

**NILOX**  
SPORT TECHNOLOGY

**DOC**  
skate

**DOC+**  
skate

Thanks for choosing DOC SKATE.

The electronic user manual can be downloaded from the Nilox website. Enter in the search field the code of your DOC SKATE.

This product and the manual itself are subject to improvements and updates. We therefore recommend that you download the latest online version from the website.

## TECHNICAL SUPPORT

This product is warranted in accordance with current legislation; please contact your dealer if you require technical assistance and / or warranty service.

## INSTRUCTIONS FOR THE ENVIRONMENT



This product may contain substances that can be harmful to the environment and to human health, if not disposed of properly. We therefore provide the following information in order to prevent the release of such substances and to improve the use of natural resources. Electrical and electronic products should not be disposed of in normal household waste, but should be properly collected in order to be processed correctly. The symbol of the crossed bin shown on the product and in this page is to remind you of the need to properly dispose of the product at the end of its life. In this way, we can prevent a non-specific treatment of the substances contained in these products, or an improper use of parts of them leading to harmful consequences for the environment and human health. Moreover, you can contribute to the recovery, recycling and reuse of many of the materials that make up these products. This is why manufacturers and distributors of electrical and electronic systems organize proper collection and disposal of the equipment themselves. At the end of the product's lifespan, please contact your dealer for instructions regarding disposal. When purchasing this product your distributor will inform you of the possibility of replacing your old device with a new one, on condition that the type of product and its functions are the same or, if the dimensions do not exceed 25 cm, EEE (Electrical and Electronic Equipment) they can be returned without any equivalent product purchase obligation. Disposal of the product in any other way will be liable to the penalties established by the laws in force in the country where the product is disposed of. Moreover, we suggest adopting additional environmentally friendly measures: recycling the inner and outer packaging and disposing of any used batteries correctly. With your help, we can reduce the amount of natural resources used in the manufacturing of electrical and electronic equipment, minimize use of landfills for product disposal and improve quality of life by preventing the release into the environment of potentially dangerous substances.

## BATTERY DISPOSAL



The product contains a battery, which must be disposed of separately from general household waste. Throw the battery in the appropriate containers. Collection and recycling of batteries helps protect the environment and preserve material resources, through the recovery of valuable materials. The battery in this product might not be directly removable. If this is the case, instructions for its removal by qualified personnel can be found online at: <ftp://ftp.hellatron.it> (username: disposal@hellatron - password: hellatron).

For your own safety, do not attempt to remove the battery. Incorrect removal of the battery could damage the battery and device, cause accidents and/or make the device unsafe.

We shall not be held liable for any losses or damage caused by failure to comply with these warnings and precautions.

The device and accessories shown in this manual could vary according to the country where the products are distributed.

## WARRANTY VALIDITY

- One year if the product is purchased by a natural or legal person who uses it in business as an entrepreneur, sales representative, craftsman or professional or his/her intermediary.
- Two years if the product is purchased by a consumer or user (the natural person who does not use it in business as an entrepreneur, sales representative, craftsman or professional).
- Six months on the battery, regardless of the occupation of the product purchaser.
- The warranty covers factory or material defects.
- Product support and warranty: visit [www.nilox.com](http://www.nilox.com) to learn more.

## WARRANTY RESTRICTIONS

The warranty is null and void in the following cases:

- No proof of purchase (invoice or receipt).
- Tampering or alteration of parts.
- Other defects due to: inappropriate use, unauthorized changes, operations or storage not in accordance with technical product specifications; incorrect maintenance; defects due to use of other than that supplied and all elements not designed to be used with the product; technical work performed by unauthorized personnel.

The above refers to consumer goods warranty principles pursuant to Directive 1999/44/EC.

## BRIEF DECLARATION OF CONFORMITY



This equipment has been comply to directive 2014/53/EC of the European Parliament and the European Commission, referring to radio equipment and telecommunications and their mutual recognition. The complete declaration of conformity is available on-line to the following link: <ftp://ftp.hellatron.it> (user name: [declaration@hellatron](mailto:declaration@hellatron) –

password: hellatron). This equipment may be used in all European Union countries and in all countries applying Directive 2014/53/EC, without restriction, with the exception of the following countries:

Italy (IT): this peripheral complies with the National Radio Interface and meets Frequency Assignment requirements. The use of this equipment outside areas where the owner operates requires general authorization.

