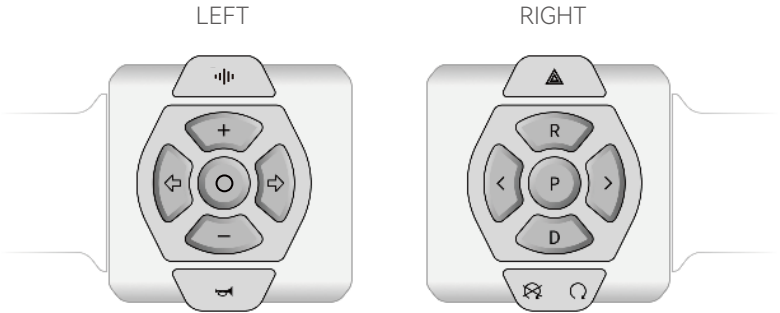


Control Interface Function Correspondence Diagram

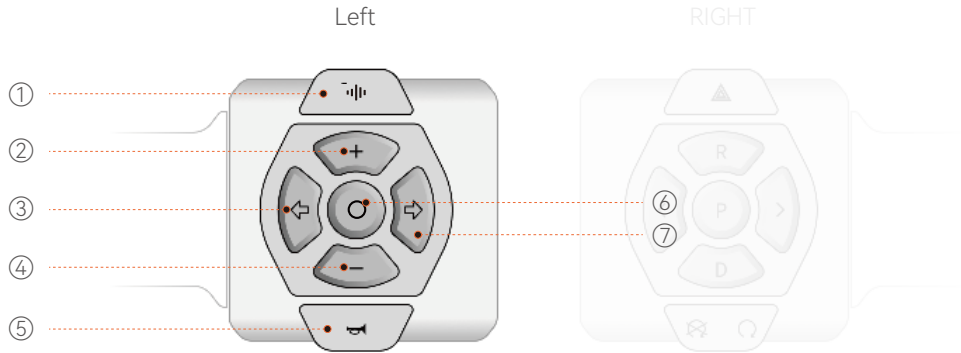
Combination Switch Function Buttons and Operation



Top View

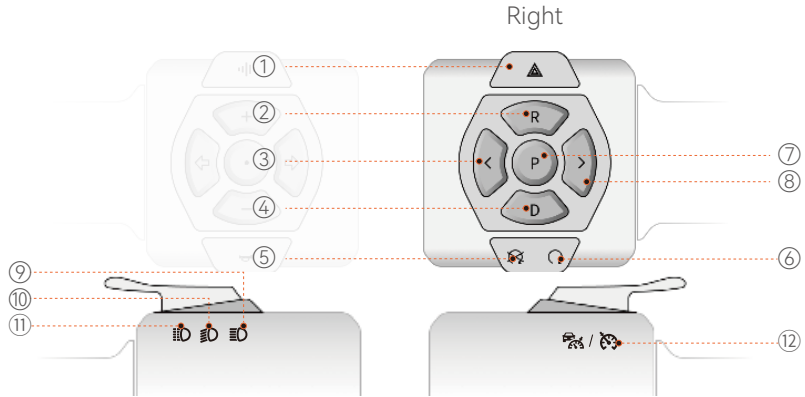


Front View



Symbol	Names	Operation	Precondition	Function Description
①	Multimedia Combination Switch	Single Click	Incoming Call	Answer Call
			Call Connected	End Call
			Multimedia Settings	Exit Multimedia Settings
			Default	Enter Multimedia Settings
② +	Trip Card Scroll Up	Single Click	Incoming Call Ringing	End Call
			Call Connected	End Call
			Default	Scroll Up Trip Card
			Multimedia Settings	Volume Up Single Step+1
		Double Click	Cruise Control Set Mode	Cruise Control Speed+5kph/mph (Speed snaps to nearest 5kph/mph increment; e.g. 7kph/mph rounds up to 10kph/mph.
			Dialog Pop-up	Confirm
		Double Click	Multimedia Settings	Hold for 500ms, then continuous volume +1 step per 300ms
			Cruise Control Set Mode	After pressing and holding for 500ms, the speed increases by 5kph(mph) every 300ms. The speed snaps up to the next multiple of 5kph/mph; for example, 7kph/mph will snap to 10 kph/mph.

Symbol	Names	Operation	Precondition	Function Description
③	Left Turn Indicator	Single Click	Default	Turn On Left Turn Indicator
			Left Turn	Turn Off Left Turn Indicator
			Right Turn Indicator Active	Turn Off Right Turn Indicator, Turn On Left Turn Indicator
			Multimedia Settings Mode	Previous Track
④ -	Scroll Down Trip Card	Single Click	Default	Scroll Down Trip Cards on Instrument Cluster
			Multimedia Settings Mode	Decrease Volume by 1
			Cruise Control Set Mode	Decrease Cruise Speed by 5 kph(mph)The cruise speed will snap down to the nearest multiple of 5 kph/mph after adjustment. For example,
			Instrument Dialog Pop-up	Cancel
		Double Click	Multimedia Settings Mode	Hold 500ms, then Decrease Volume - 3/300ms
			Cruise Control Set Mode	The vehicle cruise speed shall snap down to the nearest multiple of 5 kph/mph. For example, if current speed is 7 kph/mph, it shall be rounded down to 5 kph/mph.
⑤	Horn Trigger	Hold Horn	Default	Sound Horn (Horn duration is determined by press duration)
⑥	Turn Indicator Reset	Single Click	Left/Right Turn Indicator Active	Deactivate Left/Right Turn Signal
			Multimedia Settings Mode	Play/Pause
			Cruise Control Set Mode	Resume Cruise Speed (RES)
		Triple Click	P Gear	Disable Display Touch Functionality
			Touch Disabled	Enable Display Touch Functionality
		Hold	Hold Park Button for 7s	Reboot Infotainment System
⑦	Right Turn Indicator	Single Click	Default	Activate Right Turn Signal
			Right Turn Indicator Active	Deactivate Right Turn Signal
			Left Turn Indicator Active	Deactivate Left Turn Signal and A ctivate Right Turn Signal
			Multimedia Settings Mode	Next Track



Symbol	Symbol Name	Operation	Precondition	Function Description
①	Hazard Warning	Single-click	Default	Turn on hazard warning lights (cannot be interrupted by turn signals)
②	Reverse Gear	Single-click	Default	Switch to reverse gear
③	Riding Mode	Single-click	Default	Switch riding mode to the left
④	Drive Gear	Single-click	Default	Switch to drive gear
		Long Press button for >1s	Default	Switch to walk mode
⑤	Power Cutoff	Left (button state)	Default	Default
⑥	Power Connection	Right (button state)	Default	Default
⑦	Park Gear	Single-click	Default	Default
		Triple-click	P Gear	P Gear
		Long Press	Hold "turn signal reset" button for >1s	Restart vehicle system
⑧	Riding Mode Switch / Right	Single-click	Default	Switch riding mode to the Right
			RUSH mode	Exit RUSH mode
		Double-click	SPORT mode	Enter RUSH mode
⑨	High Beam	Push	Default	Turn on high beam (low beam stays on)
⑩	Low Beam	Center	Default	Turn on low beam
⑪	Flash-to-Pass	Push(keep)	Default	Turn on high beam (low beam stays on)
⑫	Cruise Control	Push Twice	Default	Activate cruise control / SET
		Push Twice	Activate the cruise control	Turn off the cruise control
		Keep	Default	Enter cruise control setting state

Instrument Panel Pages & Indicator Lights

Instrument Panel Main Interface



*This is the factory default state. Minor color variations are within regulatory limits.

Note: Do not use sharp objects to operate the screen, as this may damage it.

WARNING

The screen is inoperable while the vehicle is moving. For safe riding, operate the screen only when the vehicle is in Park (P) and when road and traffic conditions permit.

If you wish to use certain functions while riding, we recommend using the handlebar-mounted control buttons as the primary means of activation, to ensure safety.

