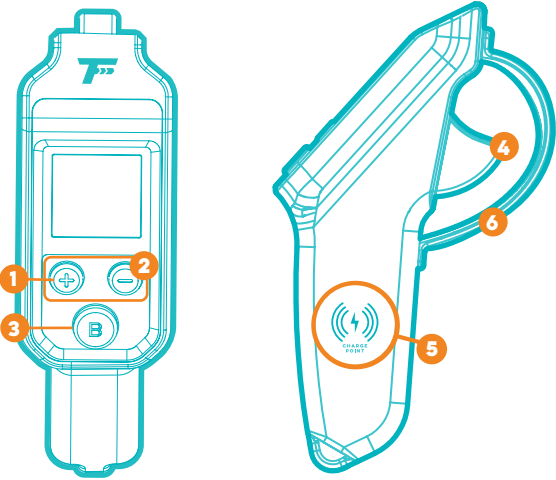


WATERPROOF REMOTE CONTROLLER

User Manual

HVIN:MTFDV3



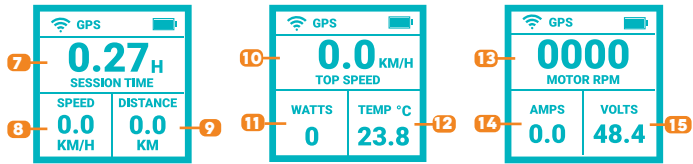
Scan QR Codes for full online articles and walk through videos on each topic OR head to our online Help Centre and Search the key word

- 1. On/Off Button
- 2. Throttle Gears/Navigation
- 3. Boost/Select Button
- 4. Throttle Trigger
- 5. Wireless Charging Point
- 6. Removable Bump Guard



- ON/OFF Hold **+** for 3 seconds
- MANUAL TRIGGER UNLOCK/RELOCK Hold **B** for 2 seconds
- ACCESS THE SETTINGS MENU Press **+** and **-** together
- SCROLL Press **+** to **-** scroll up/down
- SELECTING AN OPTION Press **B** button
- SAVE AND EXIT Hold **-** button
- TOGGLE SCREEN DISPLAY Press **B** button
- ACTIVATE CRUISE CONTROL Hold **-** for 2 seconds and pull trigger above 20%
- ACTIVATE BOOST - GEAR MODE Hold **B** button and pull trigger

- 1. Connection to Device
- 2. GPS Activated
- 3. Controller SoC
- 4. Battery SoC*
- 5. Gear**
- 6. Throttle Percentage***
- 7. Live Session Time
- 8. Live Speed
- 9. Total Session Distance
- 10. Top Session Speed
- 11. System Watts
- 12. Battery Temperature
- 13. Motor RPM
- 14. Current Draw Amps
- 15. Battery Voltage



*State of Charge

**May also read T Indicating you are in Trigger Mode, not Gear Mode.

***May also read Lock. To unlock hold B for 2 seconds.

THROTTLE MODES

Depending on which you find more comfortable, you have the choice of controlling your motor via gears or a throttle trigger. Change modes in settings menu **3. Throttle Mode**.



Scan for Throttle Modes

TRIGGER MODE

Trigger mode allows you to use the full range of throttle (0-100%) via a proportional throttle trigger, meaning the further you pull the trigger in, the more power you get. Trigger mode is great for those wanting more responsiveness from their controller input. Trigger Mode is preset to 100% throttle limit, this limit can be decreased in the setting menu **4. Throttle Mapping**.

GEAR MODE

Gear Mode is a helpful setting for learners or riders using their Foil Drive for efoiling. The throttle is split into levels (Gears 1-5), with each gear offering a different power output. To increase or decrease the gears press **+** or **-**.

- Gear 1-2** Gentle throttle for beginners, getting to your feet and traversing
- Gear 3-4** Balanced power and control for when you are on foil
- Gear 5** Full thrust for take-offs and maximum speed

Each gear has a pre-set throttle % limit, these limits can be adjusted in the menu setting **4. Throttle Mapping**

When you select a gear, it sets a maximum throttle limit (Gear 1 = low power, Gear 5 = high power). The trigger still controls how much of that power you use:

For Example: G1 = maximum throttle limit 55%

If you pull trigger halfway, you will reach approximately half of the gears maximum output. If you fully pull the trigger, you will reach that gears limit.

