



KAHE POD

NOTICE





# HELLO !

You have just acquired a Kahe POD, the most innovative plug & play electric motorization of its generation. It will give you the opportunity to multiply your hours of practice, allowing you to evolve longer, more easily with other users, and providing you with security at all times. Your Kahe POD will revolutionize your practice and allow you to progress like never before.

With great powers, great responsibilities! The use of your Kahe POD requires compliance with certain rules to ensure your safety and that of other nautical users . Please read this manual carefully before your first session and refer to it as soon as necessary to ensure that your equipment has a long life.

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# BEFORE GOING IN THE WATER

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# SECURITY

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Your Kahe POD has a propeller that spins at high speed. Careful attention is required to avoid injury while using your equipment.



## **The security elements that we have integrated:**

The propeller is fully shrouded to provide you with maximum protection.

Grids frame the propeller.

The propeller stops in seconds if it is out of the water.

When the battery has just been connected, the propeller can only start once the remote control is on.

## **Safety first !**

Never put your fingers (or any other part of your body!) or object in the propulsion.

If you have long hair, tie it up to prevent it from getting caught in the propeller in the event of a fall.

Disconnect the battery before any intervention on the propulsion, to clean algae snuff in the grid for example.

Use a leash for your boat or your paddle. The remote should always stay with you.

Don't go too far: you should always be able to get back to the bank without the help of the POD.

In sup or kayak, always use a paddle.

## CHILDREN

The Kahe POD is not recommended for children under 16 years old. Regardless of the age of the child, adult supervision is required for any use. You must ensure that the boat and the electric assistance are in perfect working order and that the child has understood how to use the Kahe POD in complete safety, as described in this user manual.



## KAHE SURF RULES

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Kahe POD gives you countless benefits. We invite you to take advantage of the possibilities offered by Motion Core technology to explore new horizons: move against the current or against the wind more easily, sail with family or friends when the physical condition of the practitioners is not homogeneous, surf small swells...

### **You can be faster, more agile, so for the best of the surfing spirit, please respect the KAHE charter**

- It is so much easier for you to position yourself in the desired places: give priority to traditional practitioners without assistance, even if you have priority.
- Against the current or the wind, you go quickly without effort: work around other riders well so as never to get in their way.
- You have the possibility to explore spots more easily, so avoid places that are too crowded or stay a little away from the optimal trajectories.
- Admire the purists as they deserve: they drool, they are gifted, they are infinitely patient. Respect !

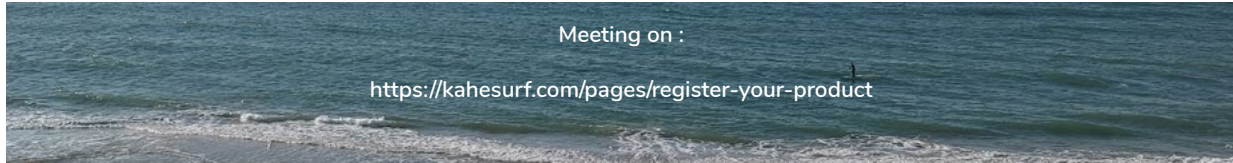
### **And of course, the usual rules specific to our sports remain applicable.**

- Find out before you go sailing: local regulations, bathing areas, weather, tides, currents...
- Stay humble and be aware of your physical condition: always stay close to an easily accessible shore, you must know how to swim to it.
- In surfing, only one rider in action in the wave. The surfer closest to the peak has priority: do not tax, do not snake.
- At sea, never let go of your board, it is a danger for others (use of a mandatory leash in the waves).
- Beyond the rules, use common sense and be respectful of everyone... whatever the level, equipment or current conditions!

## REGISTRATION AND WARRANTY OF YOUR KAHE POD

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**It is important that you register your product, so that we can provide you with the best service available. You will be kept informed of the latest updates, our advice and any other information to facilitate your practice in complete safety.**



KAHE products are guaranteed for 2 years. The warranty covers manufacturing defects of the equipment, it is strictly limited to the replacement of parts recognized as defective or non-compliant after inspection by us.

The product or parts under warranty must be returned by the buyer to his distributor of the brand or to our workshops, at his expense and risk, accompanied by a letter explaining the breakdown as well as the purchase invoice. . This manufacturer's warranty does not affect the legal rights of consumers applicable under the French legislation in force. This warranty does not cover products intended for rental or professional use.