Indicator Symbol Reference Table

Symbol	Symbol Name	Description
	Battery Level Indicator	Illuminating indicates normal battery operation.
	Low Battery Warning	Illuminating warns of low battery. Charge promptly to avoid performance loss and reduced battery life.
	Power Battery Disconnect	Illuminating indicates battery disconnect.
	Position Light	Illuminating indicates position light is on.
	High Beam	Illuminating indicates high beam is on.
	Low Beam On	Illuminating indicates low beam is on.
	Low Beam Malfunction	Illuminating indicates low beam malfunction.
	Adaptive High Beam – On	Illuminating indicates adaptive high beam is on.
	Adaptive High Beam –Malfunction	Illuminating indicates adaptive high beam malfunction.
	ABS	Illuminating: ABS active. Flashing: ABS malfunction –pressing brake have risk of rollover. Park safely and contact after-sales service.
	TCS	Illuminating: TCS active. Flashing: TCS malfunction – press brake in an emergency. Park safely and contact after-sales service.
	Coolant Indicator – High	Illuminating warns of coolant overheating. Park safely.
	Coolant Indicator –Warming Up	Illuminating indicates coolant is warming up. Park safely.
	Coolant Level Low	Illuminating warns of low coolant. Park safely.
	Electric Drive System Malfunction	Illuminating indicates drive motor fault. Park safely to prevent accidents.
	Motor Overheat	Illuminating warns of motor overheating. Park safely to prevent accidents.
	Battery Thermal Runaway	Illuminating warns of battery overheating. Park safely to prevent accidents.
	Battery System Malfunction	Illuminating indicates battery system fault. Park safely to prevent accidents.

Symbol	Symbol Name	Description
	Powertrain Limited	Illuminating indicates limited powertrain output. Park safely to prevent accidents.
	Powertrain Malfunction	Illuminating indicates a powertrain malfunction. Park safely to prevent accidents.
	High-Voltage Insulation Fault	Illuminating indicates a high-voltage insulation fault. Park safely to prevent hazards.
	Charging Gun Connected	Illuminating indicates the charging gun is connected.
	Charging Status	Illuminating indicates the vehicle is charging.
	Power Limitation Warning	Illuminating indicates limited powertrain performance. Park safely and contact after-sales service.
	Tire Pressure Alert	Flashing indicates abnormal tire pressure (below 2.3 bar). Constantly illuminating indicates a TPMS malfunction, park safely.
	Low-Voltage Battery Indicator (12V)	Illuminating indicates a low-voltage power system fault. Park safely to prevent accidents.
	Parking Assist – Active	Illuminating when auto hold is active. Flashing indicates auto hold is about to disengage.
	Parking Assist – Inactive	Illuminating indicates auto hold is inactive.
	Parking Assist – Malfunction	Illuminating indicates a parking assist malfunction.
	Hill Descent Control – Active	Illuminating indicates HDC is active.
	Hill Descent Control –Inactive	Illuminating indicates HDC is inactive.
	Hill Descent Control –Malfunction	Illuminating indicates an HDC malfunction.
	cc-Active	Illuminating indicates cruise control is active.
	cc-Malfunction	Illuminating indicates a cruise control malfunction.
	cc-Brake Override	Illuminating indicates cruise control has been overridden by braking.
	cc-Standby	Illuminating indicates cruise control is in standby mode.
	Maintenance Reminder	Illuminating indicates a maintenance reminder.

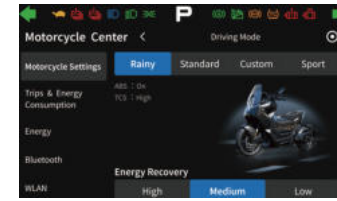
Symbol	Symbol Name	Description
	Left Turn Signal	Illuminating alone indicates a left turn. Illuminates with right signal to indicate hazard warning lights.
	Right Turn Signal	Illuminating alone indicates a right turn. Illuminates with left signal to indicate hazard warning lights.
	P	Illuminating indicates Park gear is engaged.
	D	Illuminating indicates Drive gear is engaged.
	R	Illuminating indicates Reverse gear is engaged.
	N	Illuminating indicates Neutral gear is engaged.
	F	Illuminating indicates Walk mode is engaged.
	Battery Level Indicator	Displaying the remaining battery.
	Ready to Drive	Illuminating indicates the vehicle is ready to drive.
	Power Disconnect	Illuminating indicates high-voltage battery is disconnected (HV off).
	Side Stand Down	Illuminating indicates the side stand is deployed.
	Touch Lock	Illuminating indicates the touchscreen is locked.
	Regenerative Braking Limited	Illuminating indicates regenerative braking is limited. Drive cautiously.
	Vehicle Lean Angle	Illuminating shows current vehicle tilt angle.
	Standard Mode	Illuminating indicates Standard riding mode.
	Custom Mode	Illuminating indicates Custom riding mode.
	Rain Mode	Illuminating indicates Rain riding mode.
	Sport Mode	Illuminating indicates Sport riding mode.
	RUSH Unavailable	Illuminating indicates RUSH mode is unavailable.
	RUSH Available	Illuminating indicates RUSH mode is available.
	RUSH Active	Illuminating indicates RUSH mode is active.
	Cruise Preset Speed Limit	Illuminating indicates cruise control preset speed limit.
	Cruise Active	Illuminating indicates cruise control is active.

Riding Mode



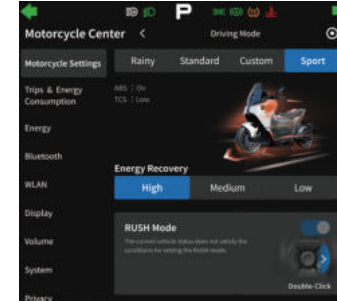
STANDARD Configurable Parameters:

- Standard Mode: ABS: on, TCS: high
- Regenerative Braking Intensity: medium by default, adjustable among Low, Medium, High.



RAINY Configurable Parameters:

- Rain Mode: ABS: on TCS: High
- Regenerative Braking Intensity: Medium by default, adjustable among Low, Medium, High.

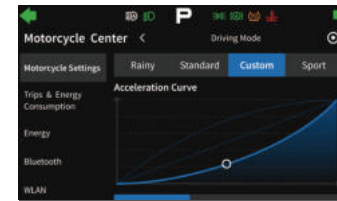


SPORT Configurable Parameters:

- Sport Mode: ABS: on TCS: Low
- Regenerative Braking Intensity: Medium by default, adjustable among Low, Medium, High.

RUSH Riding Mode:

- RUSH mode is unlocked after 100 km total mileage.
- In SPORT mode, double-press ">" to activate RUSH mode.



CUSTOM

Custom Riding Mode:

Remembers the last custom settings. When the tab is switched to CUSTOM, the specific custom settings are displayed below. Custom settings require login to use.

- Only the vehicle owner account can modify CUSTOM riding mode parameters.
- Acceleration Curve: Supports three modes: Comfort, Linear, Aggressive. Default: Comfort.
- Acceleration Performance: Default 50%. Adjustable from 50% to 100% via slider in 10% increments.
- Speed Limit: Default 200 km/h (If system distance unit set to meters, this field syncs automatically). Adjustable from 130 km/h (minimum) to 180 km/h (maximum) via slider in 10 km/h increments.
- TCS Level: Medium by default. Adjustable among Low, High, and Off.
- Regenerative Braking Intensity: Level 4 by default. Adjustable from Level 0 to 6. Slide the progress bar or tap the corresponding grid to select the desired level.

HORWIN APP

App Installation Guide

You may download and install the HORWIN APP via official app marketplaces as listed below:

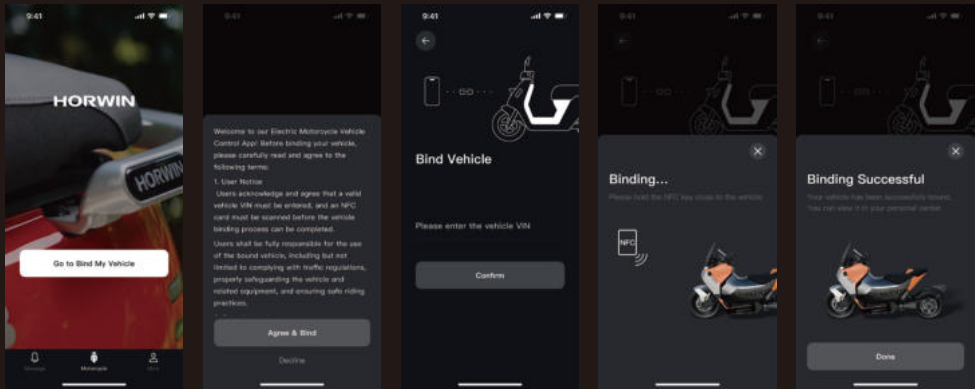
System	Download Channel	APP Name
IOS	APP Store	HORWIN
Android	Mainstream Mobile Brand	HORWIN

