

**JAYKAY**



# **E-FIN 2.0**

**OPERATION MANUAL**

# E-FIN 2.0

## SAFETY INSTRUCTIONS FOR CHARGING



**Warning: Never charge a device that may have been deeply discharged!**



**Warning: Never leave the e-fin / controller unattended while charging.**



If the e-fin is not used for a prolonged period of time or is stored with an empty battery, the battery may become **deeply discharged**. Charging a deeply discharged battery poses a **risk of fire** due to the battery cells.



**Fire hazard**

## BATTERY STATUS CHECK E-FIN



1. Clean the charging port of the fin to ensure a safe connection and connect the fin to the charger.

The remote will now connect to the e-fin and display the current battery level.



2. After a maximum of 5 seconds, the charging indicator appears on the fin symbol.



Remove the charger immediately from the e-fin if no charging indicator is displayed!



## BATTERY STATUS CHECK OF THE E-FIN



3. If the charging indicator does not appear, restart the pairing process according to the instructions. If the indicator is still not displayed, repeat the procedure starting from step 1.



**Remove the charger from the e-fin if pairing is not possible!**



**Never leave the charger connected to the e-fin for longer than 30 seconds if the battery status is unclear (no pairing, no charging indicator).**



**A rapid clicking noise is a clear indication of deep discharge. Remove the charger from the e-fin immediately!**

If you suspect that the battery is deeply discharged, store the battery in a fire-resistant location and contact our customer service at [safety@jaykay-sport.de](mailto:safety@jaykay-sport.de).

## WARNING: DEEP DISCHARGE



If the e-fin is not used regularly or is stored with an empty battery, the battery may become deeply discharged.

Charging a deeply discharged battery poses a risk of fire to the battery cells.



After the battery of the e-fin has been completely discharged during normal use, it must be recharged **within 24 hours**.  
**Never store a discharged battery!**



If the battery of the e-fin shows no defect, recharge it after each use and for storage to **at least** approx. 60% (three out of five battery bars on the display).



**Check the battery status of the e-fin every 3 months.**



If the previous checks indicate a defective battery of the e-fin, it must be **removed from the charger immediately**. The device must no longer be used.



Store the e-fin in a fire-resistant location and contact our customer service at [safety@jaykay-sport.de](mailto:safety@jaykay-sport.de). We will resolve the issue professionally.

# CHARGING THE E-FIN 2.0 AND REMOTE

## GENERAL INFORMATION

- Both devices have a battery-friendly charging time of approx. 3.5 hours.
- The e-fin 2.0 is charged using the supplied charging cable with power adapter.
- The remote of the e-fin 2.0 is charged using the white USB cable.
- Do not expose the charger to water or extreme humidity.
- Do not charge the JAYKAY e-fin 2.0 or the JAYKAY remote outdoors or in the rain.
- Dry the charging ports before charging.
- The supplied charger should be checked regularly for damage to the cable, plug, housing or other parts.
- If damage is detected, the e-fin 2.0 must not be charged until the charger has been repaired or replaced.
- Stop the charging process if charging of the e-fin 2.0 and/or the remote is not completed within the specified time.
- Stop charging immediately if the batteries become unusually hot, emit odors, discolor, deform, or if anything unusual is noticed during use, charging or storage.
- Never charge a device that may have been deeply discharged.
- Do not charge the e-fin 2.0 if the battery housing is cracked, swollen or shows other signs of damage.
- Stop using the device immediately and contact customer service.
- If the temperature of the e-fin exceeds 45 °C, charging is interrupted until the temperature falls below 45 °C. If the charging time exceeds 3 hours, this condition has occurred.

## MAINTENANCE AND STORAGE



Failure to follow these safety instructions may result in fire, electric shock or other injuries, or damage to the JAYKAY e-fin, the JAYKAY remote or other objects.

