

# User Manual – v1.0

DINGHYEDITION

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## 1 PREFACE

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As FASTRRR is continuously improving this product, we retain the right to make changes to the product at any time which may not be reflected in this version of the manual. Please contact your nearest distributor or the company directly if you require any further assistance. It is the owner's sole responsibility to install and use the equipment in a manner that will not cause accidents, personal injury or property damage. The user of this product is solely responsible for observing safe boating practices.

FASTRRR INTERNATIONAL KFT. DISCLAIM ALL LIABILITY FOR ANY USE OF THIS PRODUCT IN A WAY THAT MAY CAUSE ACCIDENTS, DAMAGE OR THAT MAY VIOLATE THE LAW.

Governing Language: This statement, any instruction manuals, user guides and other information relating to the product (Documentation) may be translated to, or has been translated from, another language (Translation). In the event of any conflict between any Translation of the Documentation, the English language version of the Documentation will be the official version of the Documentation.

This manual represents the product as at the time of printing. Fastrrr International Kft. reserve the right to make changes to specifications without notice.

## 2 COPYRIGHT

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Copyright © 2020 Fastrrr International Kft.



**Warning:** Due to the wireless communication systems used in Fastrrr instruments they are only recommended for use on boats up to 18 meters (60 ft.) **Before installing to a boat of aluminum or steel construction, please contact our company.** Like any other electronic instruments your Fastrrr system is designed to serve only as an aid to navigation and it remains the skipper's responsibility to maintain a permanent watch and be aware of developing situations.

Any attempt to take a Fastrrr product apart will invalidate the warranty. The battery may only be replaced by a person trained and approved for this purpose.

## 3 WARRANTY

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The warranty card is supplied as a separate document. In case of any queries, refer to the brand website of your instrument or system:

[www.fastrrr.com](http://www.fastrrr.com)

## 4 DECLARATIONS AND CONFORMANCE

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This equipment is intended for use in international waters as coastal sea area administered by countries of the E.U. and E.E.A.

The *DinghyEdition* system complies with the following regulations:

- CE under EMC directive 2004/108/EC
- Level 2 devices of the Radio communications (Electromagnetic Compatibility) standard 2008

## 5 INTRODUCTION

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### 5.1 ABOUT THIS MANUAL

This manual is a reference guide for operating the *Fastrrr DinghyEdition* instrument system. It assumes that all equipment is installed correctly, and that the system is ready to use. The manual assumes that the user has basic knowledge of navigation, nautical terminology, and practices.

Important text that requires special attention from the reader is emphasized as follows:

**Note:** Used to draw the reader's attention to a comment or some important information.



**Warning:** Used when it is necessary to warn personnel that they should proceed carefully to prevent risk of injury and/or damage to equipment/personnel.

## 6 PRODUCT OVERVIEW

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### 6.1 INTRODUCTION

Congratulations, you are the owner of a brand new *DinghyEdition*, sailing telemetry system.

It is a marine instrument and data recording device that suitable for recording telemetry data on small or large boat. The data is recorded on a memory card so that after the workout or competition, the user can upload it to their own storage space using the mobile app for further analysis.

*DinghyEdition's* web-browser interface lets you connect your PC or tablet to the network for setup, calibration, and control of every part of your *DinghyEdition* system. It utilizes a familiar web browser interface to allow quick calibration of instruments, easy setup of displays and configuration of features. You can also access online product manuals, data backups and network diagnostics.

### 6.2 FEATURES

- 10 Hz refresh rate GPS
- 10Hz refresh rate IMU sensor.
- Over 8 hours of battery life
- Data download over-the-air
- Automatic magnetic declination
- Waterproof (IPX8) to 3m
- Two-year warranty

### 6.3 INCLUDED ITEMS

The package consists of the following items:

- *DinghyEdition* instrument
- MicroSd card – 4 Gb (pre-installed)
- USB, Mini-B charging cable
- USB wall charger
- Inspection hatch cover (diameter: 138 mm)
- 4 pc, M4x30 socket head screw
- User manual

## 7 INSTALLATION

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**Warning:** The *DinghyEdition* must be mounted within 20 degrees of the vertical to permit correct functioning of the integrated compass sensor.