App Vehicle Binding&Unbinding

App Binding Process

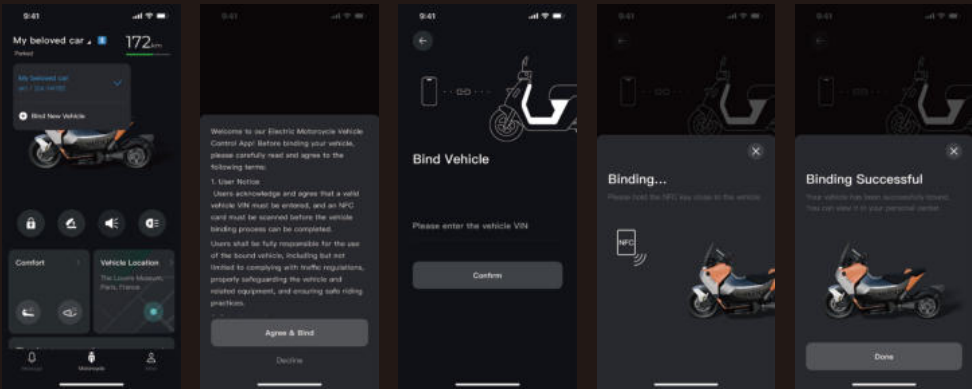
NewUser Activation & Binding Steps:

- ① Log in to the HORWIN APP as a new user;
- ② Turn on Bluetooth on your smartphone;
- ③ Tap My Vehicle, then select Bind a New Vehicle,
- ④ Agree to the binding agreement as prompted, enter the VIN code for verification, then follow instructions to use the NFC key card,noted with tap the NFC card against the vehicle to power it on when the vehicle is powered off.
- ⑤ Complete binding.



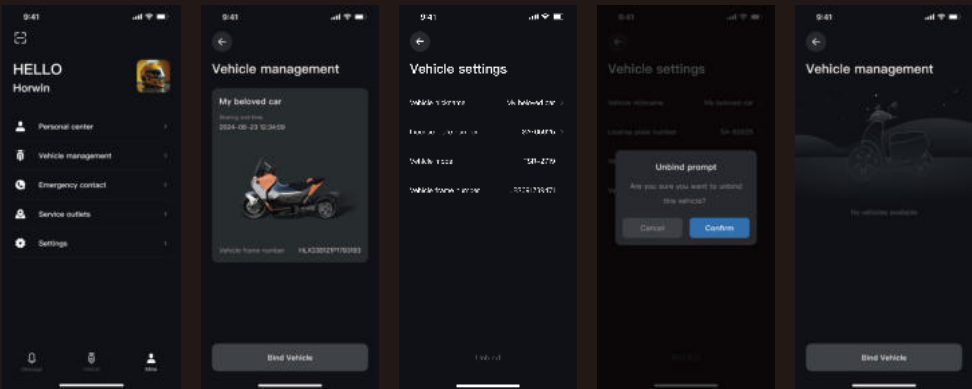
Secondary Binding for Existing Users:

- ① Tap My Vehicle; ② Tap My Rides again;
- ③ Tap Bind a New Vehicle; ④ Repeat the full new vehicle binding workflow;
- ⑤ Finish binding.



App Vehicle Unbinding Procedure

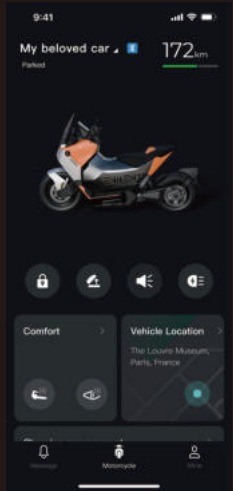
- VehicleUnbinding Procedure: ①Enter the My Profile page;
- ② Open Vehicle Management; ③ Select the target vehicle card;
 - ④ Tap Unbind Vehicle and confirm the operation; ⑤Unbinding completed.



Basic Operation & Riding Guide

Remote Vehicle Information Inquiry

Open the HORWIN APP and tap Sign Up / Log In. Complete login by submitting your personal information, then you may check the status of all bound vehicles.

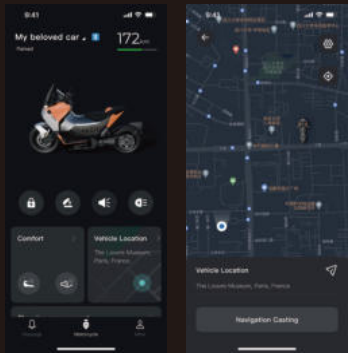


Available Vehicle Information:

- > Basic vehicledata: VIN code
- > Battery status: Remaining battery percentage & estimated remaining range
- > Mileage: Total vehicle mileage
- > Vehiclestate:Locked or unlocked,started, or parked
- > Location Information: VehicleLocation Information
- > Vehicle Charging: Uncharged / Starting to charge / Charging in progress / Charging completed, Charging error, Charging limit, Total range covered, Charging port turned on but no charger connected, Remaining charging time and power, etc.
- > Tire pressure status: Tire pressure value and pressure alarm (red text appears when pressure is abnormal; displays "-" when the press ure signal is lost)
- > Hand grip heating mode: Level 3 / Level 2 / Level 1 / OFF
- > Seat heating status: Level 3 / Level 2 / Level 1 / OFF

RemoteControl Vehicle

Some vehicle functions can be controlled remotely. Log in with your Horwin account, link your vehicle, and control it remotely for convenient travel.。



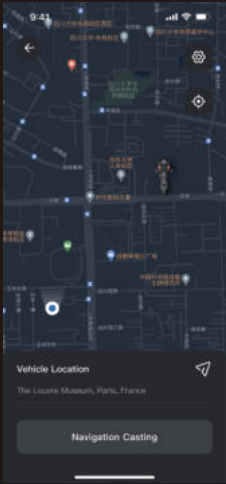
Remote Control Functions Supported by HORWIN APP

- > Vehicle Lock: Click to unlock or lock the vehicle
- > Seat Lock: Click to enable seat lock
- > Flashlight: Activating the vehicle lights to flash helps locate the vehicle (a low-disruption method).
- > Horn: Clicking activates the vehicle's horn and turns its lights on and off, helping you locate the vehicle.

VehicleLocation

Open the Horwin app, go to My Car> Vehicle Location, and view your vehicle's current location.





Viewable Data

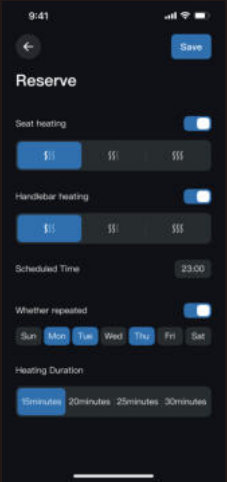
- > Vehicle operating stat us & positioning data
- > Shared vehicle locatio n function

Comfort

Open the Horwin app, go to Car > Comfort, and set the steering wheel seat to instant heating.







Adjustable Parameters:

- > Timed heating
- > Handgrip heating settings
- > Seat heating settings
- > Timer clock
- > Cycle heating duration

Ride History

Open the Horwin APP and go to **My Vehicle > Ride History**, to view all ride history

Ride History >

2 bar

Today's Record

89.2 km

Today's Mileage

Driving Record

05 04 03 02 01 202312

254.6 km

18.8 33-24 min 48.4 km/h

05月06日 79.3km

08:55 34.7 min 56 min

1010 min 76.8 km/h 28.5 km/h

2024-05-08 12:34

34.7 min 56 min

1010 min 76.8 km/h 28.5 km/h

Speed Graph

Ride History

> Time

> Distance

> Duration

> Total Energy Consumption

> Top Speed

> Average Speed

Energy Management

Open the Horwin APP and go to **My Vehicle > Energy Management**, to manage charging.

My beloved car 300 km

42%

32% 4h22min

220V 15A 27km/hr +12km

Stop

Charging:

> Battery Level

> Remaining Time

> Voltage

> Current

> Power

> Range Added

> Charging Limit

Safety and Riding

Open the Howin APP and go to **My Vehicle > Safety and Riding**, to configure vehicle safety-related settings.

Safety & Driving

Bluetooth key Not activated

Key Sharing

Electronic fence

Maintenance Reservation

Bluetooth Seamless

Manage the settings for the following functions:

> Bluetooth Key Management: Set up your phone as a key to lock and unlock the vehicle.

> Key Sharing: Share and manage vehicle key permissions.

> Electronic Fence: Add, delete, or disable the electronic fence. Set the fence range and configure entry and exit alerts.

