

USER MANUAL

PLEASE READ THE INSTRUCTIONS CAREFULLY BEFORE RIDING

VSETT10



TEMPERATURE CONTROL



NFC



SINGLE MOTOR



MECH DISC BRAKE SYSTEM

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READ THIS MANUAL BEFORE USING

IMPORTANT INFORMATION

WHY IS IT NECESSARY TO READ THIS MANUAL BEFORE OPERATING?

This manual was written to help you understand the proper use and maintenance of the VSETT line of Electric Scooter.

It is important to understand the functions and features of the new VSETT before operating it as it will allow you to enjoy the most of it from the first and every ride.

It is also important for you to note that the first trial of the VSETT should be in a remote area where obstacles are minimal to none.

The VSETT unit will require some adjustments and a break-in period for all moving parts to adjust themselves into the correct position.

BEFORE RIDING: Please ensure that the folding mechanism is firmly locked in place and the safety lock is engaged.



DISCLAIMER & WARNING

The product and its brand VSETT are not liable for any accidental damages related to the usage of this product.

WARNING!

The responsibility for VSETT maintenance is yours! Proper and frequent maintenance will reduce the risks of injuries.

- ALWAYS WEAR A HELMET WHEN RIDING
- ALWAYS FOLLOW LOCAL LAWS AND REGULATIONS
- NEVER RIDE THE SCOOTER IN POOR VISIBILITY
- DO NOT DO STUNTS, WHEELIES or JUMPS IF YOU DO NOT HAVE THE PROPER SAFETY GEARS.

VSETT10



- ELECTRONIC BRAKE + MECH DISC BRAKE SYSTEM
- MAX SPEED 55KM/H
- TURN SIGNAL



- NFC KEY LOCK
- 4.5 INCH LARGE SCREEN LCD
- ELECTRONIC HORN



- MAX RANGE SPORT MODE 135KM
- CONTROLLER 52 V (25A)
- BATTERY 52V 25Ah / 52V 24.5Ah (LG)



- FOLDING SWITCH



- 1000W MOTOR
- SPRING SHOCK ABSORPTION
- PNEUMATIC TYRE 10x3 INCH
- MECH DISC BRAKE SYSTEM



- MECH DISC BRAKE SYSTEM
- SPRING SHOCK ABSORPTION



| | |
|-------------------------|---|
| Model | VSETT 10 |
| Battery | 52V 25Ah / 52V 24.5Ah (LG) |
| Tire | 10×3 INCH |
| Brakes | FRONT AND REAR DISC BRAKE+ELECTRIC BRAKES (ZOOM HYDRAULIC BRAKE OPTIONAL) |
| Max Range(Single Motor) | 135KM |
| Max Speed | 50KMH |
| Weight | 36.5KG |
| Suspension | SPRING SHOCK ABSORPTION |
| Motor Power | 52V 1000 BRUSHLESS MOTORS |
| Controller | 52V (25A) |
| Max Load | 120KG |



Maximum load and speed may vary depending on the rider's weight, riding style and terrain.



INTELLIGENT TEMPERATURE CONTROL MANAGEMENT SYSTEM



The motor controller/s fitted to your VSETT electric scooter features to overload protection. The management system will enter a 20s protection cycle, if the controller temperature exceeds the safety threshold. Should you experience a loss of power due to overloading, please stop riding and allow the controller time of cool.



VSETT series electric scooter intelligent temperature control system

(A 165LB load was tested according to the summer climate)

| | | | |
|---|----------|---|-------|
| Model | VSETT 10 | | |
| Temperature protection (Current-limiting) (According to the local topography±5°C) | 90°C | Remove thermal protection (Current-limiting) | 85°C |
| Temperature protection (Cut power to the motor) (According to local climatic conditions±5s) | 110°C | Remove thermal protection (Cut power to the motor) | 105°C |

Speed Level
Battery Indicator



NFC card area

Speed (MPH)