Failures or malfunctions related to:

- use of the propulsion that does not comply with what it is intended for (nautical practice on a canoe, kayak, surfboard or stand-up paddle boat)
- non-compliance with the instructions for use and precautions for use, as described in this user manual
- external elements or poor treatment inflicted on the equipment: fall, shock, accident, vandalism, etc.
- lack of maintenance or care that does not comply with the operations described in this manual.
- to a repair, an intervention or a modification carried out by unauthorized persons or entities by the brand.
- normal wear of the various components of the product: propeller, bearings, sacrificial anode (propeller warhead), decrease in battery performance over time, wear parts...

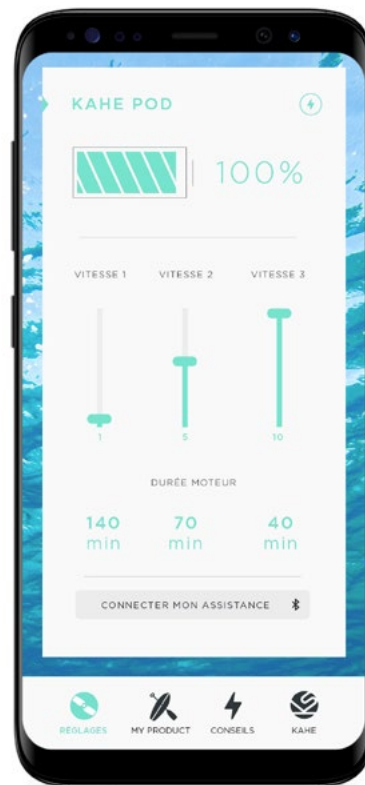


## DOWNLOAD THE APP

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**Before using your Kahe POD for the first time, it is advisable to download the KAHE application to access all the possible settings!**

The application is available on Google Play (Android) and the Apple Store (iOS): just search for “Kahe Surf”.



# REMOTE



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# ACTIVATE THE REMOTE

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The remote control allows you to control your Kahe POD. Thanks to it, when you are on the water, you can choose your speed and follow the state of charge of the battery.

To activate your remote control, simply press the central button for 2 seconds. Pressing the center button again for 2 seconds turns off the remote.



## REMOTE CONTROL LINK > KAHE POD

The blue light is off: the remote control is connected to your Kahe POD.  
The blue light flashes: the remote control is not connected.  
Connect the battery of your Kahe POD so that it is detected by the remote control.

First use ?

Pair your remote control to your Kahe POD (see next page).



# PAIRING THE REMOTE CONTROL TO THE KAHE POD

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On first use, it is necessary to pair your remote control to your Kahe POD. Each Kahe POD has a randomly chosen frequency channel to which the remote control must tune.

## 1 - Connect the battery of your Kahe Pod to be paired

If you have several electrically assisted products, **make sure it's the only one nearby**: the remote control should only be able to detect the product you want to pair.



## 2 - Turn on the remote control

by pressing the central button for 2 seconds.



## 3 - Start pairing mode

Simultaneously press the + and - buttons on the remote control until the blue light flashes rapidly



## 4 - It's done!

Wait 30-60 seconds for the pairing process to complete. Once OK the blue light goes out. Pairing is only done once. Your remote and your Kahe POD will now always stay paired (unless you change the link channel).

# GREEN LIGHTS: SPEEDS AND CHARGING



## CHOICE OF SPEED

Once the remote control is activated, you choose the speed of your choice using the + and - buttons on the remote control. The green light corresponds to the selected speed: speed 1, 2 or 3.



## REMOTE RECHARGE

Connect the cable supplied with your remote control to a USB socket (USB charger or computer socket). At the other end of the cable, connect the magnetic plug to the back of your remote. The green lights on the remote come on and let you know it's charging. When the 3 LEDs stay on continuously, the remote control is charged.

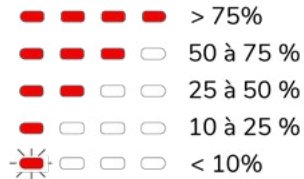


# RED LIGHTS :

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## BATTERY LEVELS KAHE POD BATTERY

- 4 lights: all good, enjoy!
- 3 LEDs: 50 to 75% battery
- 2 LEDs: 25 to 50% battery
- 1 light: 10 to 25% battery  
it's time to go home :)
- 1 flashing light: less than 10% battery, you need to recharge.



To avoid damaging the battery, the Kahe POD automatically shuts off when less than 3% battery remains.