> Service Appointment: Schedule maintenance appointments by selecting the service time, location, and service provider. You can also view previous maintenance records.

> Keyless Switch: After enabling this function, users can unlock the vehicle by approaching, automatically unlock at close range, and lock the vehicle when leaving.

Vehicle Status

Open the Horwin APP and go to **My Vehicle > Vehicle Status**, to view vehicle information.

Vehicle Status >

237 kPa 36℃

237 kPa 36℃

237 kPa 36℃

237 kPa 36℃

Current range 46.6 km

Total mileage 8496 km

Vehicle Status

> Tire Temperature

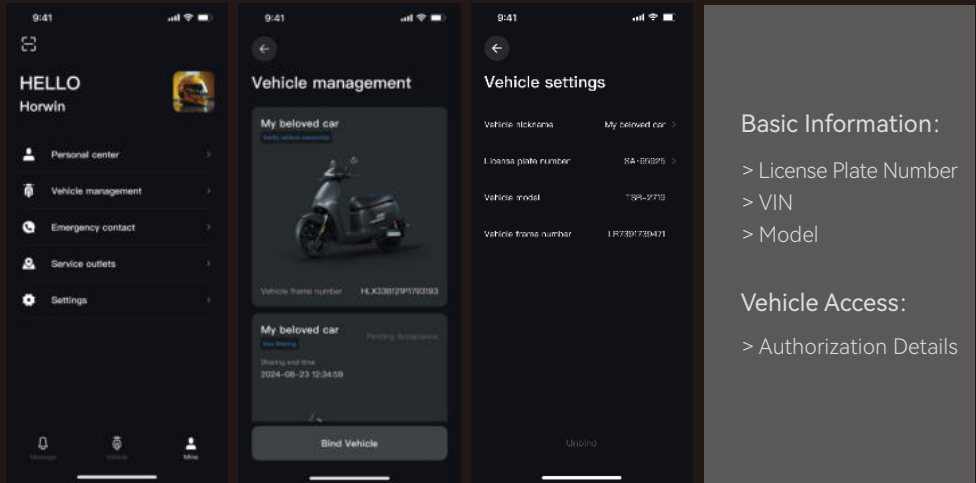
> Tire Pressure

> Total Mileage

> Current Range

Vehicle Management

Open Horwin APP, After logging in to the HORWIN App and binding your vehicle, go to **My > Vehicle Management**, to view basic vehicle information and manage permission settings.



Hill Hold Assist System

Purpose

The Hill Hold Assist System is designed to keep the vehicle stationary on a slope for an extended period, such as when waiting in traffic or stopping at traffic lights. When the vehicle meets the activation conditions for the Hill Hold Assist function, squeeze and hold the brake lever for 3 seconds while the vehicle is stopped. After releasing the brake lever, the Hill Hold Assist function will be activated.

Setting Method

The Hill Hold Assist System is disabled by default when the vehicle is powered on for the first time. You can enable or disable the Hill Hold Assist function by tapping the “**Special Riding Conditions**” icon in the function bar, at the bottom of the central display and selecting “**Hill Hold Assist**”.

① Tap the “**Special Riding Conditions**” icon in the function bar at the bottom of the central display and select “**Hill Hold Assist**” to enable the function. The instrument panel will display a white Hill Hold Assist standby indicator. When the operating conditions for the Hill Hold Assist function are met, the indicator will turn green.

② Select “**Hill Hold Assist**” again to disable the function. The hill parking assist function will be turned off.

③ The vehicle will exit the Hill Hold Assist state and return to standby mode when the throttle is turned, the gear is switched to F or R, or the side stand is lowered.

 **Tips**

- > If the standby conditions for the Hill Hold Assist System are not met, the system will automatically exit standby mode.
- > When the Hill Hold Assist function is active, the brake light will illuminate, and the Hill Hold Assist indicator on the instrument panel will turn green.
- > If the Hill Hold Assist System fails to activate or is about to disengage immediately take control of the vehicle.
- > For temporary use on slopes only. Do not use as a substitute for the parking brake.

Hill Descent Control (HDC)



Objectives

- HDC brakes the wheels during downhill to maintain a stable speed.
- HDC can be activated when the vehicle speed is below 40 km/h.
- The system allows the vehicle speed to be set within a range of 5 km/h to 40 km/h (speed calibration pending).

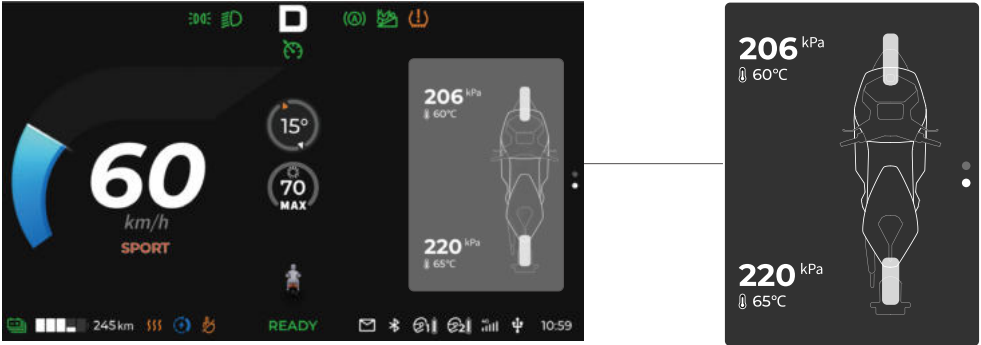
Setting Method

HDC is off by default. Enable / disable in "Vehicle Center" under "Vehicle Settings".

Interaction Flow

- When HDC is enabled, the HDC indicator light on the center display illuminates.
- On downhill, HDC engages, slows vehicle to set speed and holds it. During this process, the HDC indicator on the center display flashes.
- After engagement, use accelerator or brake to adjust:
 - ① Press accelerator to ≥40 km/h, release current speed becomes new target.
 - ② Press brake to ≥5 km/h, release current speed becomes new target.

Tire Pressure Monitoring System



Objective

TPMS monitors tire pressure and temperature in real time, alerting the driver to anomalies to prevent accidents.

Monitoring

After startup, pressure and temperature of front/rear tires are displayed on the instrument cluster. Normal pressure range: 200~245 kPa. Alerts appear on cluster for under/over pressure or overheat

Pressure Alerts

Low or high pressure triggers Level 1 (yellow) or Level 2 (red) warning for the affected tire, and the TPMS warning lamp illuminates.

Temperature Alerts

Overheat triggers Level 1/2 warnings for the affected tire, and the TPMS warning lamp illuminates.

TPMS Fault Alert

If the TPMS fails, the fault warning lamp on the instrument cluster flashes then stays on. Please visit a service center for inspection as soon as possible.



WARNING

- > Riding with low pressure can damage tires.
- > If the warning lamp comes on, avoid hard braking / turning. Reduce speed, pull over safely, check tire pressure, and contact service.
- > After tire replacement, have sensors re-matched at a service center.

Anti-lock Braking System



Objectives

The ABS uses electronic control technology to automatically modulate braking force, preventing wheel lock during braking. This ensures optimal braking efficiency and enhances safety by avoiding rear-wheel skid and loss of steering control on straights or curves – improving braking stability, controllability and safety.



WARNING

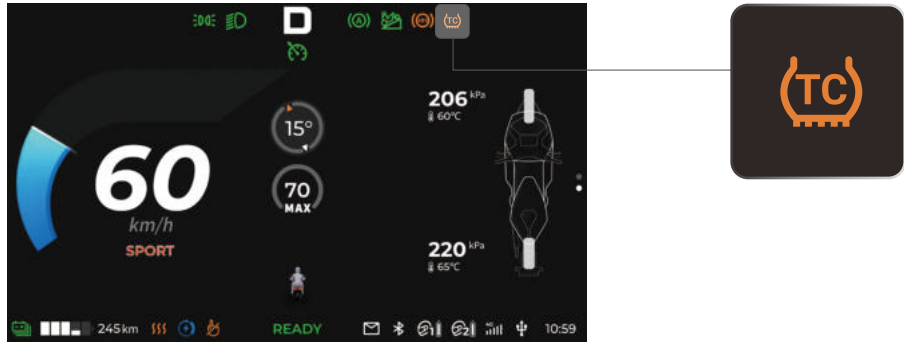
> ABS is a driver assistance system only. Do not drive recklessly relying on its added safety features. Always adjust vehicle speed to weather, road and traffic conditions; you are fully responsible for your vehicle's safety.