The instrument can be mounted in the inspection hatch on the Finn Dinghy hull, after the mast. The existing inspection hatch cover must first be unscrewed and then simply replaced by the new one.

Prior to installation, it is necessary to fasten the instrument to the hatch with the four pieces of included screws.



*Install behind the mast.*

The *DinghyEdition* can be installed anywhere on the boat with a view of the sky. The *DinghyEdition* comes with a Quadlock adapter that interlocks with it. Install the *Quadlock Adhesive Mount* permanently on your boat. Twist the instrument on the adapter to unlock the *DinghyEdition* from it. Several mounting options are available.

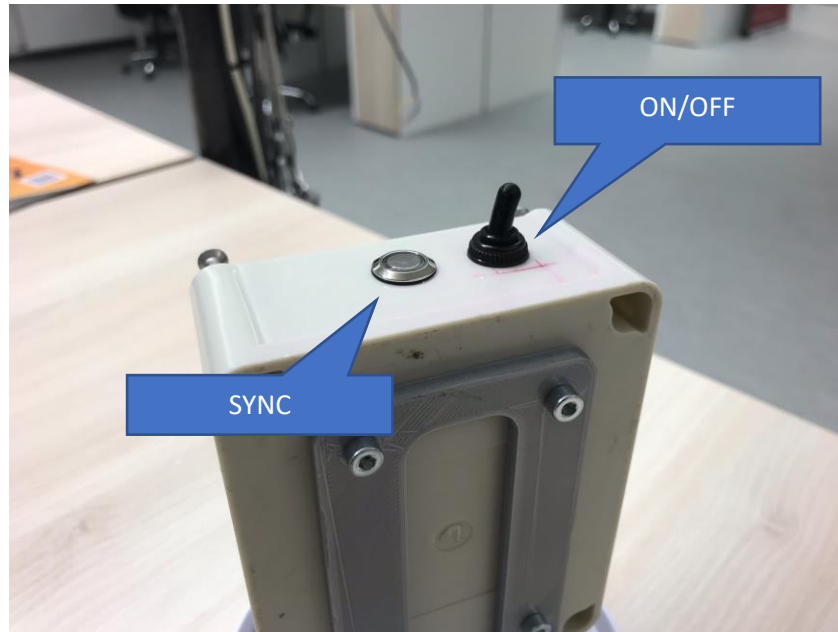
For details, go to the website.

[www.fastrrr.com](http://www.fastrrr.com)

## 8 OPERATION

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### 8.1 INTERFACES



**ON/OFF:** Flip the On/Off switch to turn on your DinghyEdition instrument and start the data recording.

**SYNC:**

### 8.2 SETUP AND CALIBRATION

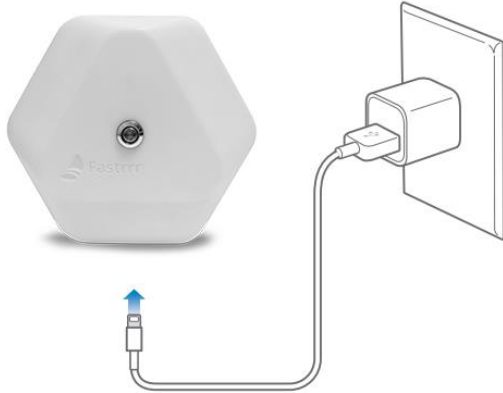
### 8.3 CHARGING



**Warning:** Do not attempt to replace the *DinghyEdition* battery yourself—you may damage the battery, which could cause overheating and injury. The lithium-ion battery in *DinghyEdition* should be replaced only by authorized partner and must be recycled or disposed of separately from household waste. Do not incinerate the battery.