- The device contains an internal rechargeable lithium-ion battery, which may pose a fire or chemical hazard if handled improperly.
- Do not subject the battery to impacts by dropping or throwing the product.
- Do not throw the product or battery into fire, as this may cause an explosion.
- Store the product dry between **5 °C and 20 °C**.
- After a complete discharge during normal use, the battery must be recharged within **24 hours**.
- **Never store a discharged battery.**
- Ensure the battery level is at least **60 %** before long-term storage.
- Check the battery status of the e-fin every **3 months**.
- Do not expose the e-fin to direct sunlight.
- Do not charge or use the device in locations where the temperature may exceed **45 °C**.
- Rinse the e-fin with fresh water after **every use** and dry the charging ports.
- Do not short-circuit the battery by bringing the connectors into contact with metal objects.
- **Never charge a device that may have been deeply discharged.**



**Never leave the e-fin / remote unattended while charging.**



**Never charge a device that may have been deeply discharged.  
Follow the instructions in this manual.**



# TABLE OF CONTENTS

Safety Instructions	04
Warnings	05
1. Package Contents & Technical Data	06
2. e-Fin 2.0 Glossary	07
3. Remote Control Glossary	08
4. Display Glossary	09
5. Assembly	10
6. Initial Operation	15
7. Operation	17
8. Maintenance, Repair, Disassembly and Storage	16
9. Environmental Elements and Disposal	21
10. Warranty	21
11. Liability Disclaimer	18

# SAFETY INSTRUCTIONS

## **The e-Fin 2.0 is powered by a propeller.**

Therefore, you should handle it with care to avoid injuries and damage. To operate it safely, you must have read all the warnings and instructions in this manual.

## **The e-Fin 2.0 can lose its drive power at any time.**

This can be caused by radio interference, a dead battery in the remote or fin, an accidental incorrect setting on the power regulator, or various other factors. Use the e-Fin 2.0 on your SUP or kayak only in a manner that you would feel confident doing without the drive.

## **Pay attention to your surroundings.**

Do not ride near nesting birds, seal habitats, or similar places inhabited by animals.

## **Careless riding on the water can lead to fatal accidents.**

Always be attentive when you are on the water.

Always ride defensively and assume that others do not see you.

Do not ride in heavy waves (waves > 0.5 m or > 18") or during storms.

Do not ride in shipping lanes or across the paths of larger vessels.

Avoid riding at night or in poor visibility and fog whenever possible.

## **Follow laws and regulations.**

Different bodies of water have different navigation rules and prohibitions. Familiarize yourself with the local laws.

Pay attention to swimming areas and areas closed to water sports.

# ADDITIONAL WARNINGS



**Caution:** Never ride through sea grass, mud, silt, or heavily polluted waters. This can jam the propeller. Make sure that the grills in front of and behind the propeller are clear. If something gets into the propeller, take the fin out of the water, dry it completely, and then remove the foreign object with an appropriate tool. Never reach into the propeller with your fingers.



**Caution:** Always be sure there is sufficient depth (> 0.5 m, > 18") before putting the board with the e-Fin 2.0 into the water. In the water, always be aware of shallow areas and maintain the minimum water depth between the e-Fin 2.0 and the bottom.



**Caution:** Do not open or tamper with the electronic housing of the battery pack. You could receive an electric shock! Additionally, this would void the warranty.



**Caution:** Always be sure the screws in the adapter are securely tightened, the e-Fin 2.0 is correctly inserted into its slotted receptor and held in with the pin. Secure your e-Fin 2.0 to your SUP or kayak with the included safety tether. Secure the remote to the paddle with its own safety tether.



**Caution:** Be sure to keep fingers, hair, clothing, etc. away from the propeller and other moving parts.



**Caution:** Always keep the e-Fin 2.0 safely away from infants and small children.



**Caution:** Please make sure to attach the safety leash to the e-fin and the small safety leash to the remote control to prevent losing both parts in the water. JAYKAY is not liable for any losses caused by improper use. Always pay attention to proper handling and safety instructions.