## REMOTE CONTROL BATTERY

- The remote control has an autonomy of about 10 hours.
- The red light flashes: less than 30% battery remains.
- The red light flashes quickly: there is less than 10% battery left, it's time to recharge your remote control :)

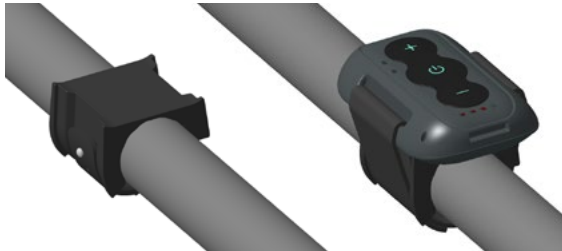


# ATTACHING THE REMOTE CONTROL

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## ON THE PADDLE

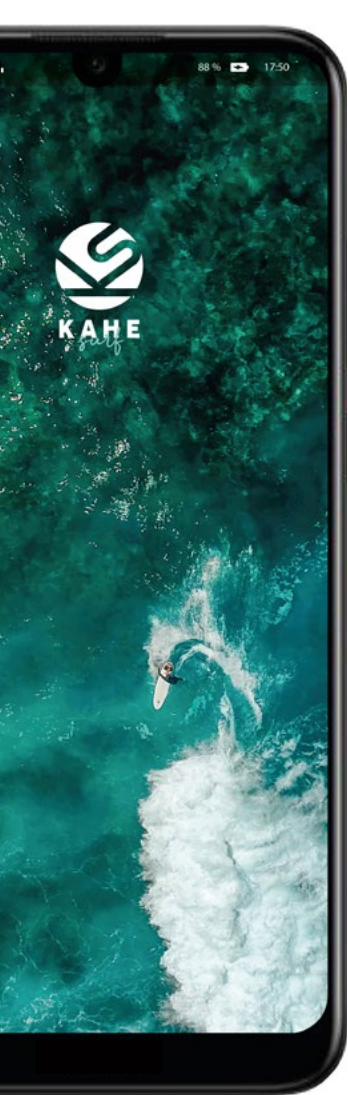
Clip the small black piece on the handle of your paddle, at the level that is most suitable for you, then fix the remote control around this part using the scratch bracelet.



## AT WRIST



Use the scratch bracelet to hold the remote control on your wrist. Two wristband sizes are supplied with your remote control, to fit all wrist sizes.



# APPLICATION

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# FIRST CONNECTION

After its installation, the application guides you to your first connection. The bluetooth of your phone must be activated as well as the location. The Kahe POD must be switched on (battery connected, see page 17). The application will ask you to access some information, it is without obligation, but it will allow us to better understand the use made of KAHE products. We will not use this data for any other purpose.

The first step is to connect your Kahe POD to the app. You then have access to all the settings ("settings" menu), the characteristics of your Kahe POD ("my product" menu), the most important information ("advice" menu) and ways to contact us ("kahe" menu «).



RÉGLAGES



MY PRODUCT



CONSEILS



KAHE



## SETTINGS MENU



### > **Battery**

At the top you have access to the charge/discharge level of the connected battery, as a percentage of its total capacity.

### > **Speeds**

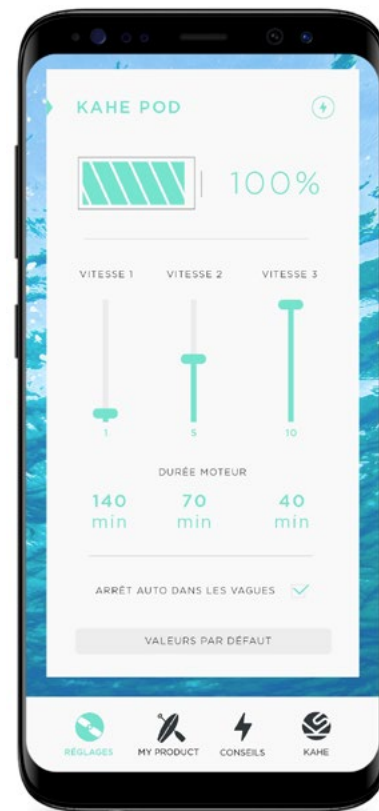
You configure the 3 speeds as you wish thanks to the sliders available. When you navigate, you choose the speed of your choice using the + and - buttons on the remote control.

### > **Engine duration**

It is calculated based on the state of charge of the battery. This varies slightly depending on other factors (the weight of the practitioner, the wind, the current, etc.).

### > **Auto stop in waves**

This function is useful when surfing. When this function is activated, the on-board intelligence automatically stops the Kahe POD, after the take-off, in waves powerful enough to train your boat. This allows you to surf the classic way.