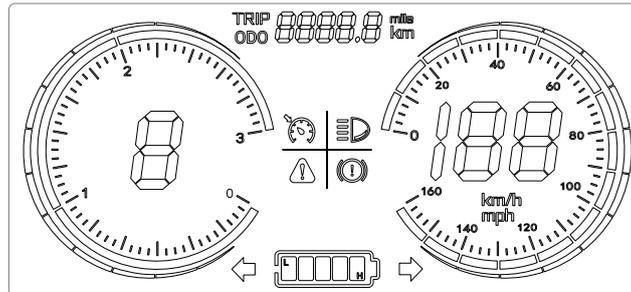
Basic operation:

1、 Function

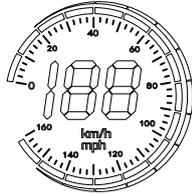
1. Displayed content

Speedometer / Voltage level / Odometer / Trip meter / Battery level / Cruise-control active light / Gear indicator / Fault warning light

2. All content on display(power on within 1 second)



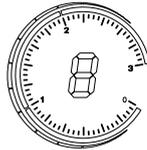
3.1 Speed display area



Unit: MPH, KM/H

The speed signal is taken from the Hall signal inside the motor. Sent to controller by controller (Time of single Hall period, unit: 1MS). The display calculate the true speed based on wheel diameter and signal data calculate the true speed (The motor Holzer also needs to set the number of magnetic steel)

3.2 Vehicle power gear adjustment,



0-3 digital display

3.3 vehicle status display area



Brake power off reminder;



The headlight turns on the prompt;



Constant speed cruise hint;



Communication fault prompt;

Display P-Codes(programming codes)

To access this menu, long-press  and . Use  button to scroll through P-codes,  and  to change parameterd

P01: Backlight brightness: The 1 level is the darkest, Level 3 brightest; Default: 3

P02: Mileage : unit, 0 : KM; 1 : MILE; Default : KM

P03: Voltage level: 24V, 36V, 48V, 52V, 60V, 72V, Default:52V

P04: Dormancy time: 0 means no dormancy; Other numbers are dormant time. The range is 1-60 minutes. Default:5

P05: Reserve

P06: Wheel diameter: The unit is inch. The accuracy is 0.1; Default:10.0

P07: Speed measuring magnetic steel number. The range is 0-255. Default:28

P08: Rate-limiting: The range is 0-100km/h. Default: 100

P09: Zero start\ no zero start setting; 0 means zero start. 1 means no Zero start. Default: 0

P10: Reserve

P11: EABS switch choose. The range is 1-5.0 means closing. 1 means weakest. 5 means strongest.

P12: Soft and hard start strength. The range is 1-5. The softest is 1. The hardest is 5. Default: 5

P13: Reserve

P14: Reserve

P15: Controller under-voltage

P16: ODO Zero setting: keep pressing  for 5 seconds, ODO will zero clearing.

P17: When it shows 0, it can not use cruise. When it shows 1, it can use cruise. Default:0

P18: Bind and unbind NFC CARDS. Long press  to build the binding, long press  to build the unbinding

P19: Reserve

P20: Communication protocol is defaults 4. It can not change.

2、 Introduction of buttons and interfaces



1. When it is shut down, long-press hold button continuously for 2s  to turn on the power. When it is powered on, It can change interface between the ODO、 TRIP、 VOL, by pressing  for short time.
2. When it is powered on, long-press hold button continuously for 2s  to turn off,press   to change gear.
3. Long-press  and  to enter P-code menu - refer to functions on page 8.
Enter the menu setting interface, press  or  to increase or decrease the value, after the modification is finished;Press  to switch to the next parameter and save the value of the previous parameter; After parameter modification, long press  +  again to exit the setting interface, or wait for 8 seconds for automatic exit and save parameters.

3、 Card binding instructions

1.The instrument is not bound to NFC card:

After starting up, the LCD displays the normal contents, At this time, the meter can directly enter the working state.