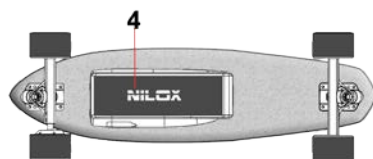
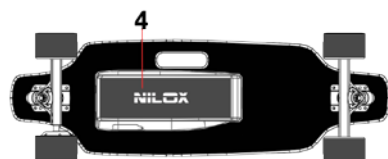
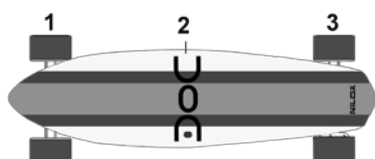
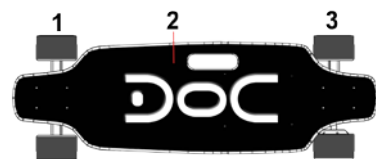
Norway (NO): equipment not to be used in a geographical area within a radius of 20 km from the centre of Ny Alesund

## PRECAUTIONS FOR USE

**TO GUARANTEE YOUR AND OTHERS' SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY. RECKLESS VEHICLE USE CAN BE HAZARDOUS. LOSS OF CONTROL, COLLISION OR FALLING COULD CAUSE INJURY, INCLUDING SERIOUS INJURY, TO THE USER AND/OR OTHER PEOPLE. TO REDUCE THESE HAZARDS, PLEASE READ AND FOLLOW ALL THE INSTRUCTIONS AND WARNINGS CONTAINED IN THE USER MANUAL.**

- **DOC PRO IS NOT A TOY.**
- Check the self-blocking nuts and screws are correctly fixed - if they loosen they could cause the product to be less effective.
- Users are held responsible for checking in advance what safety rules apply in the country where they intend to use the DOC SKATE. DOC SKATE use may be prohibited in public areas or in areas subject to traffic regulations.
- Avoid use on gravel, sand, grass, slippery or wet surfaces. DOC SKATE was designed to be used on smooth and dry surfaces.
- Never drive near cliffs or precipices. DOC SKATE was not designed to be driven in these settings/terrains. The retailer, distributor, importer and manufacturer cannot be held liable for driver injuries or DOC SKATE and/or third party damages caused by this type of conduct.
- Never drive DOC SKATE with several people on the board, this could cause you to lose control of the vehicle.
- Never let unattended children near DOC SKATE: this could be a hazard.
- Do not store the batteries near heat sources, they could explode.
- Do not leave the charger in damp or wet places and do not use it if damaged. Routinely check the cable, plug and external casing. If damaged, do not use it until repaired.
- Never use DOC SKATE if not in perfect conditions.
- Never use DOC SKATE if you are not in perfect psycho-physical conditions. People who suffer from physical or mental disabilities should not, or should be prevented from using DOC SKATE.
- DOC SKATE uses electricity and requires a transformer.
- Warning: electrical shock risks may arise using the transformer.
- We highly discourage use by anyone who cannot comfortably stand on it.
- Always learn and observe local laws and regulations applicable where the DOC SKATE is used.
- Always keep away from car and engine powered vehicle traffic and only use DOC SKATE where permitted and cautiously.
- Wet, slippery, cracked, irregular or rough surfaces can reduce traction and increase the risk of accidents.
- Be careful of potential obstacles that could get caught in the wheels or force you to suddenly swerve or lose control.
- Do not drive in the rain or when the outdoor temperature risks freezing surfaces.
- Never submerge DOC SKATE in water since electrical components could be damaged by water or generate hazardous conditions.
- Regularly lubricate the ball bearings of the wheels with the exception of the drive wheel.
- Any sharp edges or splinters in the board caused by use should be removed using sandpaper.

## DOC SKATE PARTS AND FRAME

SKATE

- 1) Front swivelling wheels
- 2) Board
- 3) Rear wheels, one drive wheel
- 4) Battery

- 5) Ignition key
- 6) Battery LED.
- 7) Power inlet

REMOTE CONTROL

DOC SKATE is controlled entirely through a remote control.



- 1) Battery status led
- 2 ) On/Off
- 3) Binding button
- 4) Forward/back button
- 5) Remote control-skate binding status signal

- 6) Accelerator/Brake
- 7) Speed changer
- 8) USB port for charging

USING DOC SKATE

DOC SKATE is a self-balancing electric skateboard.