## MY PRODUCT MENU

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### > **Kahe POD connected**

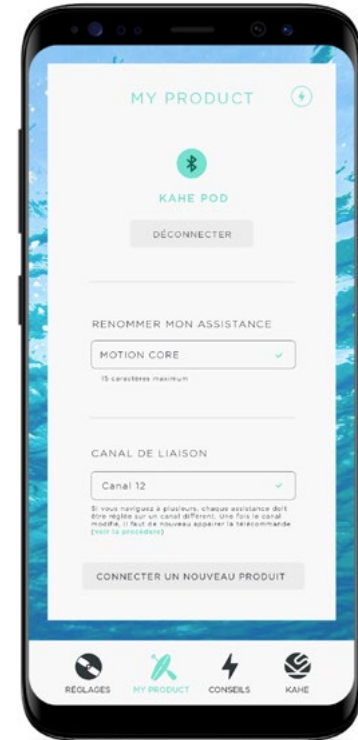
The first line shows the Kahe POD currently connected to your phone via bluetooth. You can rename it as you see fit.

### > **Renaming my Kahe POD**

You can rename your product as you see fit, the name will be remembered, allowing you to recognize your Kahe POD even if other products are around.

### > **Link channel**

When you are on the water with several people using an electric motor with remote control, each product must be set to a different channel so as not to interfere with each other. If you change the link channel, you will need to pair your remote again with your Kahe POD (see page 11).



## TIPS & KAHE MENUS



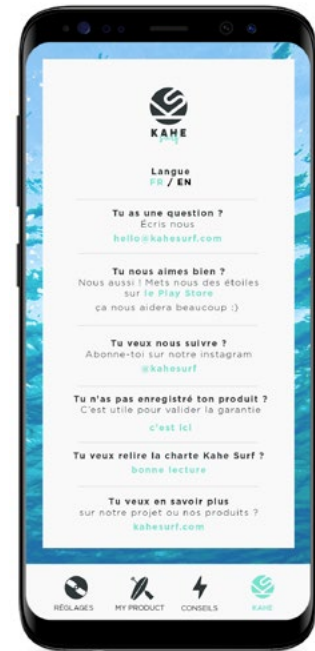
### ADVICE

This page gives you access at any time to the information you need to make the best use of your Kahe POD: rules for safety, maintenance and use.



### KAHE

For all other needs, the Kahe Surf menu gives you all the means to find the right information to contact us!



# USE



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## CHARGING THE KAHE POD BATTERY

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**It is advisable to fully charge the battery before first use, as well as that of the remote control.**

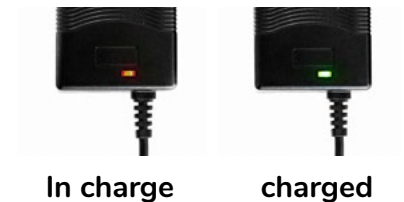
Only use the battery delivered with your product, or a dedicated battery for your Kahe POD sold by Kahe Surf. To recharge the battery, only use the charger supplied with your Kahe POD or a charger dedicated to your equipment and sold by Kahe Surf. At any time, you can access the state of charge of your battery using the application on your phone (see p. 16) or using the meter on the remote control. The battery must not be modified or disassembled in any way. It should never come into contact with water.

### **To recharge your battery**

- Connect the charger to a suitable mains socket (the indicator should light up green)
- Connect the connector to the battery
- If the battery needs to be charged, the light will change to red. If it is already charged, the light stays green.
- When the battery is fully charged, the indicator turns green: the connector can be disconnected.

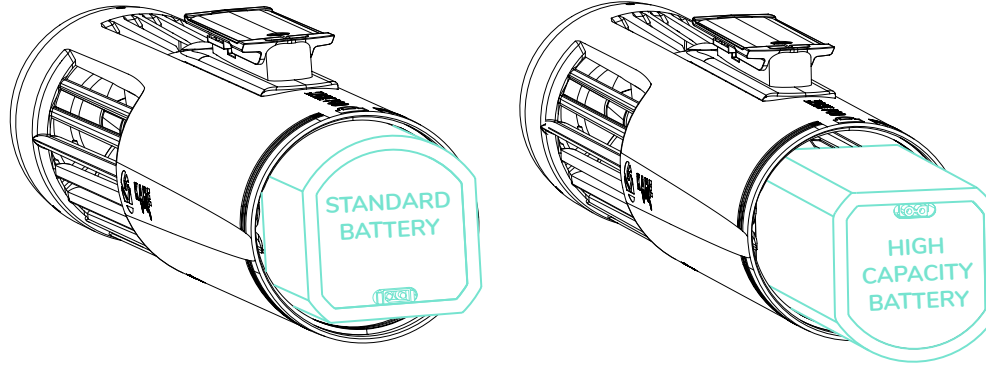
Battery charging time is approximately 3 hours.

To recharge the remote control, see page 12.



## INSTALLING THE KAHE POD BATTERY

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The **standard battery** is inserted with the **connector down** (rounded side up).