# 1. PACKAGE CONTENTS AND TECHNICAL DATA

- 1 x e-Fin 2.0 (battery: 18 V DC; 10 Ah; 180 Wh) ①
- 1 x Remote (battery: 3.6 V DC; 500 mAh; 1.8 Wh) ②
- 3 x Adapter + mounting hardware ③
- 1 x e-Fin 2.0 Security leash ④
- 1 x Charging port cover ⑤
- 1 x e-Fin 2.0 Power supply
- 1 x USB Remote charging cable
- 1 x User manual

## Optimal operating temperature:

5 °C - 40 °C (41° F - 104° F)

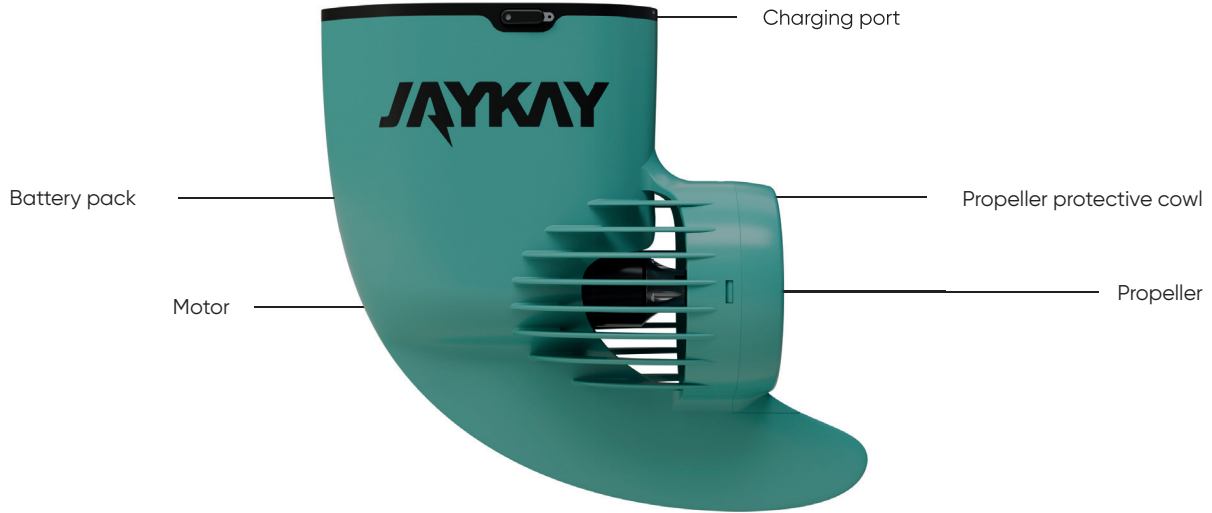
## Min. & max. operating temperature:

0 °C - 60 °C (32° F - 140° F)

## Humidity range



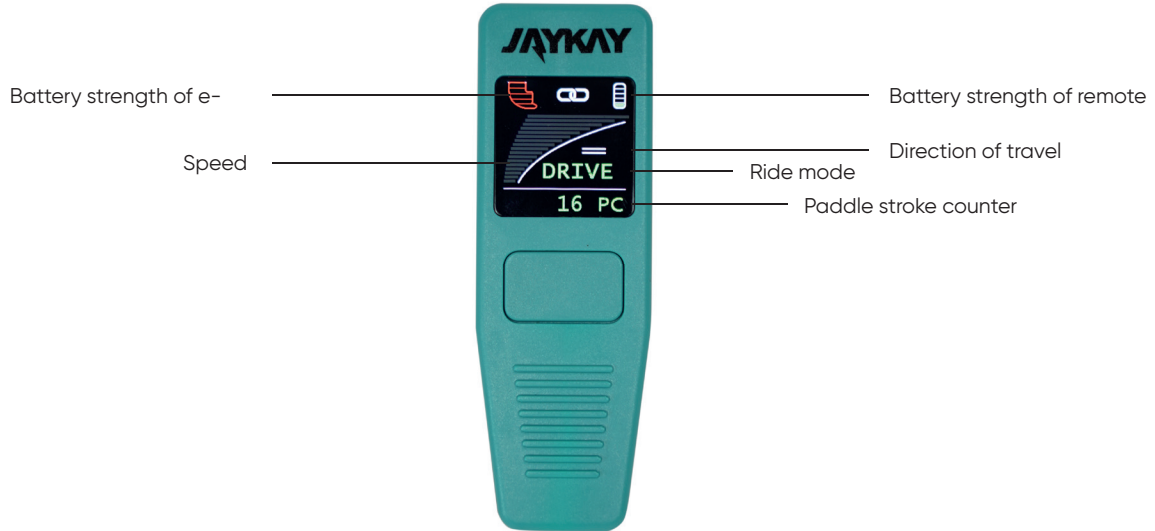
## 2. E-FIN 2.0 GLOSSARY



### 3. REMOTE CONTROL GLOSSARY



## 4. DISPLAY GLOSSARY



# 5. ASSEMBLY

## 5.1 REMOTE CONTROL

The control unit is clipped to the paddle at hand height. It must be mounted parallel to the paddle surface, with the display facing the user. The control unit must be secured to the paddle using the included safety strap.