The diagram below:



2.How to bind NFC card:

CARDS are bound by factory default

Late setting: When using mobile phone or NFC functional card binding, refer to the following methods

Long press  for 5 seconds to display B 0. At this time, the NFC card is close to the card swiping area and B 1 is displayed, indicating that the card is tied successfully and the default is unlimited.

Press  for 5 seconds to display C 0. At this time, all NFC cards that have been unbound are displayed.

3. The instrument has been bound with NFC card: after starting up, the LCD displays card, the power voltage is not displayed in the card swiping area, and the swiping indicator flashes, indicating that the card needs to be swiped to start up. At this time, the accelerator does not work.

The diagram below:



Note: Due to the upgrade of the company's products, some of the displayed contents of the products you get may be different from the instructions, but it will not affect your normal use.

If the NFC cards are lost accidentally, you can try to contact the local agents. (each E-Scooter is equipped with 3 keys).



- 1.Power switch
- 2.Upshift button / Turn on the light
- 3.Downshift button
- 4.Horn
- 5.Handle folding mechanism
- 6.Turn signal

- 7.Set button +
- 8.Set button -

| | |
|---------------------------------|--|
| Power On/Off | Long-press the power button [1] for 2 seconds to turn on/off the scooter, then use NFC card to activate it.The scooter turns off automatically if not used for 90 seconds |
| Speed Control | Press the [2] or [3] button to cycle through the three different speed levels 1 to 3.Use the throttle to control the speed within each speed level. |
| Headlight | While power is on, Long-press(press and hold for 2s) and hold [2] button to turn on or off headlight. |
| Mileage & Other data | While stationary, and with the power on, Long-press(press and hold for 2s) and release th [1] button to cycle through the following data: ODO (lifetime mileage),TRIP mileage, VOLTAGE level and ERROR CODE. |

TURNING IT ON

Press the  for 3 seconds and wait to be prompted for the Token (Card).

Tap the Token (Card)  to the IR reader NFC

P-SETTING

Press and hold both  and  simultaneously for 3 seconds to access the P Setting interface.

CHANGING OF SPEED

Press the  once or the  to toggle between increasing between 1 to 3.

Function is to limit max limit, 3 being the max speed able to achieve.



HORN

BUTTON FOR TURN
SIGNAL LIGHTS (BLINKERS)

Press the



once to activate the horn. Button are able to be hold on or to press once.

Press the



button and the light flashes. Automatic shutdown after 12 seconds. Turn signals can only be on onese at a time. One side opens and the other side automatically closes

Folding handle bar

1

Turn the handle screw anti - clockwise to loose the mechanism



2

Once loosen, pull the screw catch away from each other



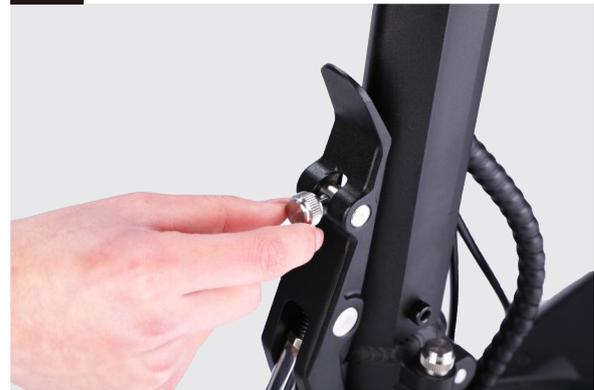
3

Simultaneously fold the handle bar down



4

Loosen the safety screw



5

Plate opening and folding buckle



6

Pull up safety pin



7

Simultaneously fold the handle bar down



8

Insert buckle



BATTERY

- Do not operate the scooter while charging
- Do not store the scooter over a long period of time with an almost empty battery.
- From time to time, discharge the battery by riding. Have the battery recharge again and make sure to not leave battery fully empty.

DISABLE CHARGING IN THE FOLLOWING CIRCUMSTANCES:

- Is broken
- Emits an unusual odour or colorless liquid.
- The bottom of the deck or it as a whole gets into excessive heating
- Leakage is present.