The **high capacity battery** (optional) is inserted with the **connector facing up** (rounded side

### IMPORTANT

The battery should never come into contact with water, nor the inside of the product. Make sure your Kahe POD and your hands are completely dry before opening the compartment to access the battery. Don't do it over water or you risk losing the battery.

## TURNING ON THE KAHE POD

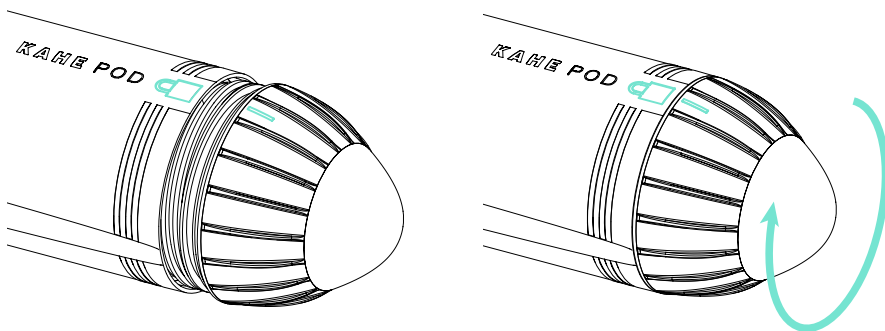
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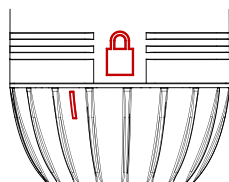
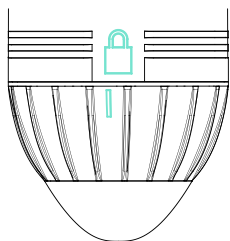
To put your Kahe POD into operation, simply plug the connector into the battery. At the moment of the connection, you can perceive a small spark. This is completely normal, and without any danger!  
Then close the waterproof compartment (see next page) and switch on your remote control: you're ready to go...



## OPENING & CLOSING THE WATERPROOF COMPARTMENT



To properly screw the front warhead and seal the engine and battery compartment, start by placing the mark on the warhead opposite the «padlock» marking. Then screw the ogive by making a complete turn: the mark must be positioned again at the level of the padlock. There is no need to tighten, just check that the mark is in the padlock area!



### IMPORTANT

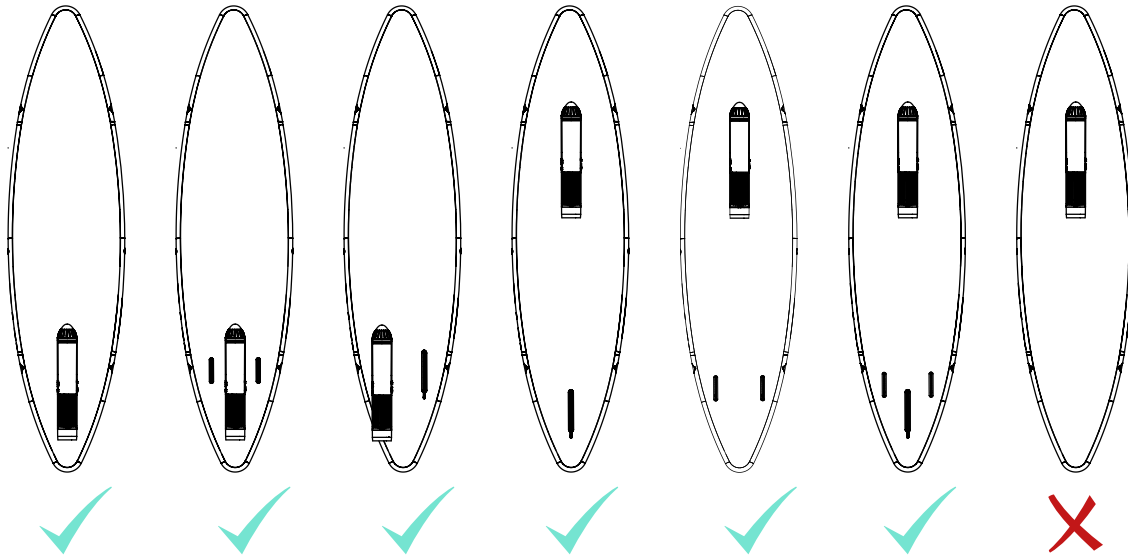
The battery should never come into contact with water, nor the inside of the product. Make sure the Kahe POD and your hands are completely dry before opening the compartment to access the battery. Do not attempt to open the compartment near a body of water, to avoid the risk of losing the battery.

Opening the compartment can be quite difficult, it is the guarantee of a perfect seal. Do not hesitate to put grease on the seal from time to time to facilitate opening.