Easy to use and entertaining, but most importantly it is environmentally friendly.

WORKING PRINCIPLE

DOC SKATE uses advanced technology to maintain balance.

Thanks to a gyroscope, an accelerometer and an algorithm for their combined use, DOC SKATE offers an impression of "floating" on the surface.

Through the PID traction control, the drive applied to the one rear wheel is easily transmitted and distributed to the 4 wheels of DOC SKATE.

The maximum speed DOC SKATE can reach is 20 km/h. Its gyroscope and accelerometer allow easy balancing, suitable even for less experienced users.

**WHEN GOING ROUND CURVES SLOW DOWN CONSIDERABLY TO AVOID BEING THROWN OFF THE BOARD BY CENTRIFUGAL FORCE.**

FUNCTION MODE**POWER ON / OFF**

When it is off, press the PWR (5) button to switch it on. The battery status signal will light up and a sound signal will be emitted.

The procedure for switching it off is of course identical. In this case, as well a sound signal will confirm it is switching off.

DOC SKATE works in two modes:

- Slow Mode
- Speed Mode

### **SLOW MODE AND SPEED MODE**

Switch on DOC SKATE and the remote control. The selector on the side of the remote control (7) allows you to change easily from Slow to Speed mode.

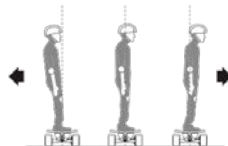
#### FIRST STEPS

Switch on DOC SKATE and the remote control.

Decide which mode you want (Slow or Speed).

Put one foot on and check you are properly balanced on the SKATE, then stand with both feet. Start the SKATE using the control stick.

- DOC SKATE is a lot more sensitive in Speed mode.
- Move the control stick gradually.
- Always keeps your legs apart on the board.
- Try to keep your body's barycentre as low as possible.
- Bend forwards in the acceleration phase.
- Bend backwards when braking.
- Steering with DOC SKATE is like steering with a traditional skateboard.



#### SPEED LIMITS

- Slow:

The top speed for DOC SKATE in Slow mode is 10 Km/h.

When this limit is reached, the speed will be constant.

- Speed:

The top speed for DOC SKATE in Speed mode is 20 Km/h. In this case too, when this limit is reached the speed will be constant.

### **SLOWING AND BRAKING**

When the command stick is released, it automatically returns to neutral position and the drive wheel will no longer have any drive - it will move by inertia.

If the stick is moved into the reverse position, the wheel will block immediately

**ATTENTION: THE BRAKING EFFECT ONLY ACTS ON THE DRIVE WHEEL.**

**BEAR THIS IN MIND DURING USE.**

#### FEASIBLE DISTANCE

The maximum distance DOC SKATE can cover depends on a number of factors:

- Topography: the feasible distance on smooth, flat roads increases, whereas it decreases if moving uphill.
- Weight: the user's weight will influence the feasible distance.
- Temperature of use: cold temperatures decrease the battery's efficiency.

- Maintenance: if DOC SKATE is charged correctly the duration of the battery will increase considerably.
- Speed and driving style: driving at a moderate, constant speed increases the feasible distance. Stopping, starting, accelerating and decelerating frequently decrease duration.

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## BLUETOOTH FUNCTION (**ONLY FOR THE DOC+SKATE MODEL**)

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The DOC+ SKATE has Bluetooth fitted to play music through the built-in speaker and to let you interact using Android and IOS Apps to take full advantage of all the functions on your DOC+ SKATE.

For further information about the use of Bluetooth and the App, download and read the Nilox on-line manual from the Nilox website.

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## BATTERY

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### CHARGE LEVEL

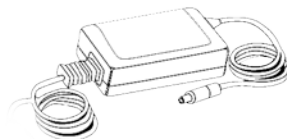
DOC SKATE will emit a sound signal when the battery's charge is low.

In that case, you should switch off your DOC SKATE.

A battery with low charge level causes incorrect driving, with the risk of damaging the drive wheel, shortening the battery's life and, most importantly, there is the risk of falling.

### BATTERY CHARGING

To charge the battery, only use the charger supplied with DOC SKATE.



Remove the cover cap and insert the plug.

Connect the charger to the electrical mains

Stop charging when the LED turns green and close the power port.