Avoid contacting with substances or meddling with a bloated battery. Keep the battery away from children, pets or direct heat. Exposure to the battery voltage may cause death or serious injury.

The use, storage or charging of the VSETT battery outside specified limits may result in the annulment of the warranty, battery damage and effective battery charging,



It is important to fully charge the battery before your first use of the scooter.

First Charge

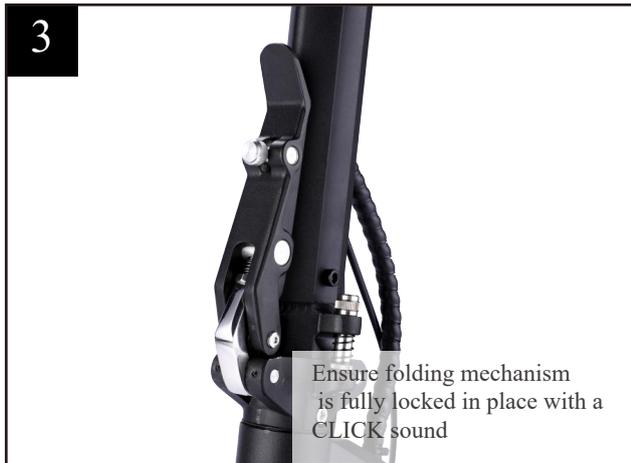
Your scooter's battery comes with these built-in features:

1. Balanced charging protection: During charging, the battery automatically balances the voltage among the internal cells to protect each cell.
 2. Over-charging protection: The battery stops charging automatically when full to protect against damage.
 3. Over-current protection: The battery automatically stops charging if the voltage is higher than prescribed voltage to protect the battery.
 4. Over-discharging protection: The battery automatically stops discharging when its voltage drops below Under voltage value to protect the battery.
 5. Short-circuit protection: the battery automatically stops output in the case of a short-circuit.
-

How to charge

1. Ensure that scooter is TURNED OFF. Connect external power charger to scooter.
2. Connect charger to electrical outlet, then turn on the power of electrical outlet.
3. Do not charge the batteries in temperatures below 5 °C or above 40 °C. The battery may stop the charging process.
4. Charging Light **RED** - Battery is charging.
Charging Light **Green** - Battery is fully charged.

PRE RIDE CHECKS





WARNING!

Certain countries or regions require safety devices or gear. It is your responsibility to know the state laws and follow them. However, we strongly recommend using safety equipment correctly before riding the scooter.

TIRE AIR PRESSURE: THE TIRE IS PRESSURIZED TO THE STANDARD VALUE ON THE TIRE

SAFETY GEAR

Helmet: Most common and serious injuries from riding are head injuries. This can be prevented by donning a helmet. You must wear a helmet when riding the VSETT. The helmet must be worn according to their instruction.

MECHANICAL SAFETY

Before using the VSETT:

- 1) Always visually inspect that all screws and nuts are tight and in place. If anything is amiss or missing and you are unsure, please bring it back to the authorized distributor or contact us via email.
- 2) Check that the tires and wheels are not showing signs of wear and tear; they are not in need of replacement. Always ensure that the brake mechanism is not touching the wheels and allows free spinning.
- 3) Always perform mechanical checks of brakes and other parts of the scooter that allows visibility, safety and functionality of the scooter.

Limited Warranty

BY USING THIS PRODUCT YOU AGREE TO THIS LIMITED WARRANTY. PLEASE READ THIS LIMITED WARRANTY CAREFULLY.

To benefit from the limited warranty, the customer is advised to read VSETT Warranty terms together with the “care and maintenance” sections provided in the user manual. This limited warranty applies to the extent permitted by law and unless restricted or prohibited by law.

Limited Warranty Details

1. VSETT warrants that VSETT scooter products (“Products” or “Product”), are free from defects in material and workmanship, according to the following terms and conditions:
2. This Limited Warranty extends to the original purchaser of the Product warranted under this warranty and to each transferee of the Product during the first _____ months beginning on (date) _____ as stated below (“Warranty Period”).