## 5.2 E-FIN 2.0

To mount the e-Fin 2.0, turn the inflated SUP/board over so that the fin mount is facing upward. Depending on the fin mount on your board, choose the appropriate adapter and screw it onto the e-Fin 2.0 using the three provided screws. Ensure that the screws are securely fastened. Now the fin can be attached to the board. Make sure the locking pin is securely fastened. Once you have affixed the e-Fin 2.0 in the mount, you can secure it additionally on the top of your SUP with the supplied safety leash using a carabiner.

## 5.3 US-BOX

For the US fin box system, the e-Fin 2.0 is secured with a washer and a screw.

## 5.4 SLIDE-IN

For the slide-in system, the e-Fin 2.0 is inserted into the fin box and then secured with the provided security pin.

## 5.5 SMARTLOCK

For the Smartlock system, the e-Fin 2.0 is secured with the fin mount box's locking clip.



**Note:** For carbon-reinforced boards or sinkers, there may be signal interruptions between the e-Fin 2.0 and the control unit.

## 5.6 E-FIN SAFETY LEASH

On the side of the battery pack, towards the propeller, there is an eye-let where you can attach the safety leash for the e-fin. You then attach the carabiner at the top of your SUP onto the safety hook, where you also attach the leash for your leg. You can also use the loop of the safety leash to secure the protective cover for the charging port, as well as the safety clip for the slide-in adapter. This way, you only need to thread a small strap through the little opening.



**Note:** Please make sure to attach the safety leash to the e-fin to prevent losing the device in the water. JAYKAY is not liable for any losses caused by improper use. Always pay attention to proper operating and safety instructions.





Protective Cover for Charging Port

Safety Clip for Slide-In Adapter

### **5.7 PROTECTIVE COVER FOR CHARGING PORT**

There is a recess on the fin where you can attach the protective cover for the charging port of the fin.

### **5.8 SAFETY CLIP FOR SLIDE-IN ADAPTER**

On the side of the battery, towards the propeller, there is a recess on the fin where you can secure the safety clip for the slide-in adapter. You then slide the safety clip itself into the opening in the adapter after you have fully inserted the fin into the slide-in box.

## 5.9 SAFETY LEASH FOR THE REMOTE CONTROL

On the back of the remote control there is a loop where you can attach the safety leash. The other end of the strap is placed over the shaft of your paddle, and then you secure the remote control itself to the paddle using the rubber clip.



**Warning: Please attach the small safety leash to the remote control to prevent losing the device in the water. JAYKAY is not liable for any losses caused by improper use. Always pay attention to proper operating and safety instructions.**





*JAYKAY E-FINNE 2.0*

*MEET THE*  
***NEW WAVE***

## 6. INITIAL OPERATION

### 6.1 SWITCHING ON AND OFF

The e-Fin 2.0 turns on automatically when it is submerged with the motor underwater. The fin will turn off automatically with an approximately 10 second delay when it is removed from the water. The control unit is turned on and off using its power button. The control unit will also turn off automatically after the e-Fin 2.0 has powered down.



**Note: To turn on the e-Fin 2.0, it should be fully submerged in water.**

### 6.2 PAIRING REMOTE AND E-FIN 2.0

The e-Fin 2.0 is pre-paired upon delivery. If, for any reason, the e-Fin 2.0 needs to be re-paired, please refer to section 7.3. Menu Item CONNECT

### 6.3 BATTERY STATUS

The current battery level can be checked on the remote control unit.

The fin icon in the top left corner of the display shows the battery level of the e-Fin 2.0. The bar icon in the top right corner of the display shows the battery level of the remote control unit itself.