> Maintain a safe following distance and remain aware of potential hazards at all times. Even with ABS, physics still apply, it cannot prevent accidents caused by tire slippage on water films or other low traction surfaces.

Functional Limitations

- Do not pump brake pedal or lever during emergency braking – it increases stopping distance.
- Modifications to brakes, wheels or tires may impair ABS.
- Use only factory-spec tire sizes.
- ABS may lengthen stopping distance on mud, gravel, snow, bumpy or uneven roads – maintain extra following distance.
- ABS may be less effective when exceeding tire grip (e.g., worn tires on snow) or riding at high speed on slippery surfaces.

Traction Control System



Objectives

When starting or accelerating, the Dynamic Traction Control system reduces motor torque to minimize drive wheel slip and improve directional stability.

When quickly closing the throttle, the Motor Schleppmoment Regelung system reduces regenerative braking torque to ensure smooth deceleration, enhancing directional stability and riding comfort.

When a pop-up prompt appears on the instrument cluster and the traction control indicator stays on, the system is actively intervening.



WARNING

> TCS is a driver assistance system only. Do not drive recklessly relying on its added safety features.

> Always adjust your speed to weather, road and traffic conditions; you are fully responsible for your vehicle's safety.

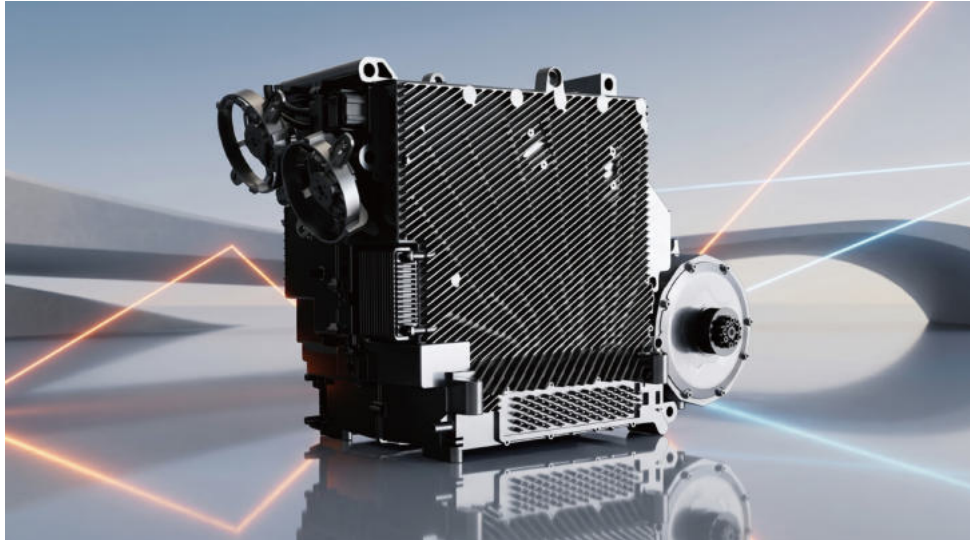
High-Voltage Powertrain System

Definition Overview

Breaking away from the layout of conventional fuel motorcycles and the split three-electric architecture of traditional electric two-wheelers, the SENMENTI ONE adopts an in-house fully self-developed IM integrated powertrain chassis built on a unified frame. Centered on the R&D philosophy of "energy efficiency & loss reduction", the model drastically boosts energy utilization efficiency and delivers revolutionary performance upgrades. Equipped with a 400V high-voltage platform and a 16.9 kWh battery pack, the SENMENTI ONE outputs power of 74 KW. It achieves a 0–100 km/h acceleration in only 3.3 seconds, a top speed of 200 km/h, a maximum cruising range exceeding 300 km, and ultra-fast full charging within 30 minutes.

Operating Principle

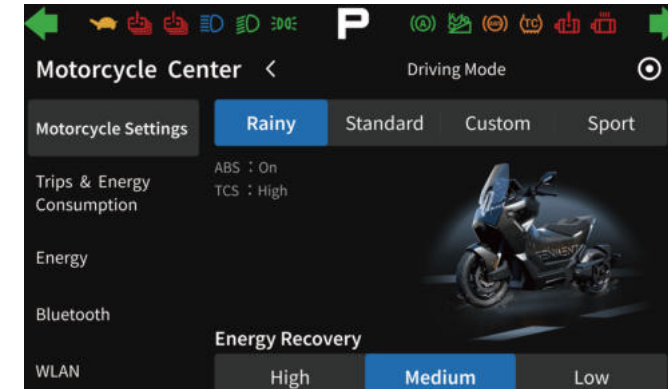
SENMENTI ONE achieves completely emission-free operation through its electric drive system. A dedicated high-voltage battery supplies power to the motor. Under all riding conditions—such as starting, accelerating, or at high speeds—the high-torque motor ensures robust performance. The high-voltage battery can be charged via a charging cable during stationary safety states like parking, or through energy recovery while in motion. Charging can be performed rapidly using standard EV fast-charging stations worldwide, or via portable home DC chargers for residential use.



Principle of Energy Recovery

Energy recovery enables charging of the high-voltage battery during cycling. This system minimizes energy loss when decelerating by allowing the motor to act as a generator, converting part or all of the released kinetic energy into electrical current. The recovered electricity is then recharged back to the battery, maximizing range. This charging process can be activated while the throttle is closed or in energy recovery mode. The vehicle's display interface shows real-time energy recovery levels, enabling proactive riding decisions and timely deceleration – essential for optimal utilization of the bike's energy recovery capabilities.

Customizable Energy Recuperation Adjustment Procedure



Step 1: Enter Vehicle Center

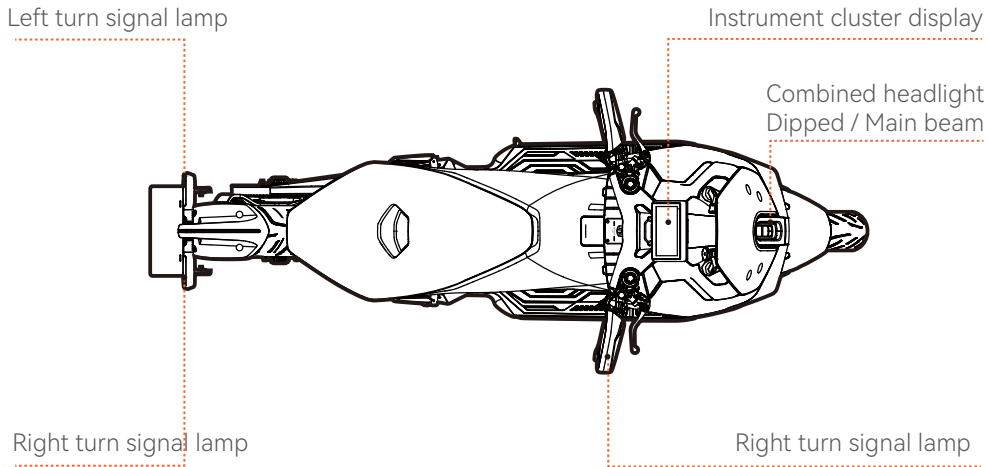
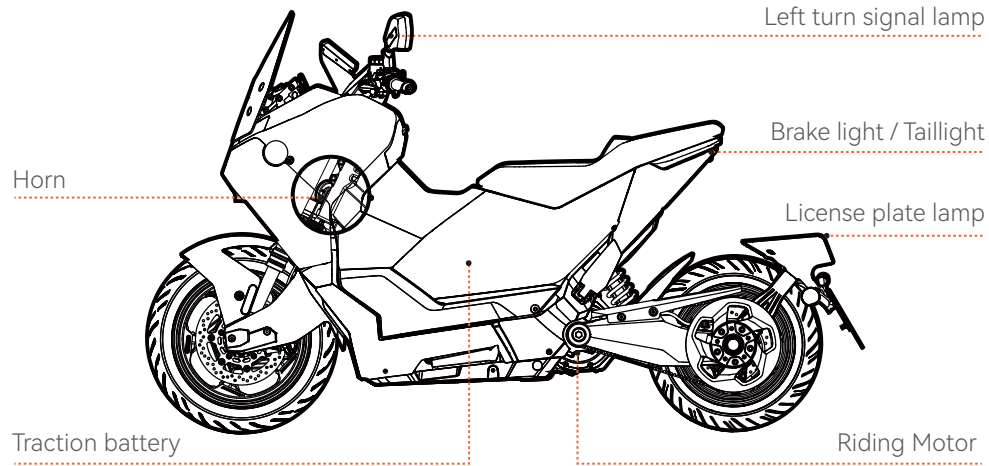
- > Riding Mode
- > Energy Recuperation Options
- > Adjustable in three levels:
 1. High
 2. Standard
 3. Low



Step 2: Return to View Travel History

- > Can be fine-tuned based on actual riding conditions

Main Electrical Components



High-Voltage Battery Information

To protect high-voltage batteries, it is recommended to maintain a battery level of at least 30% during daily use.