- RED: charging
- GREEN: charge cycle completed

### BATTERY MANAGEMENT AND CHARGE

- Charge time: approx. 150-210 minutes.
- Make sure DOC SKATE is OFF when charging.
- Check the entry connector is not dirty or wet.
- Insert the power cord in the DOC SKATE power port and insert the other end in an electrical socket.
- Only use the certified DOC SKATE charger.



- Do not deform, alter or remove the battery.
- Do not charge or leave the battery near heat sources.
- Avoid connecting the + and - poles with metallic objects.
- Avoid subjecting the battery to violent hits such as throws or falls.
- Charge the battery at room temperature (5-25°C).
- Do not charge the battery in very humid areas.
- Do not use the charger if the cables or connectors are damaged.
- Please charge and store the battery in compliance with local laws and regulations. If not, the battery may be damaged.

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## WARNINGS FOR USE AND SAFETY

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In order to reduce any type of risk, we recommend you carefully heed the following warnings.

Use DOC SKATE sensibly and responsibly.

DOC SKATE is a hi-tech transport vehicle, but its incorrect and inappropriate use can cause injuries.

- Always wear shoes, a helmet and appropriate safety equipment such as knee pads, elbow pads and wrist bands. Using a firmly buckled skate helmet that provides cranial protection is recommended.
- Do not use without proper training; please read the manual before use. Otherwise, you could lose control of the vehicle and fall.
- Use by minors under 16 years of age is prohibited. Adult supervision is required for use by minors under 16.
- Pregnant women and people with disabilities should not use this vehicle.
- Do not use DOC SKATE under the influence of alcohol, drugs or other substances that could alter the user's reflexes.
- Do not transport objects during use.
- Pay attention to surrounding objects when driving. Keeping a good view of the space used is essential to maintaining control.
- When driving, make sure that both feet are correctly placed on the board.
- We recommend wearing comfortable clothes during use.
- DOC SKATE was designed to transport a single individual. Use by several individuals simultaneously is prohibited.
- We recommend you do not suddenly or abruptly accelerate or stop the vehicle; these behaviours could cause you to lose control.
- Check DOC SKATE before use.
- Perform maintenance after use.
- Do not use in dark or dimly lit areas.
- Make sure driving speed always permits safe stopping at any time and in any situation.
- We recommend you maintain a suitable safety distance from other vehicles when driving.
- Use with ice or snow, as well as on rocks, branches or other types of vegetation or with other objects on the ground that could jeopardise appropriate vehicle control is prohibited.

- Use in flammable environments is strictly prohibited.
- Do not climb on or off at high speed, on terrains that are uneven or with very steep slopes.
- Do not perform tricks, jumps or other hazardous manoeuvres.
- Do not rest any object on the board except your feet.
- Do not keep fingers near moving parts to avoid accidents.
- Do not place metal or sharp objects on the board.
- Do not use thinners or solvents to clean skateboard parts.
- Do not clean DOC SKATE with a pressure cleaning or by submerging it in water; use a damp cloth to clean plastic parts.
- Do not puncture or remove any DOC SKATE plastic part.
- Jumping on DOC SKATE could be dangerous.
- Use in areas that allow to increase skill with the vehicle, not on paving or roads where users of skate boards or other people have had severe accidents.
- Learn everything slowly, including new tricks. When you lose your balance do not wait until you fall - get off and start again. Start on gentle slopes. Next, move to slopes where the speed allows you to get off the board without falling.
- The most serious injury resulting from skate board use are bone fractures, so first learn to fall (rolling if possible) without a skate board.
- Beginners with skate boards should try with a friend or parent. The majority of severe accidents occur in the first month of use.
- Before getting off DOC SKATE check where you may end up because you may hit or injure people nearby.
- Join the local club and learn more. Prove you are a good user of the vehicle and pay attention to yourself and to other people.
- **MAKE SURE THE BATTERY IS FULLY CHARGED BEFORE USE.**
- **DOC SKATE IS EQUIPPED WITH ELECTRONIC COMPONENTS UNDER ITS BOARD. PLEASE FOLLOW THE INSTRUCTIONS BELOW TO AVOID DAMAGING THEM.**

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## USE AND TRAFFIC RULES

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**IN SOME COUNTRIES DOC SKATE MUST BE USED ON PRIVATE GROUNDS ONLY WHERE NORMAL ROAD SAFETY RULES DO NOT APPLY.**