### 6.4 CONNECTION STATUS DISPLAY

When the remote control is connected to the e-Fin 2.0, the pairing icon on the display glows green. If the remote is not connected to the e-Fin 2.0, the pairing icon glows white.

### 6.5 CHARGING THE E-FIN 2.0 AND REMOTE CONTROL

Both devices have a battery-safe charging time of approximately 3.5 hours. The e-Fin 2.0 is charged using the included charging cable with power block. The white USB cable is used to charge the remote



**Warning: Never leave the e-Fin 2.0 or remote control unattended while charging.**



**Note: If the temperature of the e-Fin 2.0 exceeds 45°C (113° F), charging will pause until the temperature drops below 40°C (104° F). If charging time exceeds 3.5 hours, this protective action might be the reason.**

- a. Regularly inspect the supplied charger for damage to the cable, plug, housing, and other parts. If damage is found, do not charge the e-Fin 2.0 until the charger has been repaired or replaced.
- b. Do not expose the charger to moisture or extreme humidity. Charge the e-Fin 2.0 and the remote only in a dry environment. Wipe the charging ports dry before charging.
- c. Stop charging if the e-Fin 2.0 and/or control unit is not fully charged within the specified time. Stop charging if the batteries become unusually hot, begin to smell, change color, deform, or if you notice anything unusual during use, charging, or storage.
- d. Do not charge the e-Fin 2.0 if the battery housing has cracks, swells, or shows other signs of damage. Stop using it immediately and dispose of the battery promptly.

# 7. OPERATION

## 7.1 REMOTE CONTROL ON/OFF FUNCTION

ON: Press the button once to turn on the remote control.

OFF: Press the button for approximately four seconds, until the display shows "-OFF-" and the display turns off.

## 7.2 SELECT YOUR DRIVE MODE

Press the button once to switch between the three modes: „Cruise,“ „Paddle,“ and „Drive.“

„Cruise“ In Cruise mode, you set the desired power by adjusting the slider on the remote control up or down. The longer you hold the slider up, the higher the power setting will be. The same applies for the reverse gear.

„Paddle“ In Paddle mode, you also adjust the desired power by adjusting the slider on the remote control up or down. However, in this mode, the e-Fin 2.0 activates only when you perform a paddle stroke with the remote control attached to the paddle.

„Drive“ In Drive mode, the fin responds directly to the specific slider position of the remote. The power in both driving directions corresponds to the position of the remote control slider. Remoteschiebers.

## 7.3 OPENING THE MENU

To open the remote control menu, hold the button down for approximately three seconds until the menu appears.

You can navigate through the different menu items by sliding the remote control slider up or down.

To open the displayed menu items and any further submenus, press the power button once. In each submenu, you'll find the „EXIT“ option, which allows you to leave the menu.

# 7. OPERATION

„INFO“ Here you will find various items of information:

„CH CYCLE“

„FIN BOOT“: Number of power-ups of the most recently paired e-Fin 2.0

„FIN CHARGE“: Number of charge cycles of the most recently paired e-Fin 2.0

„REMOTE BOO“: Number of power-ups of the remote control

„BATTERY“

Individual cell voltage of the e-Fin 2.0

„PAD STAT“

„CHARGE“: Number of paddle strokes since the last charge

„HIGHSCORE“: Highest number of paddle strokes since the last charge

„ALL“: Total number of paddle strokes

„SETTINGS“ Here you can find all further settings for operating your e-Fin 2.0.

„POWER“: Here, you can choose between three different power levels:

PWR LOW – PWR MID – PWR HIGH

This setting allows you to adjust the power of your e-Fin 2.0 to, for example, extend battery life, or to set a child-friendly power level.

„CONNECT“: Here, you can pair your remote with one or more e-Fin 2.0s. After pressing the button once, the remote enters pairing mode. The e-Fin 2.0 you want to pair must now be connected to the charger. When you remove the charging plug from the e-Fin 2.0, that e-Fin 2.0 will be paired with the remote. Repeat this process to pair up to five e-Fin 2.0s simultaneously.

# 7. OPERATION

## „PAD MODE“

- a) Here, you can turn the paddle counter on or off.
- b) „PC ON“ Your paddle strokes will be counted.
- c) „PC OFF“ Your paddle strokes will not be counted.