When the high-voltage battery falls below 30%, the vehicle enters a self-sustaining standby mode for up to approximately 15–20 days. After this period, both the high-voltage and low-voltage batteries may lose power.

If the vehicle will be unused for more than 15 days, fully charge the battery in advance. If idle over 30 days, fully charge monthly. In winter, check battery weekly and recharge as needed. For long storage, disconnect low-voltage battery negative terminal; consult service



When parked unplugged, the bike drains battery for self-checks and low-voltage battery top-up. Avoid charging only at low state; regular charging keeps battery in best condition.



Zero-percent battery discharge may damage parts like the low-voltage battery. All repair and transport fees are owner's cost and excluded from warranty & roadside assistance

Frequent DC fast charging will slightly lower the battery's peak charging rate. To protect battery safety and maximize riding range, charging power will decrease under low temperature, nearly full charge or battery aging, which may add several minutes to supercharging time. You can use the built-in route planning function to preheat the battery on the way to superchargers and shorten charging time effectively.

Battery Maintenance

Daily Using Guidelines

- Before riding for the first time, fully charge the battery completely. This calibration ensures the real battery capacity matches the dashboard display accurately.
- The Sentiment One is equipped with CTB integrated battery-body technology. Do not expose the CTB body part to hitting, collision, squeezing, piercing, fierce vibration or heavy pressure, rollover and falling, which will lead to body deformation and internal damage. Visit official service center for inspection after such incidents.
- Do not touch internal circuits or battery terminals with bare hands or metal to avoid electric shock and short circuit.
- Long-time uphill climbing or continuous high-speed riding will overheat the battery and motor. The vehicle will activate self-protection to reduce speed or cut power temporarily. You can continue riding only after the temperature drops to normal range.

Long-term Parking Guidelines

- Keep the motorcycle stored in a cool, dry, clean and well-ventilated space.
- For long-term parking, maintain the battery charge between 50% and 80%. Long storage with charge under 30% will lead to irreversible battery capacity degradation.
- The vehicle's intelligent and anti-theft systems consume power while on standby. Regularly check battery level by powering on the bike or mobile app, and recharge promptly when needed.
- Battery capacity will gradually drop and power consumption will increase as the bike ages. Take it to after-sales service regularly for professional battery health inspection.

Temperature Limitation



Note:

To maintain optimal performance over the long term, avoid exposing SENMENTI 0 to temperatures exceeding 45°C or falling below -10°C for more than 24 hours.

Waterlogged Vehicle

As with any vehicle, if your HORWIN electric motorcycle is affected by flooding, extreme weather conditions, or water immersion (especially in saltwater), treat it as an accident and contact your insurance company for assistance. Do not attempt to operate



Attention:

Water-related damage is not covered by the warranty

Warnings and Precautions Regarding Batteries



Warning:

- > The high-voltage system shall only be maintained by trained technicians; never open or modify the battery, and do not disassemble, remove or replace any high-voltage components, cables or connectors without permission. All high-voltage cables are marked orange for easy identification.
- > When the battery drains to 0%, charge it immediately. Long-term zero-power storage may render the SENMENTI ONE unstartable or unchargeable without low-voltage battery jump-start or replacement, and can permanently damage the battery. If the vehicle still cannot be charged after low-voltage jump-start, book an official service inspection.
- > The battery requires no maintenance from the owner. Do not remove the coolant tank cap or add fluid. If the touchscreen displays a low-level warning, use the mobile app to schedule service.
- > Do not use the battery as a fixed power source through any unofficial modifications, as this will void the warranty.

Charge

Charging Steps

Supports supercharging mode for automotive DC charging piles. First, connect the fast-charging adapter to the battery port. The instrument screen and HORWIN APP will display the charging status on the UI interface.



- During vehicle charging, the SENMENTI ONE instrument panel displays: charging duration, charging power, and range. The "End Charging" button allows you to stop charging at any time.
- During vehicle charging, the HORWIN APP displays: battery level, remaining time, voltage, current, power, and increased range. The "End Charging" button allows you to terminate charging remotely at any time.

Warning: Minors must not operate or touch charging equipment. The charging gun carries high voltage; keep children away during charging.

- Charging may interfere with medical and implantable electronic devices; consult the device manufacturer prior to charging.
- Please charge in a relatively safe environment (avoid areas containing hazardous chemicals, fire sources, heat sources, lightning, flammable or explosive materials, etc.).
- Use dedicated charging equipment for electric vehicles that complies with relevant national standards:
- Do not modify, disassemble, or repair charging devices or their associated ports to avoid charging malfunctions and potential fires.
- The use of substandard products is strictly prohibited.
- Under no circumstances should operations be performed with wet hands or contact be made with exposed metal surfaces of the charging port or charging base, as this may cause electric shock and personal injury.
- During charging, if you notice any abnormalities in the vehicle or charging device—such as unusual odors or smoke—stop charging immediately and contact a Davinci authorized service center.
- When charging, do not shake the charger to avoid damaging the vehicle's charging port.
- Do not repair the vehicle while charging.
- Before starting the vehicle, ensure you remove the charging and discharging device and close the charging port cover.



Charging Precautions

DC charging is available in any power mode. For safety, shift to P (Park) before charging.

- If the external power supply is temporarily interrupted and restored, the Davinci charger will automatically resume charging. No reconnection is required.
- If the charging port cover or charging connector is frozen due to weather conditions, do not force the charging port cover open or forcibly disconnect the charging connector.

To Prevent Damage to the Charging Equipment (Charging Equipment Precautions) :

- Before starting the vehicle, ensure that the charging equipment is disconnected. If the charging connector locking mechanism is not fully engaged, the vehicle may still shift into D and move, which may result in damage to the charging equipment and the vehicle.
- Do not close the charging port cover while the charging port protective cap is open.
- Do not pull or twist the charging cable with excessive force.
- Do not subject the charging equipment to impact. Protect it from drops, impacts, and other mechanical damage.
- Do not store or use the charging equipment at ambient temperatures above 40°C.
- Do not place the charging equipment near heaters or other heat sources.

Precautions Before Charging:

- Ensure that the charging connector and charging port are free of foreign objects, and that the protective cap on the charging connector terminals is not loose or deformed.
- Hold the charging connector, align it with the charging port, and insert it fully until it is securely seated.

Charging Precautions:

- Do not remain on the vehicle while charging.
- Park the vehicle in a well-ventilated area while charging.
- During charging, the charging power displayed in the mobile app may fluctuate briefly when battery self-heating is activated. This is normal.
- The mobile app displays the estimated charging time. Actual charging time may vary depending on ambient temperature, battery state of charge, and charging equipment.
- For DC charging, charging to 80%–90% is recommended. Charge to 100% if time permits.

Charging Completion Precautions:

- Stop charging and ensure that the charging port is unlocked.
- Hold the charging connector, press and hold the button on the connector, and remove it from the charging port.
- Do not forcibly remove the charging connector while the charging port is locked, as this may damage the charging port.
- After removing the charging connector, ensure the protective cap and charging port cover are closed to prevent water or foreign objects from entering the charging port.
- Charging performance may be affected when the battery temperature is too low or too high.
- During low-temperature charging, the battery thermal management system may extend charging time and increase heating energy consumption. This is normal.
- In cold regions, it is recommended to charge at charging stations located in heated areas.
- In regions with high ambient temperatures, it is recommended to charge in a cool and well-ventilated area.

To enhance the user experience, the following recommendations are provided:

- When the SOC indicator bar on the mobile app or instrument cluster turns red, the power battery is low. Charge promptly to protect battery service life.
- It is recommended to charge the vehicle immediately after use, as the battery remains warm. Charging performance is improved in cold weather, while charging time may increase in hot weather.



How to Start/Stop the Vehicle

The SENMENTI ONE can be started or turned off in three ways: HORWIN app, NFC, or Bluetooth keyless unlocking.

