DUALTRON STORM

PERSONAL MOBILITY

User Manual

Company Introduction

Minimotors Co.LTD., is a company who manufactures and distributes personal mobility with a professional production system since 1999.

Minimotors Co.LTD., has been making the electric mobility brand < DUALTRON > to meet the world's people with the aim of making more innovative,more sensuous,and more convenient personal mobility since 1999 and making products that are loved by people in the world. Minimotors Co.LTD., is doing its best to become the world's best electric mobility company.

MINIMOTORS Co.,Ltd. Since 1999

Brand Introduction

"DUALTRON" brand is a worldwide known electric scooter brand name that Minimotors Co.LTD., designed.

"DUALTRON" is a breakthrough product that combines the world's first dual drive system and the new rubber suspension technology (patent pending).It's a proud Korean luxury brand that has won the world's electric scooter market exporting to more than 30 countries.

DUALTRON®
The dream of electric technology

Please read the user manual carefully.

Do not use the product until you understand its functions.
Do not rent the product to anyone who can't operate the product.

*For the first time, the user should use it with a slow speed for safety.

Dualtron Storm user manual contents

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Before Reading Manual

This manual contains important information to help you to use your product more safely. For safe use, it is marked as 'Danger', 'Caution' and 'Warning' depending on the degree of danger and the meaning is as below.

Danger: Indicates a hazardous situation that could be a result of serious injury.

Warning: Indicates a potentially hazardous situation that could be a result in light injury.

Caution: Indicates a potentially hazardous situation that could be a result in serious injury.

Please read this manual carefully
before using this product

1) General safety guidelines and restrictions

* Even if the it is within the warranty period, you may be liable for any accident caused by any of the following causes.

1. Be careful of water !

This product and components are not waterproof. Don't let the water get into the product and components.

*Never use it, if the road is wet due to the rain, snow, hailstone.

*If you wash or spread water to electric devices, it can result in malfunction or fire.

2. Beware of folding and spinning parts!

If parts of the body, as a finger or hair, get caught in the spinning or folding parts of the product, this may lead to severe injuries. Please be careful.

3. No acrobatics

Stunts and jumps such as jumping and dropping are prohibited as they can cause a great impact on the product and can cause of malfunction and accidents.

4. No companion boarding

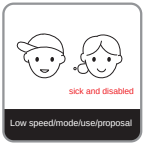
This product is intended for one adult only, so children,infants, or two people are prohibited from boarding.

5. Don't tune by yourself

Do not open or tune the electric parts (battery, controller or motor system.

6. No companion boarding

Unlicensed, driving after drinking, loading cargo on the scooter is prohibited. (More than bike or bicycle license is required) Please comply with the Road Traffic.Act and related laws and regulations according to the place of use.



7. Beginners and seniors are encouraged to use at low speed

Beginners who are not accustomed to use the product, seniors and others should avoid high speed mode driving and recommend low speed driving. In addition, please use after practice how to ride safely in a wide place.

8. Do not sudden brake with front brake

If there is a risk of overturning, sudden deceleration should be done safely. Do not apply any unusual behaviors or artificial forces, such as stopping with your feet.

9. Do not accelerate downhill

Slow down at downhill. When reducing the speed, to prevent brake overheat, use the brakes properly to reduce the heat on the disk with proper brake use.

10. Do not drive on steep slopes

Acceptable gradeabilityis different for each product. Excessive hill roads exceeding the specification may cause damage to the product(parts) due to temperature cut, overcurrent or low voltage cut, which may cause the product to malfunction.

11. Safety warning when lifting t he product

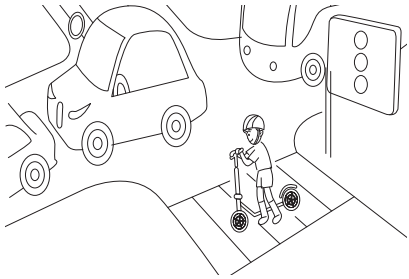
If the product is lifted by holding only the handle, there is a possibility that the product may be damaged due to deformation of the folding part due to load or movement of the product. When lifti ng the product, be sure to hold the product's body (footrest) with one hand and hold the handle with the other hand so that you do not get hurt in your back or knees.

12. Be sure to wear safety equipment

For the safety of passengers, be sure to wear a full face helmet and the other protective gear(knee, elbow, hand, upper body) and do not wear shoes such as slippers, high heels interfere with driving.