## POSITIONING THE KAHE POD

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Your Kahe POD comes with an interface allowing it to be attached to most standard fin boxes for kayaks or inflatable stand-up paddleboards. The Kahe POD, once in place, acts as a fin by stabilizing the boat. If your boat has several fin boxes, you can attach it to one of the slots and keep the fins in the other slots. It is necessary to position at least one fin or a Kahe POD at the back of your boat.



## INSTALLATION ON YOUR BOAT

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Two small plastic parts are delivered with your product, which serve as a key to lock your product in the fin support of your boat. These brackets sometimes have slight differences in size, which is why we provide you with two keys, one 12mm wide and the other 14mm wide. Use the one that seems most suitable to you and that generates the least play possible.

1. Slide your Kahe POD into the groove provided for this purpose on your boat
2. Insert the key until the locking click
3. Check that the Kahe POD is properly immobilized and cannot leave his apartment.

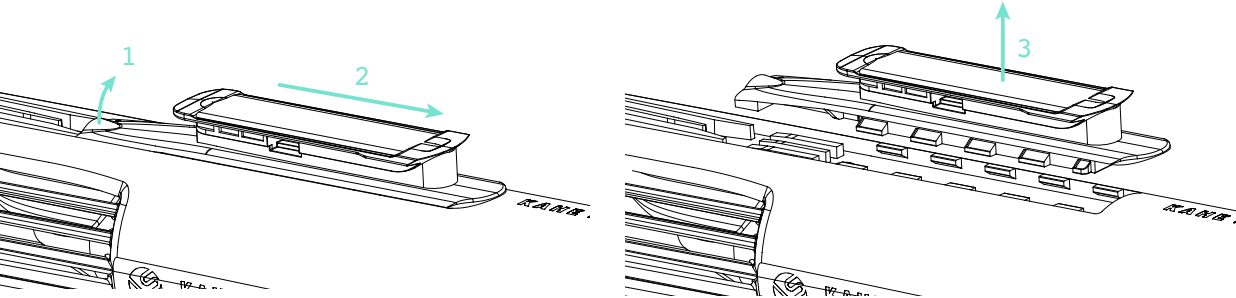


# INTERFACE CHANGE

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The connecting interface between the Kahe POD and the boat is removable, without tools. This allows you to change it to replace it, for example, with another interface of another standard.

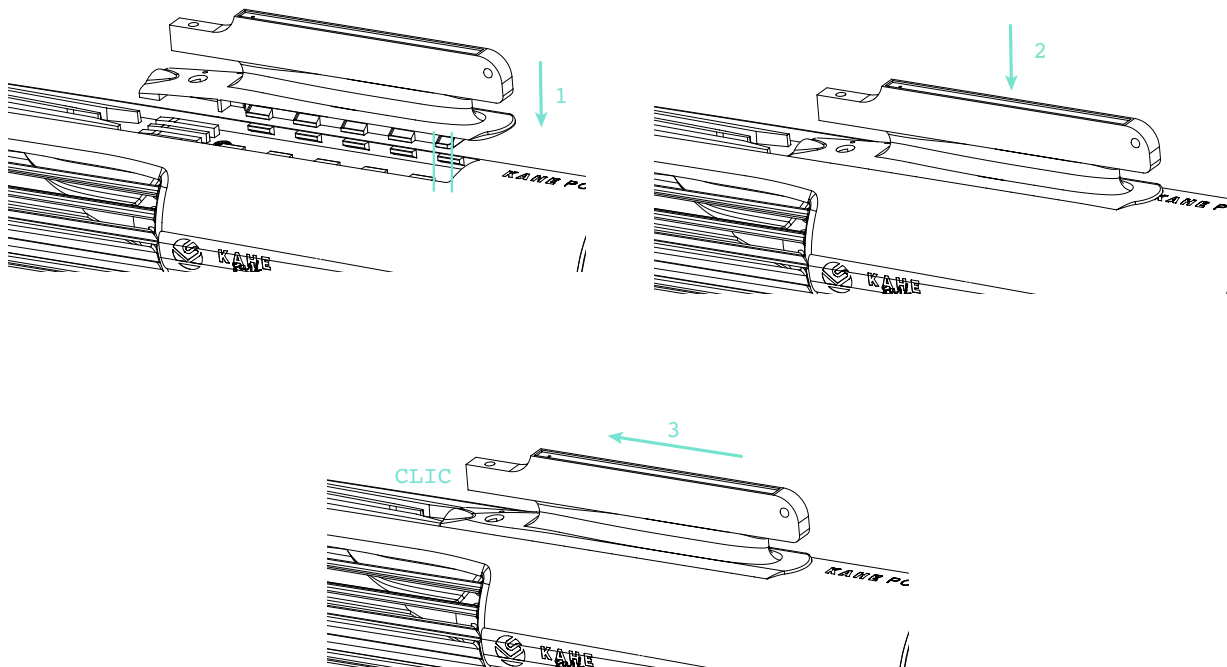
## REMOVE THE INTERFACE



You have to lift the back of the interface a few millimeters, and push it forward to release it from its housing.