Method 1: HORWIN App

- Step1: Put on a safety helmet, HORWIN APP-My Vehicle-Unlock 
- Step2: Retract the side stand/center stand, then the instrument cluster will display “**READY**”
- Step3: Gently twist the throttle and enjoy your first ride.

Method 2: NFC

- Step1: Put on a safety helmet, Tap the NFC card included in the accessory kit on the sensing area for 2 seconds.
- Step2: Retract the side stand/center stand. The instrument cluster will display “**READY**”;
- Step3: Gently twist the throttle and enjoy your first ride.

Method 3: Bluetooth Keyless Unlocking

- Step1: Pair the vehicle with Bluetooth*refer to page 24, After successful pairing
- Step2: Go to "Safety & Settings" and enable the Passive Unlock switch to activate keyless unlocking.
- The Passive Unlock switch enables proximity wake-up, proximity unlocking, and automatic locking when leaving the vehicle.

Riding Training

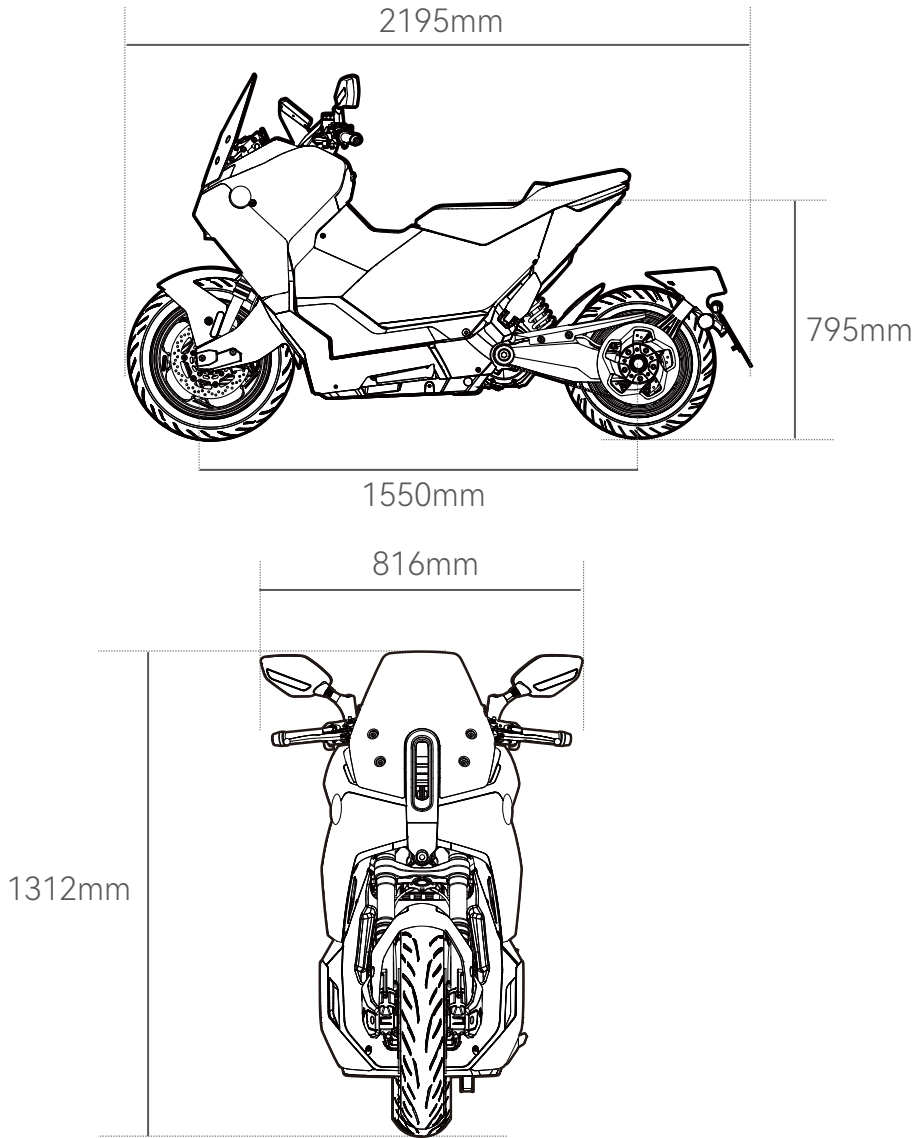
You need to improve your riding skills. Even if you have ridden other motorcycles before, you still need time to become familiar with the operating principles and riding controls of the SENMENTI ONE. Practice riding in a safe area until your skills are developed and you are familiar with the vehicle's dimensions and weight. We require all riders to complete a riding course certified by local authorities. New riders should complete basic training, while experienced riders can also benefit from advanced training courses.

Road Restrictions and Guidelines

Precautions

Overloading or improper loading may cause abnormal motorcycle operation, resulting in serious injury or death. Always follow the load limits and other loading information provided in this manual. The maximum load capacity of the SENMENTI ONE is 150 kg.

Specifications



SENMENTI ONE		HW35000DT			
Orange		Purple		Black	
0~100km/h	3.3s	Range	300km*Urban / 210km*Suburban		
Top Speed	200km/h (124 mph)	Peak Torque	894N·m		
DIMENSION					
Colour		Wheelbase	1550mm		
L*W*H	2195mm*816mm*1312mm	Ground Clearance	150mm		
Saddle Height	795mm	Weight(G.W)	285kg		
POWERTRAIN					
Motor	Center PMLSM	Voltage	400V		
*permanent-magnet liquid-cooled synchronous motor		Driven Type	Belt-Conveyer(GATES)		
Max Power	75kW(100.6hp)	Ride Mode	Standard,Sport,Rain,Custom,R		
Rated power	35 KW(46.9hp)	Charging Port	DC fast charge(CCS2)		
Battery Type	Lithium Batter	Charging time	30min(20%~80%)		
Battery Capacity	16.9kW/h	*Approx. 10 min for 100 km of range			
CHASSIS		SMART&FEATURES			
Brake System	FR. :Dual Four-piston/Disc Brake	Safety System	Electric Locks		
*ABS+eTCS by BOSCH	RR. :Two-piston/Disc Brake	APP/NFC/BT star			
Tire	120/80 R16 60H	Charger Ability	7.5W USB+Type A		
	160/60 R14 65H	18W USB+Type C			
Rim	MT 2.75*16	Instrument	7" TFT color display		
	MT 4.50*14	Handlebar Heating	●		
Front Shock Absorber	KYB Φ41mm	Saddle Heating	●		
Rear Shock	KYB Spring Shock Absorber	Front Windshield	●		
		Cruise Control	●		

*The range data is based on test results from HORWIN Laboratory. Actual range may vary depending on 41 factors such as load, ambient temperature, riding speed, and road conditions.

Warranty Registration Form

Date:		Model:	
VIN No.:			
Motor No.:			
Date of Purchase:			
User Name:			
User Address:			
User Contact Number:			

Note: This form shall be completed by the customer and shall be filed by the dealer.

After-Sales Service

Thank you for choosing the SENMENTI ONE electric motorcycle manufactured by HORWIN. To provide comprehensive service support for our customers, and in accordance with applicable laws, regulations, and relevant warranty requirements, HORWIN has established the following after-sales service policy based on the product characteristics.

Warranty Period Start Date Calculation

- The vehicle warranty is valid for 3 years or 60,000 km, whichever comes first. Detailed warranty terms for individual components shall be subject to the "Component Warranty Policy".
- The warranty start date shall be the date of purchase shown on the vehicle invoice or the date of vehicle activation and registration, whichever occurs first.
- Warranty periods for replaced components are not renewed. Any components replaced during the warranty period shall be covered only for the remaining period of the original warranty.