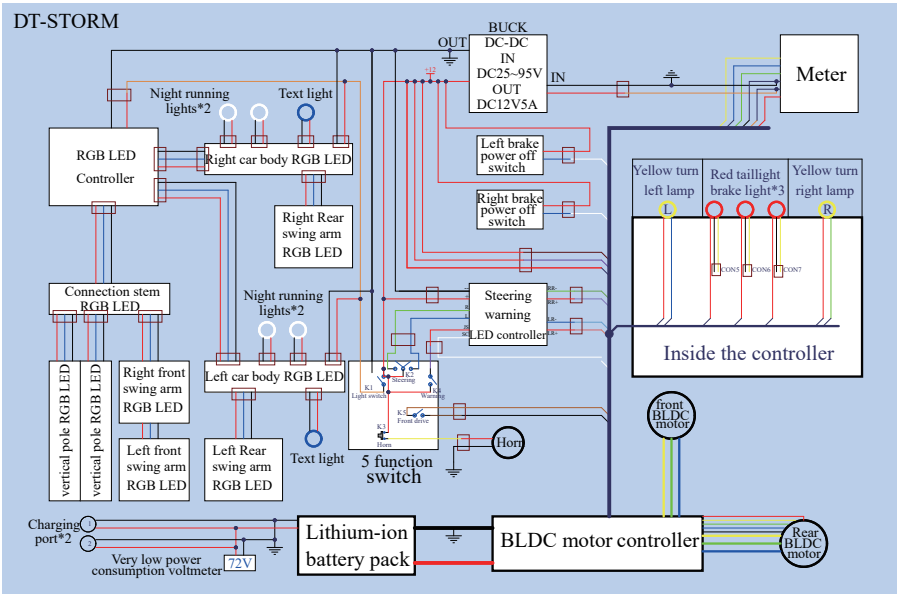
2) Precaution before driving

1. Night driving should be avoided in any case, be sure to wear helmets and other guards (knees, elbows, hands, upper body, etc.) and drive safely.
2. Select the mode that suits you and drive. In order to cope with the sudden situation, exercise to slow down tohold the brake at all times.
3. When turning left / right, slow down to avoid danger of overturning or slipping., And then slowly turn safely.
4. To go to backward, it is safe if you getting off from the product after stopping before moving.
5. It is prohibited to use in a slippery place, a crowded place, a steep slope, roads with a risk of accident, uneven road.
6. When crossing a pedestrian crossing, get off from the product for pedestrian safety.
7. Do not drive in a threat any other means of transport, such as animals, pedestrians, bicycles, motorcycles, cars, etc.
8. If you pass the speed bumps and obstacles, be sure to slow down.
9. When decelerating or braking, do not stop with using foot, but stop with using brake appropriately.
10. Be careful that there is a risk of burns due to heat from motor and brake (especially disk rotor) after driving.
11. It is prohibited to drive with all the way by holding the handle with one hand.
12. Do not ride or drive when the kick stand is down.



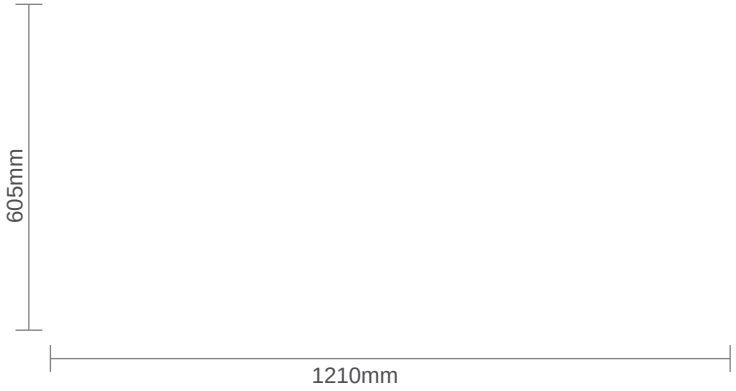
Product structure

Electric wiring diagram

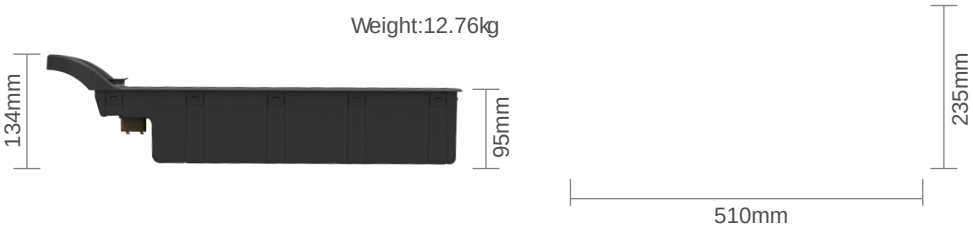


Product size

* Errors may occur depending on the measurement method.

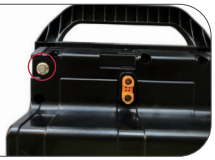


Easy Carrin g Battery



Voltmet er Switch

This switch controls the battery voltmeter. Turns on,voltmeter displays the current voltage. Turns off, voltmeter is off.
* The switch isn't for discharging.