„PAD INV“: Here, you can set whether the e-Fin 2.0 adds drive during the paddle stroke or between paddle strokes.

- a) REGULAR: During the paddle stroke
- b) INVERT: Between paddle strokes

„SLID INV“: Here, you can set how the remote control slider functions.

- a) REGULAR: Sliding up = Forward / Sliding down = Reverse
- b) INVERT: Sliding up = Reverse / Sliding down = Forward

„DISP OFF“: Here, you can set whether and after how much time the display should turn off. This setting helps increase the battery life of your remote control. The remote control and your e-Fin 2.0 will remain connected even

if the display turns off. You can reactivate the display by pressing the power button once.

- a) „10sec“: Display turns off after 10 seconds.
- b) „20sec“: Display turns off after 20 seconds.
- c) „40sec“: Display turns off after 40 seconds.
- d) „ALWAYS ON“: Display stays on continuously.

„CALBRATE“: Here, you can calibrate the slider on the remote control. This is necessary if the slider on the remote control does not correspond to the desired power of the e-Fin 2.0. This is best checked in „DRIVE“ mode.

## 8. MAINTENANCE, REPAIR, DISASSEMBLY AND STORAGE



**Warning: Failure to follow safety instructions may result in fire, electric shock, and other injuries, or damage to the JAYKAY e-Fin 2.0, JAYKAY remote, and other items.**

- a. Do not attempt to disassemble the product without consulting JAYKAY's service department. If your device requires maintenance, contact JAYKAY support at [service@jaykay-sport.de](mailto:service@jaykay-sport.de)
- b. Any modifications to the product not expressly approved by JAYKAY may void the warranty.
- c. Do not subject the batteries to shocks by dropping or throwing the product.
- d. Do not throw the product or battery into a fire, as this could cause an explosion.
- e. Do not short-circuit the battery or charger by making contact between the connectors and other metallic objects. This could cause injuries or a fire and may also damage the battery or charger.
- f. Your device contains an internal rechargeable lithium-ion battery, which poses a risk of fire or chemical burns if mishandled.
- g. Do not charge or use the device in an environment where temperatures may exceed 45° C (113° F)
- h. Do not expose the fin to direct sunlight.
- i. Rinse the fin with fresh water after EVERY use and cloth dry the charging ports.
- j. Ensure that the battery level is approximately 50% before long-term storage.
- k. Store the product in a cool and dry place.

## 9. ENVIRONMENTAL ELEMENTS AND DISPOSAL



### Notes on disposal of the product and batteries:

**Under registration number DE 98465168, we are registered as a manufacturer of electrical and/or electronic equipment; and under registration number 78713801 as a manufacturer of batteries/rechargeable with the Stiftung Elektro-Altgeräte Register (EAR Foundation), Nordostpark 72, 90411 Nuremberg.**

Your device must not be disposed of with household waste. Please follow local regulations for the disposal of electronic devices. If the device shows signs of damage, such as bulging, swelling, or deformation, stop using it immediately and contact our customer support.

- Dispose of used batteries according to the applicable local disposal regulations for various battery types.
- Never dispose of used batteries with regular household waste.
- Batteries contain toxic substances.



## 10. WARRANTY

### 10.1 WARRANTY ON THE E-FIN 2.0

The e-Fin 2.0 comes with a 24-month manufacturer's warranty that covers defects in workmanship and materials. This warranty does not cover damage resulting from improper use, negligence, or accidents.

If the e-Fin 2.0 exhibits a manufacturing defect within 24 months of shipment, contact [service@jaykay-sport.de](mailto:service@jaykay-sport.de) before returning the product to obtain a return authorization.

### 10.2 WARRANTY ON BATTERIES

The warranty period for the battery is 12 months.

### 10.3 WARRANTY RETURNS

Please keep your shipping box. The warranty does not cover damage incurred during return shipping if the product is inadequately packaged.

# 11. LIABILITY DISCLAIMER

Before using a product from JAYKAY, we strongly recommend that you familiarize yourself with local and country-specific regulations and laws. Ultimately, you are responsible for complying with all applicable laws and regulations, and JAYKAY assumes no liability concerning your use of JAYKAY products.

Version 2.1

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