《Component Warranty Standard》
Refer to the table below

Parts Name	Warranty Standard	Warranty Exemption	Warranty Period
Powerful Battery System Assembly	For power batteries that are used after being fully charged within the specified operating environment—and provided they have not been subjected to external physical impact—warranty service shall be provided in the event of faults such as abnormal voltage, inability to charge, or capacity falling below 70%. (The warranty coverage does not reset upon replacement; the warranty period for a replacement battery shall be calculated based on the remaining duration of the original battery's warranty period.)	1. Self-disassembly of the battery pack resulting in damage to the internal cell connections.	60 months or 100,000 km whichever comes first
		2.Damage to the battery resulting from failure to adhere to storage, maintenance, and care requirements—for instance, leaving the vehicle unused for an extended period without timely recharging, thereby causing battery depletion and undervoltage.	
2-in-1 Electric Drive System Assembly	Faults such as abnormal motor noise, motor overheating protection, and motor stalling.	1. Damage to the motor's internal circuitry resulting from unauthorized disassembly	60 months or 100,000 km, whichever comes first.
		2. Motor damage caused by human factors	
Display Assembly	1. LCD instrument cluster: No display or incomplete display	Scratches or damage to the instrument cluster caused by human factors;	36 months or 60,000 km whichever comes first
	2. LCD instrument cluster: Inaccurate or erratic digital readings		
	3. Abnormal date display		
	4.Vehicle network communication failure		
GCU Assembly	1.Vehicle power or electronic control system failure caused by GCU malfunction.	1.Modification of internal structures or wiring harnesses	36 months or 60,000 km whichever comes first t
		2.No fault found after inspection	

Parts Name	Warranty Standard	Warranty Exemption	Warranty Period
DC-DC system assembly	1.Internal damage, or voltage regulation failure.	No fault after testing.	36 months or 60,000 km whichever comes first
	2. No DC output, or over-voltage.		
Large/Small Radiator Assembly, Liquid Cooling Control Module, Temperature Sensor, Tire Pressure Sensing Module	Failures resulting from performance malfunctions or quality issues attributable to the product.	Damage resulting from unauthorized modifications of the internal circuit or structure of the controller.	36 months or 60,000 km whichever comes first
Wiring harnesses, including the main harness, DC charging harness assembly, DCDC ground harness, extension cables, and others.	1. During proper use,problems like short circuit, open circuit, ablation and other problems,etc. that cannot be repaired occurs (caused by defects in the main cable).	1. Unauthorized modifications of the circuit or damage caused by human factors.	36 months or 60,000 km whichever comes first
	2. Circuit defects not caused by installation.	2. Tearing or abrasion in cable surface (not structural problem).	
LPDC (Low-Voltage Intelligent Power Distribution Unit), Digital Key Controller, EVCC (Charging Communication Controller – EU/US), Speaker, Horn, 2-in-1 USB Port	Performance failures or quality issues arising from the product's hardware that are unrepairable.	1. Damage caused by unauthorized repairs	36 months or 60,000 km whichever comes first
		2. Unauthorized modifications	
		3. Improper operation or usage	
		4. Damage caused by abnormal environmental conditions	

Parts Name	Warranty Standard	Warranty Exemption	Warranty Period
Headlight, Front/Rear/Left/Right Turn Signals, Taillight, Rear License Plate Light, Under-seat Storage Light, Headlight Panel Wiring Harness Assembly	Lighting fixture failure caused by product quality issues.	Damage to light fixtures caused by unauthorized circuit modifications	36 months or 60,000 km whichever comes first
Left/Right Switch Assembly , Side Stand Switch Assembly	1. Switch malfunction, or failure to properly engage or reset.	1. Lock pried open and damaged	36 months or 60,000 km whichever comes first
	2. Loose or damaged switch buttons resulting from manufacturing defects.	2. Lock mechanism damaged due to improper use	
	3. Lock mechanism failure rendering the device unusable.	3. Unauthorized modification of electrical circuitry	
ABS Braking System	1. Breakage or falling off due to material problems	1. Improper disassembly of the hydraulic disc brake upper and lower pump assemblies leads to oil leakage	36 months or 60,000 km whichever comes first Brake disc and brake pads and brake oil are not included
	2. Brake failure of hydraulic braking system caused by leakage of gas, air resistance, decreased pump pressure, or brake caliper seizing	2. Malfunction of hydraulic disc brake caused by lack of oil instead of damage	
		3. Worn-out of brake disc	
	3. Brake uninterrupted and cannot be repaired	4. Brake system damage caused by self-modification	

Parts Name	Warranty Standard	Warranty Exemption	Warranty Period
Front/Rear Frame, Front/Rear Shock Absorbers, Handlebar Assembly, Brackets, Upper Triple Clamp, Steering Column Assembly, Front/Rear Hubs, Rear Eccentric Hub Assembly, Side Stand	1. Loss weld, incomplete and missing welding of the weld joints.	1. Damage caused by human factors or improper use.	36 months or 60,000 km whichever comes first
	2. Cracks in key area, or frame fracture.	2.Unauthorized modifications of frame structure.	
	3. Failure to apply license plate due to the unclear VIN code.	3. Unauthorized modifications of body structure.	
	4.Performance failure or quality issues arising from product-related causes that cannot be repaired.		
Seat Cushion	Bursting or cracking caused by quality problem	Breakage and fracture of the cushion surface caused by human factors	36 months
Exterior Plastic Parts	If the area of peeling or crack that caused by the paint problem is more than 1 CM², the part can be replaced	Damage caused by human factors.	36 months
12V Auxiliary Power Supply	Malfunctions caused by product quality issues, including leakage, short circuits, open circuits, and reverse polarity.	Damage caused by human factors.	12 months

Parts Name	Warranty Standard	Warranty Exemption	Warranty Period
3kW Integrated Charge/Discharge Unit (Optional Accessory)	Performance failures or quality issues arising from the product's hardware that are unrepairable.	Damage caused by human factors.	12 months
Tire	Cracking, swelling or bursting	1. Normal wearing	6 months
		2. Damage caused by human factors	
		3. External damage	
Vulnerable parts	Brake pads, brake pad springs, brake fluid, cables, belts, bolts, nuts, washers, fuses, USB ports, unpainted plastic parts, decorative trim, NFC cards, rearview mirror glass, cable clips, and cable clamps (wear parts).		No warranty

Non-Warranty Conditions

- If the specified period and scope are exceeded, it shall be deemed to be out the warranty.
- The following items are not covered by warranty: light bulbs, brake pads, brake fluid, rearview mirrors, power sockets, cables, USB ports, polypropylene (PP) components, screws, nuts, decorative parts, fuses, chains, and other consumable parts.
- Damage or malfunction resulting from failure to perform proper maintenance in accordance with the vehicle maintenance manual (workshop manual).
- Normal maintenance services include but are not limited to: changing gear oil, checking tires, checking brakes, adjusting brakes, changing brake fluid, checking electrical systems, checking chain tension, adjusting chain tension, replacing chains, and checking battery packs.
- Advertising promotion, gift items, loudness, softness and hardness of touch, and other sensory and cognitive items.
- Damage caused by force majeure or external factors such as smoke, earth-quake, typhoon, flood, fire, lightning strike, chemical corrosion, etc.
- Self-modification, disassembly, or destruction of parts without repair at an authorized distributor, damage to other parts caused by the use of non-original parts, unauthorized modification of circuits and configurations.
- Damage caused by human factors such as collision, falling, over-speeding, overloading, unauthorized modifications, failure to use original parts, and failure to operate according to the instructions.
- There is no Warranty Registration Form or the vehicle information does not match the Warranty Registration Form.
- Failure to comply with battery storage, maintenance, maintenance requirements resulting in battery damage. If the vehicle is not used for a long time, it is not charged in time, resulting in battery loss and under-voltage.

Repair & Maintenance Records

In order to enhance your warranty experience, please be sure to repair and maintain your vehicle at our authorized dealers. And please record in the form below and stamp the dealer's seal.

Model:	VIN No.:	Motor No.:
1st Service	Dealer's stamp	
Date:		
Mileage:		
2nd Service	Dealer's stamp	
Date:		
Mileage:		
3rd Service	Dealer's stamp	
Date:		
Mileage:		
4th Service	Dealer's stamp	
Date:		
Mileage:		
5th Service	Dealer's stamp	
Date:		
Mileage:		

6th Service	Dealer's stamp
Date:	
Mileage:	
7th Service	Dealer's stamp
Date:	
Mileage:	
8th Service	Dealer's stamp
Date:	
Mileage:	
9th Service	Dealer's stamp
Date:	
Mileage:	
10th Service	Dealer's stamp
Date:	
Mileage:	
11st Service	Dealer's stamp
Date:	
Mileage:	
12nd Service	Dealer's stamp
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Mileage:	

13rd Service	Dealer's stamp
Date:	
Mileage:	
14th Service	Dealer's stamp
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15th Service	Dealer's stamp
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16th Service	Dealer's stamp
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17th Service	Dealer's stamp
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18th Service	Dealer's stamp
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19th Service	Dealer's stamp
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Disclaimer

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This manual has been compiled to include as many functions and instructions as possible.

However, due to continuous product improvement, design changes, and model updates, it may not fully reflect the product you have purchased. Please keep your HORWIN App and vehicle instrument system updated to the latest version, and refer to the latest electronic version of the manual available therein.