Safety Note: The Motor only works while the trigger is pressed. If you release the trigger, such as if you fall, the motor will stop.

BOOST MODE



Scan for Boost Mode

Boost is most useful in situations where you need quick acceleration to pop up. This can be used in both Gear Mode and Trigger Mode. When active, boost will engage up to the value you have pre-set in the app.

TO ACTIVATE BOOST

Gear Mode: Pull the **Trigger** to maximum throttle limit **+** press and hold **B** when in any of the gears, Boost Mode will be activated. Using Boost in Gear Mode will allow you to activate your pre-set boost percentage **regardless** of the gear you are in.

Trigger Mode: Boost is activated via trigger control, by pulling the trigger into the 95-100% throttle range.

CRUISE CONTROL

Recommended for advanced riders only.

Cruise control is a great option when you are motoring back out, or needing an assist when paddling, the motor will stay running without having to pull the trigger. **OFF from factory**, to turn it on see menu **10. Cruise Control**.



Scan for Cruise Info

To activate cruise control press and hold **-** while pulling the trigger above 20% throttle.

To change Cruise Control throttle percentage, see settings menu **10. Cruise Control**, we recommend 35%.



Scan for Care Info

CARE & MAINTENANCE

Soak in fresh water after every use to avoid build up of salt or debris. Pull trigger and shake controller to free water from inside.

Spring Broken? The controller has a double coiled spring, one as a fail safe. If one coil components breaks, the second coil will return you to shore, then replace the spring before continued use. Check spring condition regularly and change proactively relative to your volume of use.

LOCK FUNCTIONS

When Locked, the **motor will NOT engage** via the throttle. The screen will read **LOCK** in the throttle window on the main screen.

Note: The controller must be **OFF**, not **Locked**, when touching the motor/propellers, carrying your board, or entering/exiting the water. See full system manual for more on propeller safety.

There are multiple reasons the **LOCK** message may show on your screen:

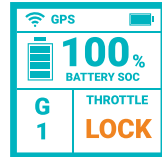
Throttle Lock On Start is activated. The controller will be Locked every time you power on. Press and hold **B** to unlock, or disable in setting menu **8. Lock on Start. ON from factory**, we recommend leaving this on.

Throttle Auto Lock is activated when the motor has not been engaged for a pre-set amount of time. Press and hold **B** to unlock, or disable in setting menu **9. Throttle Auto Lock. OFF from factory**, we recommend a 10 second auto lock for beginners.

Manual Lock is activated. Manual Lock allows you to re-lock the controller at any time, useful when getting back on your board after a fall. Press and hold **B** to unlock, or re-lock.

Tilt Sensor is active. Ensure your board is upright to automatically disable Lock. See the System User Manual for information on the Tilt Sensor.

Note: When Lock is active, the Inactivity and Activity Alarms will still function unless turned off via the App. Scan the QR code to learn more.



Scan for Lock Info

CHARGING THE CONTROLLER

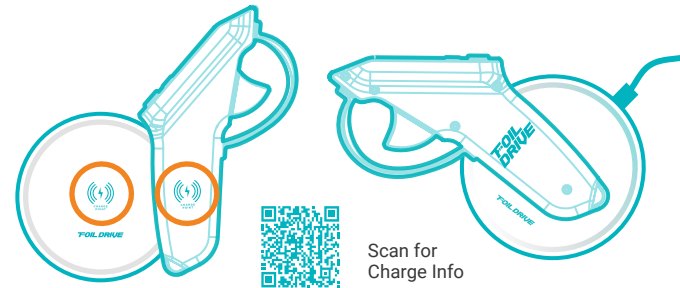
1. Align symbols on controller with charging symbol on the pad **See Below**
2. Ensure the controller is laying flat on the pad
3. When aligned, pad will illuminate blue and controller screen will power on
4. The controller will display 'Charge Complete' when full

Note: Do not leave the controller on charge once charging is complete.

If left on charge, it may damage internal components.

Note: Controller battery runtime will reduce when screen brightness is turned up.