## FIX AN INTERFACE

To attach an interface to the Kahe POD, simply position the interface correctly in the slot provided for this purpose, press it so that the back of the interface rises, and slide the interface upwards, back until the lock **CLICKS**.



## ON-BOARD INTELLIGENCE

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**Your Kahe POD is equipped with advanced functions allowing you to concentrate on your practice in complete safety**

**Automatic shutdown out of water:** your Kahe POD automatically shuts off in seconds when taken out of the water. This avoids any accident and preserves your product.

**Automatic stop in the event of loss of link with the remote control:** The motor stops when the remote control is switched off, or when the link is no longer ensured. If you ever fall into the water and your boat leaves with the engine on (broken leash for example), the propulsion will stop automatically when the connection is lost.

**Auto stop in the waves:** Thanks to the app, you can set your Kahe POD to stop automatically if you catch waves to surf. This allows you to surf in a natural way.





# CARE

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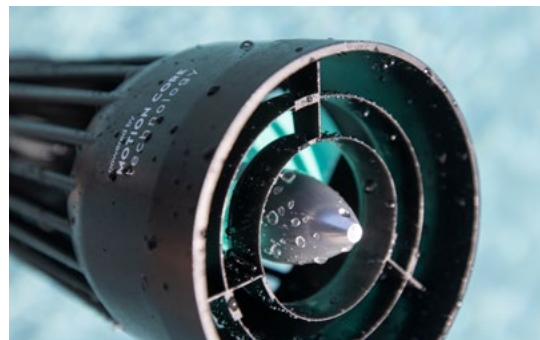
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## BEFORE GOING IN THE WATER

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Before each session, carefully inspect your boat and your Kahe POD to ensure that everything is in working order. The front warhead of the Kahe POD must be perfectly locked. Protective grilles upstream and downstream of the propeller must be present. **Nothing should prevent the propeller from turning.** Check that your battery is fully charged and attach your leash before setting off..



### **IMPORTANT**

If you notice that a part of your Kahe POD is broken or damaged, do not use it anymore. Immediately contact the brand's after-sales service to resolve the problem.



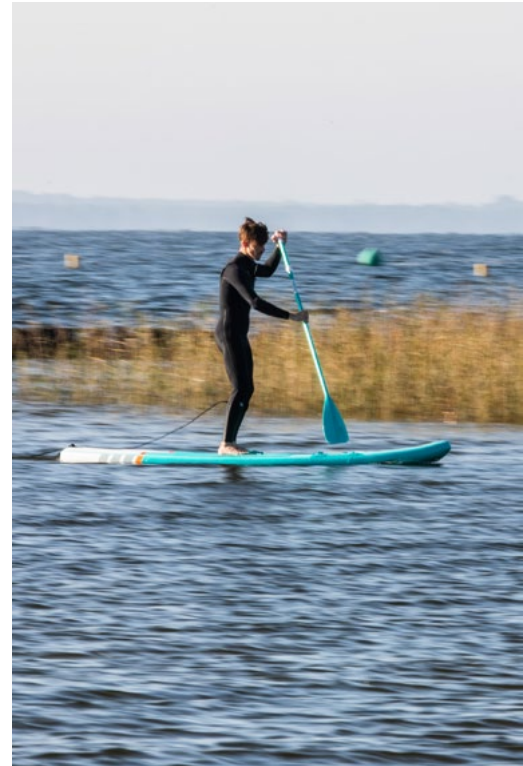
## NAVIGATION

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**Constantly check that there is enough water under your boat (about 30 cm, it depends on the type of boat you are using) so that the Kahe POD does not rub against the bottom or receive a shock: it will damage your Kahe POD.** Do not operate your Kahe POD outside of water. Keep the remote control with you at all times, never in the boat. This is a safety element: the propulsion stops if the remote control is out of reach. If you attach the remote control to your paddle, use a paddle leash.

### **IMPORTANT**

Be respectful of other users: avoid any collision and stay away from bathing areas.



## RETURN FROM SESSION

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When you return from your sessions, as soon as you get out of the water, it is prudent to turn off the remote control (long press of 2 seconds on the central button), which deactivates the Kahe POD.