This Limited Warranty covers the Product and each of its following component parts (“Components”) only:

- a. Hub motor;
 - b. Battery packs (except if battery was short circuited or seals of the battery enclosure or cells were broken or were tempered or the battery was used in equipment other than its intended use);
 - c. Controller;
 - d. NFC Display;
 - e. Charger unit;
 - f. All other electrical wiring and components.
3. During the Warranty Period, VSETT or its authorized service centres will repair or replace, at VSETT’s option and without costs to the customer, any defective Components with new or factory rebuilt replacement items, and return the Products to the customer in working condition, provided that the terms and conditions of this Limited Warranty are met. All defective Products or Components that have been replaced shall become the properties of VSETT.
 4. Products and/or Components that have been repaired or replaced pursuant to the paragraph above will be covered by this Limited Warranty for the balance of the Warranty Period.
 5. This Limited Warranty will only be effective when presented together, to either VSETT or its authorised centres, with proof of date and place of purchase of Products such as the purchase receipt.

What this Limited Warranty does not cover:

1. Products used for commercial purpose(s) including but not limited to leasing/hiring, use in competitions etc;
2. Any logistical costs of returning the Product to VSETT or its authorised service centres for servicing or the cost of returning the Product to the customer after servicing;
3. Defects or damages resulting from use of the Product(s) other than its normal and customary manner as stated in the user manuals accompanying the Products;
4. Defects or damages from improper storage, exposure to moisture or dampness, modifications, connections, repairs (except as carried out by VSETT or its authorised centres), misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of VSETT, including damage caused by dropping, blown fuses, spills of food or liquid;
5. Defects or malfunctions of the product not notified by customer during the Warranty Period;
6. Products which have had their serial numbers removed or tampered with;
7. This Limited Warranty is in lieu of all other warranties, express or implied either in fact or by operations of law, statutory or otherwise, including, but not limited to any implied warranty of marketability or fitness for a particular use.

Disclaimer:

1. The customer understands the risk of serious injury or death in the operation of such products and shall agree to take the **necessary precautions** and exercise **good judgment** to avoid hazards and dangerous situations which may result in serious injury or death;
2. The customer shall agree to indemnify and hold harmless VSETT from all injuries or death arising from the operation of the product;
3. The use of safety and protective gear such as bicycle helmets is strongly encouraged. And so is the use of Good Judgement;
4. The customer is advised to take the following precautions;
 - a. Do not ride on wet ground or in heavy rain;
 - b. Take corners slowly and look out for pedestrians;
 - c. Avoid potholes, curbs and debris on the ground;
 - d. Keep tires pumped to the specified pressure;
 - e. Dismount in places with heavy human traffic and push the scooter manually;
 - f. Service the product every 3 months on regular usage, 6 months for non-frequent usage;
 - g. Do not use products on public roads and respect local road regulations.

How to request service under this Limited Warranty:

To obtain performance of VSETT to repair and / or replace the Product or its Components under this Limited Warranty, the customer must, during the Warranty Period:

1. Bring this Limited Warranty, proof of purchase and the Product to VSETT;
2. Provide VSETT with a written description of the problem;

The average repair time is 1 to 3 days, not including shipping time to and from our service centre.

This warranty does not cover the shipping costs associated with the transportation of the scooter to and from our service centre, and a fee will be charged for return shipping or pick up and delivery service.

What can the consumer do in case of a dispute with VSETT

The consumer and VSETT agree that in the event of a dispute arising from the material and workmanship of the Product; or from this Limited Warranty, parties will attempt to first resolve the matter by negotiating in good faith.