To extend battery runtime, reduce brightness in setting menu 13. Brightness.



Scan for Charge Info

ACCESS THE SETTINGS MENU

SCROLL

SELECTING AN OPTION

SAVE AND EXIT

Press **+** and **-** together

Press **+** to scroll up

Press **-** to scrolling down

Press **B** button

Hold **-** button

UPDATE THE CONTROLLER FIRMWARE
VIA THE FOIL DRIVE APP

SETTINGS MENU

1. PAIR

If the Pair Icon is flashing, the system and controller are not connected. Be mindful of other nearby Foil Drive systems to ensure correct system pairing occurs.

1. Connect your battery **Note:** If flashing persists, follow the steps below
2. With the battery unplugged, enter Pair Menu
3. Follow instructions on controller screen
4. Controller will display "Pairing Complete" when successful
5. Ensure Lock is disabled (Hold **B**) and motor is clear of obstacles
6. Pull the trigger to test motor operation

Note: If testing the motor with **tilt-sensor** active, the board needs to be the upright (as it would be in the water) for your motor to engage.

2. CALIBRATE

If controller does not reach 100% throttle OR does not return to 0%, re-calibrate the triggers. Enter the Calibrate Menu and follow instructions on screen.

If issues persist, internal springs may require inspection.

3. THROTTLE MODE

Select between Gear or Trigger Modes

1. Toggle Gear/Trigger mode with **+** and **-**

4. THROTTLE MAPPING - GEAR AND TRIGGER MODE

If in Trigger Mode skip Step 1.

1. Press **+** or **-** to navigate up and down Gears 1 to 5 (**Gear Mode Only**)
2. Press **B** to begin mapping the throttle limits
3. Press **+** or **-** to cycle through values
4. Press **B** to confirm value

5. BATTERY VOLTAGE

The voltage on your controller **MUST** match the voltage on the battery for correct system data, check this menu when changing battery types.

1. Toggle Battery Voltage options with **+** and **-**

Fusion 43V | MAX 40V | Slim 40V | Slim Endurance 28V
Assist PLUS 28V | Assist 22V

6. GPS (ON/OFF) ON FROM FACTORY

Deactivating will disable live speed/distance information.

7. TILT SENSOR (ON/OFF) ON FROM FACTORY

Fusion Only. Tilt Sensitivity can be programmed in the app.

8. LOCK ON START (ON/OFF) ON FROM FACTORY

Turn on/off Lock on start - Locks when controller powers on.

9. THROTTLE AUTO LOCK OFF FROM FACTORY

Throttle locks after a pre-set period of the trigger not being pulled.

1. Press **B** to edit pre-set Auto Lock time
2. Press **+** or **-** to cycle through values
3. Press **B** to confirm value

10. CRUISE CONTROL OFF FROM FACTORY

1. Press **B** to edit pre-set Auto Lock time
2. Press **+** or **-** to cycle through values
3. Press **B** to confirm value

11. UNITS

Change between Metric and Imperial (Kilometers/Miles, Celcius/Fahrenheit).

12. SCREEN SLEEP ON FROM FACTORY

Screen brightness dims when the controller buttons have not been used for more than 10 seconds. Screen will reactivate when any button/trigger is pressed. Screen Sleep is enabled to extend battery runtime of the controller.

13. BRIGHTNESS

Adjust Screen Brightness. A dimmer screen will extend battery runtime.

14. AUTO POWER OFF OFF FROM FACTORY

Auto Power Off will automatically turn controller off when the buttons have not been used for more than the pre-set time. To adjust:

1. Press **B** to edit the pre-set time
2. Press **+** or **-** to cycle through values
3. Press **B** to confirm value

15. FACTORY RESET

Factory reset restores settings to default. This is a first step if you are having issues with the controller.

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.

ISED Statement

- English: This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

- French: Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux CNR exempts de licence d'Innovation, Sciences et Développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes :

(1) Cet appareil ne doit pas causer d'interférences.

(2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 0cm between the radiator & your body.

Cet équipement est conforme Canada limites d'exposition aux radiations dans un environnement non contrôlé.

Cet équipement doit être installé et utilisé avec une distance minimale de 0 cm entre le radiateur et votre corps.