You must then rinse your Kahe POD completely with fresh water to clean it, remove any sea salt or dirt that may have remained stuck. It is also good to do the same with the remote control.

### **IMPORTANT**

**Do not open the waterproof compartment of your Kahe POD before it is completely dry: under no circumstances should water get inside.**



Sometimes, algae or other dirt can remain attached to the propulsion grids or the propeller despite rinsing. For your safety, wait until you can disconnect the battery before putting your hands in it to clean them.

On the other hand, the propeller nose will lose its shine over time and its surface may become slightly porous. Its role is indeed to protect the propeller shaft from marine corrosion by suffering attacks in its place: this is called a sacrificial anode. This is completely normal !

Your equipment must be stored in a dry place and away from direct sunlight and any source of heat. The battery must be disconnected.

# BATTERIES

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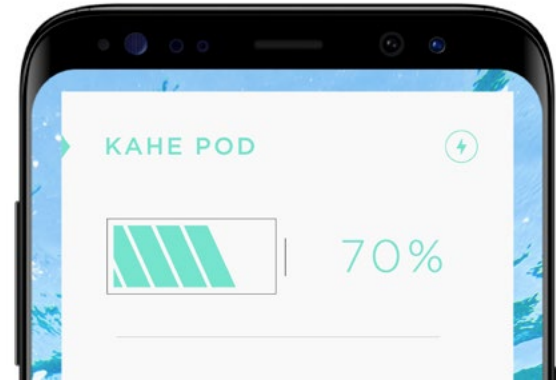
Your battery uses lithium-ion technology, which gives you an excellent range/weight ratio.

However, and this is normal, its performance drops slightly as the charge and discharge cycles progress. We give you the following advice to prolong its performance to the maximum.



A fully discharged battery can be damaged beyond repair. We plan to cut the propulsion when there is actually still some energy left in your battery. But be aware that an unused battery still discharges gradually, even if it is not connected.

**It is therefore necessary to quickly recharge a battery that has been deeply discharged (until the automatic shutdown of the Kahe POD for example, see p.13).**



**When not in use for several months, your battery should be stored with a charge level between 50% and 75%.** This will prolong its life to the maximum. The same goes for your remote control: do not store it if the red battery light is flashing, it is better to recharge it a little before, ideally until two of the three green charging lights are on continuously!

Your equipment should be stored in a cool, dry place (but frost-free), away from direct sunlight and any source of heat.



# SPECIFICATIONS

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## ENGINE AUTONOMY



Kahe POD		Power consumption (watts)*	Speed (km/h)*	Motor autonomy (min)*		Distance to motor (km)*	
				Standard battery	Long battery life	Standard battery	Long battery life
Speed	2	50	4,0	120	240	8,0	16,0
	5	86	5,0	70	140	5,8	11,6
	10	150	6,2	40	80	4,1	8,2

\* Indicative data, dependent on many factors (weight of surfer, model of boat, position on the board, currents, wind, swell, etc.). Our data comes from tests carried out in flat water, without wind or current, with a 72 kg surfer on a 10-foot stand-up paddle (see photo). These data are achieved without paddling, with the sole propulsion of the Kahe POD.

# TECHNICAL DATA

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## **KAHE POD electric assistance**

MOTOR: Direct drive 4030 - 250 Kv brushless outrunner motor

STANDARD BATTERY: 6S1P lithium-ion (M50 LG Chem cells) - capacity 99.6 Wh

BATTERIE LONG LIFE BATTERY: 6S2P lithium-ion (M50 LG Chem cells) - capacity 199.2Wh

ESC : High frequency 8 kHz - 50 amps max

## **Li-ion charger**

INPUT : AC 100-240V

OUTPUT : DC 25.2V 2.0A

CHARGING TIME\* : 22.5 hours (standard battery) - 5 hours (long life battery)

\* Estimated charging time from 10% to 90%

# DECLARATION OF CONFORMITY



CORPORATE NAME AND ADDRESS : Motion Concept Group - 10 avenue du Fort Médoc 33460 Cussac Fort Médoc

Declares that the following nautical electric assistance:

COMMERCIAL NAME : Kahe Pod

TYPE : nautical electric assistance

complies with the essential safety requirements applicable to it:

- Machinery Directive 2006/42/EC
- RED Directive 2014/53/EU
- LVD Directive 2014 / 35 / EU
- EMC Directive 2014/30/EU
- RoHS Directive 2011/65/EU
- Battery standards IEC 62133-2:2017 & UN 38.3



Done in Cussac Fort Médoc  
on June 17, 2022

Nicolas Quendez  
President of Motion Concept Group