Energy-saving voltmet er

The voltmeter consumes 3 mAh and can stand byfor 250 days. The voltage can be checked while charging.

Charging ports

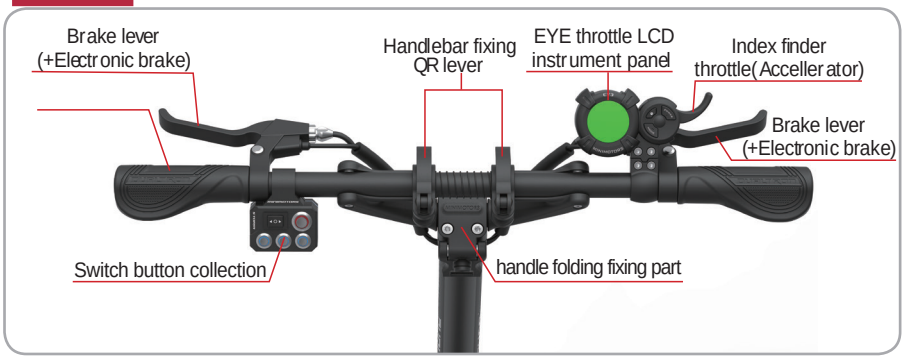
Two charging ports designed on easycarring battery. The max charging amper is 15a. Its available for two fast chargers work at the same time.

Battery lock

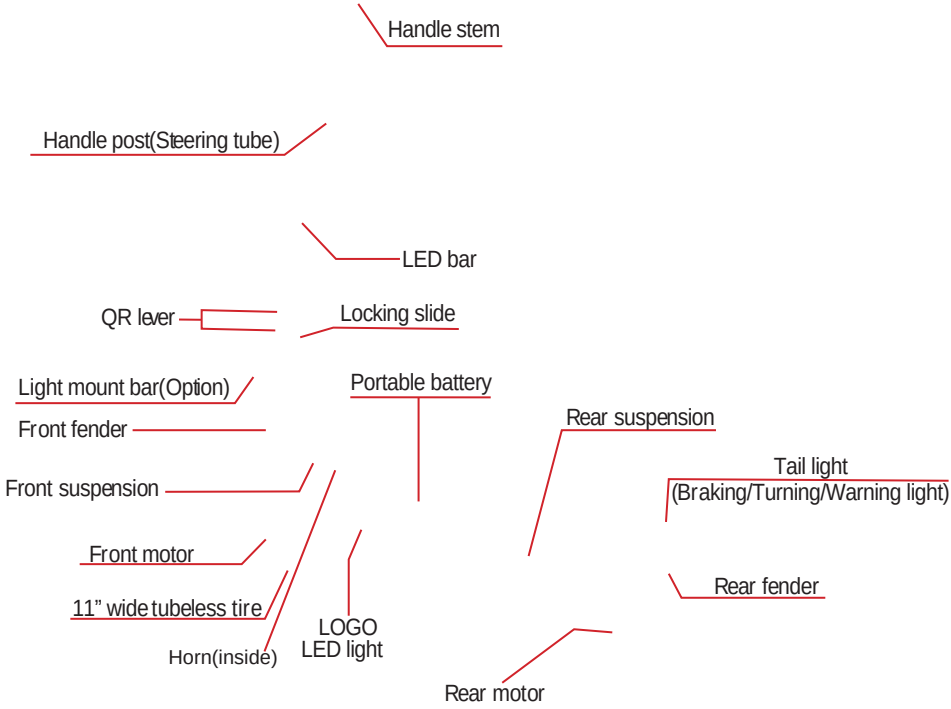
A mechanical lock is provided to lock the battery.
*Please note that the key is locked in place, otherwise it will not be flat when you step on it.

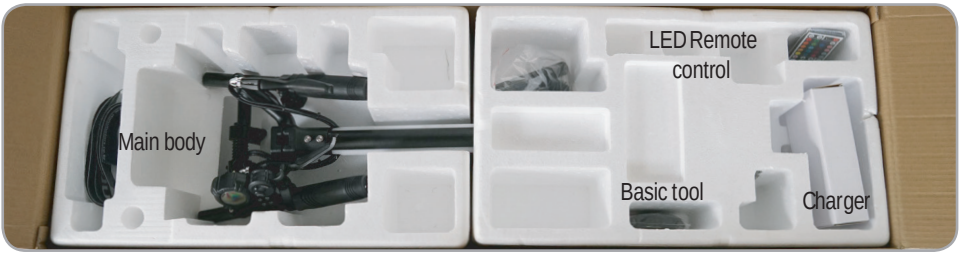
Name of each part

Handle



Body frame





Checking the components inside of the box

Top : Default battery charger(1.75A), Default tool, User manual, Remote control
Bottom : Body(Lithum battery included)

Ejecting the product

Caution

Do not hold the handlebar only when lifting the product from the box.
Please be careful that the fixing slide of the folding part may be damaged, and a safety accident such as a part of the body may be caught.
Therefore, when lifting the product, it is necessary to raise the handle bar first, and then slowly lift the body (footrest) of the product with both hands and do not damage the folding part

Make a note of the serial number.