**IN PARTICULAR, IN SOME COUNTRIES, NATIONS OR CITIES AND TOWNS, BOARDS AND OTHER POWERED SPORTS VEHICLES (SKATES, HOVERBOARDS, SCOOTERS, ETC.) CANNOT BE USED ON ROADS AND PAVEMENTS.**

**USERS ARE RESPONSIBLE FOR CHECKING THE SAFETY REGULATIONS APPLICABLE IN THE COUNTRY WHERE THEY INTEND TO USE THE DOC SKATE BEFORE USING IT.**

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## DOC SKATE MAINTENANCE AND MANAGEMENT

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### CLEANING

- Always close the power port before cleaning.
- Always disconnect DOC SKATE from the charger before cleaning it.
- Do not use thinners or other solvents to clean since they could damage surfaces.
- Use a damp cloth to clean plastic parts.
- Do not wash DOC SKATE with running water.
- To remove mud or dirt from underneath the vehicle use a plastic brush.

### BATTERY

- Turn off DOC SKATE before charging it. Connect it to a power socket using the supplied cord and charger.
- The charger LED indicates the battery/charge level.
- When the battery is fully charged, the LED turns green, so disconnect DOC SKATE from the charger.
- Charging for too long (>4 hours) could damage the battery, reducing its duration.
- To extend the battery's life, store DOC SKATE when it is fully charged.
- Store in a dark place at a temperature between 5-25°C.
- If not used for a long period of time, charge the battery once a month.
- Battery life depends on various factors such as weather, storage and use.
- Do not use the battery in the following cases:  
     abnormal smells and/or excessive heat.  
     Liquid leaks.
- Do not touch any substance leaking from the battery.
- Do not allow children or animals to touch the battery.
- DOC SKATE cannot be used when charging.
- Batteries contain hazardous substances. Do not open the battery and do not insert anything inside it.
- Only use the supplied battery charger.
- If over-charged, lithium batteries may explode.
- Do not throw in fires.

### TRANSPORT

If you intend to transport DOC SKATE, including the battery, by plane or other transportation means managed by third parties, contact the local authorities and carrier in advance for information on transport restrictions or limits.

Lithium batteries are considered hazardous substances in many countries.

Before travelling, make sure access and transport are permitted.

International law prohibits shipping single lithium batteries by air.

If you ship your DOC SKATE, the battery must be inside.

### STORAGE

Store in a room with temperature between 5-25°C.

If not continuously used, charge the DOC SKATE battery once a month.

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### TECHNICAL SPECIFICATIONS

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<b>DOC SKATE weight</b>	<b>Approximately 7 kg</b>
<b>Minimum weight of user</b>	<b>20 kg</b>
<b>Maximum weight of user</b>	<b>100 kg</b>
<b>Top speed in Slow mode</b>	<b>10 km/h with approximately 80 kg driver</b>
<b>Top speed in Speed mode</b>	<b>20 km/h with approximately 80 kg driver</b>
<b>Feasible distance with full charge</b>	<b>About 15 Km (variable depending on various factors such as temperature, weight, slope steepness, etc.)</b>
<b>Battery</b>	<b>Li-Ion 25.2V DC, 4.4Ah</b>
<b>Charging time</b>	<b>150-210 minutes</b>
<b>Input power supply</b>	<b>100-240V, 50Hz/60Hz, 2.0A</b>
<b>Output power supply</b>	<b>DC 29,4V ... 1.5A max</b>

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### SYMBOLS AND PICTOGRAMS ON THE PACKAGING

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The product meets European safety directive requirements.



The product contains a battery. At the end of the battery working life in the product, it must be separately discarded from generic waste (see introduction).



The product contains electric and electronic equipment. At the end of the product working life, it cannot be discarded with normal urban waste and must be sent to separate collection (see introduction).



Read the user's manual carefully.



Wear appropriate safety equipment such as knee pads, elbow pads and wrist bands. Use a well-buckled helmet that provides cranial protection.



Use by minors under 16 years of age is prohibited.  
Adult supervision is required for use by minors under 16.



Minimum weight for use 20 kg, maximum weight 100 kg.



DOC SKATE was thought and designed to be used by one person at a time only. Never use it with one or more other people.



Users are held responsible for checking what safety rules apply in the country where they intend to use the DOC SKATE. Check the possibilities of driving in private areas or if driving on public ground is allowed (and the driving rules that apply).



Do not use DOC SKATE under the influence of alcohol, drugs or other substances that could alter the user's reflexes.

Distributed by

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Made in China

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