ERROR CODES

| Error Code | Fault | Diagnostic Step | Resolution |
|-------------------|----------------------|---|--|
| 00 | Normal Status | Normally ok; Turn off and on the scooter to see if the error persists | Normally ok |
| 02 | Brake | Check the brake lever on handlebar and see if brake springs back all the way | Give the brake lever a few hard presses to ensure that it is not stuck; If jammed, then unclog the source of the jam |
| | | Check the brake caliper to see if the brake line is springing back to original position | If the brake caliper is not springing back, spray some WD40 to make sure it springs back to original position |
| 06 | Battery Undervoltage | Check LCD setting P03 and P15; Give battery a full charge to see if the issue persists | P03 should be in accordance with the voltage specified in the user manual. P15 should be the specified voltage - 49V |
| 07 | Motor Fault | Unplug and plug the motor connector back in to see if the issue persists | If the problem is resolved, then make sure the connector is pushed in all the way. |
| | | If issue persists; check motor wire and connector pins to see if there are any issues | Either replace the motor or replace motor wire. |

ERROR CODES

| Error Code | Fault | Diagnostic Step | Resolution |
|-------------------|----------------------------------|---|--|
| 08 | Turnstile Fault | Check if back screw or magnet has come loose in the throttle/LCD | Tighten back screw or replace magnet in the throttle |
| 09 | Controller Fault | Replace controller | Replace controller |
| 10 | Communication Receiving Fault | Unplug and plug in LCD connector and see if issue persists ; IF issue persists , then wiggle LCD wire in different directions to see if problem persists . | Change of wiring hardness from LCD to controller might be needed if the issue persists |
| 11 | Communication Transmission Fault | Unplug and plug in controller connector and see if issue persists; IF issue persists, then wiggle the LCD wire in different directions to see if problem persists | Change of wiring hardness from LCD to controller might be needed if the issue persists |

Included in the box

| SERIAL NUMBER | ITEM | QUANTITY |
|---------------|------------------|----------|
| 1 | Charger | 1 |
| 2 | Combination tool | 1 |
| 3 | NFC card | 3 |
| 4 | Instruction book | 1 |

After-sales service

For any problem listed in following table,our distributor will provide perfect after-sales service within the scope of warranty.

| Part | Quality issue | Warranty period | Remarks |
|-----------------|--|-----------------|-------------|
| Motor | Seriously broken rubber wheel hub,faulty motor | 12 months | Free repair |
| Accelerator | Unable to use with normal conditions (except damage caused by impact) | 3 months | Free repair |
| Controller | Fault during normal use | 12 months | Free repair |
| Charger | Fault during normal use | 3 months | Free repair |
| Lithium battery | No output during normal use | 12 months | Free repair |
| Framework | Deformation or fracture during normal use | 6 months | Free repair |

Attentions for warranty

Faults caused by any of following causes are not within the scope of warranty:

1. Failed to maintain according to this user manual;
2. Damage caused by misuse, traffic accident or accidental collision;
3. Damage caused by riding on abnormal roads or accidental collision;
4. Please do not expose this product to blazing sun or outdoor for along time, as that will speed up the aging process of the product and cause malfunction.
5. Quick aging and malfunction of the product caused by dangerous play with the electric scooter,such as acrobatic play;
6. Damage to the vehicle caused by natural disaster or irresistible force;
7. Aesthetic Damage Not Covered - Water Damage Not Covered.

Note: Please refer to the our website for updated information about after-sales, replacement, payable and free warranty.

| | |
|----------------------------------|----------|
| Start date of warranty extension | (DDMMYY) |
| Start date of warranty extension | (DDMMYY) |
| Start date of warranty extension | (DDMMYY) |

User information:

Name: _____

Contact number: _____

Email: _____

Address: _____

Product information:

Mode: _____

Repair station: _____

Date of return: _____

Fault description: _____

Fault Cause: _____

Signature of the repairer: _____

NEW MODELS ARE COMING SOON

-  Web: www.vsett.com
-  Facebook: VSETT
-  Instagram: [vsett.escooters](https://www.instagram.com/vsett.escooters)
-  YouTube: VSETT
-  E-mail: sales@vsett-scooter.com

USER MANUAL



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