The serial number can be used to check information such as date of purchase, warranty period, etc., and product information can be checked even if the product is lost or stolen. (May vary depending on branch office situation.)

Assembling of the instrument panel, brake

-Locate the instrument panel and tighten the fixing bolts.

-Adjust the position of the brake and tighten the fixing bolts with a 5mm hexagon wrench.

1) Productun foldin g

1. Raise the handle post(Steering tube)

Release the QR lever, raise the locking slide upwards, raise the handle post, then lower the locking slide downward.

3. Handlebar un foldin g

Loosen the QR lever, pull the locking slide inward and raise the handlebar, then close the QR lever and tighten the set screw.

2. Locking the folding parts

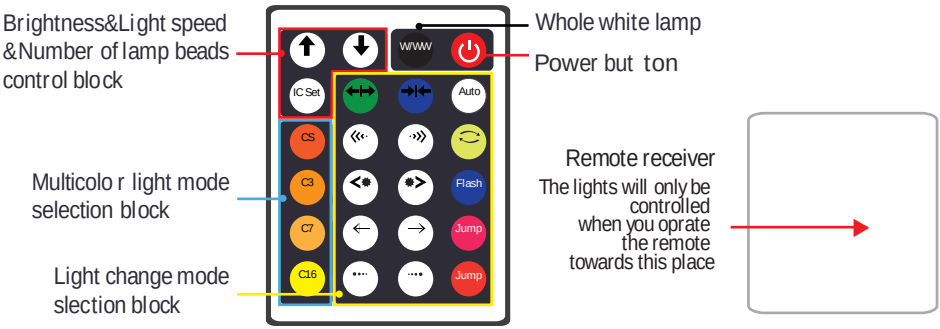
Tighten the finishing screw properly to lock the QR lever so that the locking slide is firmly fixed in any direction, and check for looseness during use.

4.Locking the handle

Place the locking slide up to the safety line and lock it so that it is firmly fixed with the QR lever. Always check for looseness during use.

2) Remote control functions and settings

The LED remote control is infrared.Please aim at the bottom of the right LED bar.



Tip

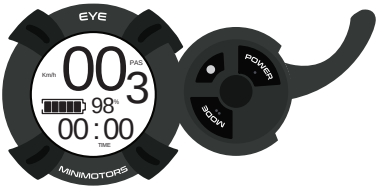
Brightness&Light speed&Number of lamp beads control block :

When single color light or whole white light is on,↑ brighter/↓ darker; when the multicolor light is on,↑ the ligh runs faster/↓ the light runs slower. When you press"IC Set" button, you can choose how many lamp beads wor Press "IC Set" button again to end the setting.

Multicolor light mode selection block:

"C3", 3 colors of light shine together;"C7", 7 colors of light shine together;"C16", 16 colors of light shine together "CS", single color light shines.

2) How to start



Step1. Turning on the instrument panel

When turning on the product, you can start driving by turning on the power of the LCD panel. When driving is finished, turn off the LCD panel.

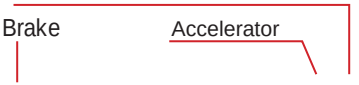
* The power of the instrument panel will turn off automatically after a few minutes of inactivity. At this time, the LED lamp is also turned off, so turn it off with the LED lamp button when you turn it on again.

Step2. Setting proper parameters

Press to choose the right gear. You also can set the start mode, cruise mode, electronic brake, and ABS function.

Tip

One button turns on/off all lights on the Storm.



Step3. Stance for driving

After tilting the kickstand, find a stable position on the footrest and then hold the handle grip comfortably.

Step4. Acceleration and deceleration

Acceleration can be performed by using the throttle of the instrument panel while driving, and the deceleration or stop can be performed by holding the brakes on the handle.

Caution

Before driving, be sure to check the folding part, the handle part, the part where the main fixing part of the product is fastened well. And check the position of the fixing slide, the QR lever locking status and thefolding part fixing status.

Throttle malfunction caution

Regardless of whether the throttle is operated or not, the motor sensor may continue to operate, causing malfunctions such as sudden acceleration. In this case, holding the brake lever to cancel the operation. This phenomenon may be caused by corrosion of the throttling, immersion of the throttle, disconnection of the magnet, broken off levers, and breakage of the spring. Do not bouncethe throttle lever strongly.