*DinghyEdition* has an internal, lithium-ion rechargeable battery.

**Charge the battery.** First remove the top cover, then connect the instrument to a power outlet using the included cable and USB power adapter.



The LED show the charging status.

**Yellow:** charging

**Green:** fully charged

Rechargeable batteries have a limited number of charge cycles and may eventually need to be replaced. The *DinghyEdition* battery is not user replaceable; it can be replaced only by an authorized service provider.

## 8.4 SYNC TRACKS

### 8.4.1 Memory card reader

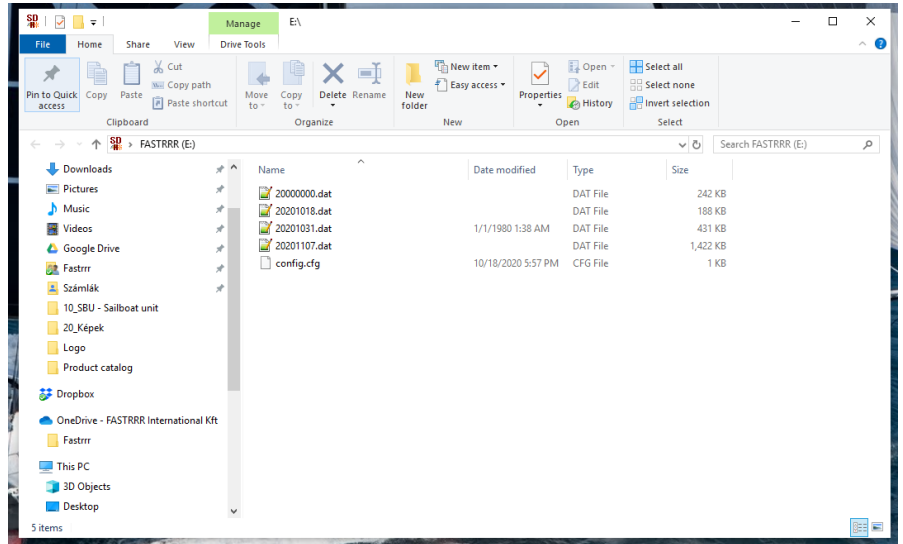
The logs are stored in micro SD card.

- Turn off the instrument
- Unscrew the four countersunk head screw
- Remove the micro SD card for the holder
- Each “.dat” file are represent a sailing day. File name is a date in *yymmdd* format.





SD card



SD card files

#### 8.4.2 Download over the air

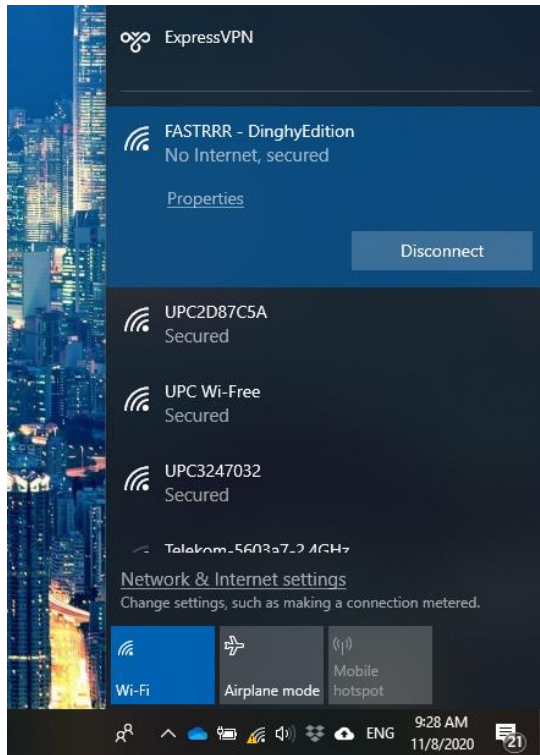
The *DinghyEdition* webserver is an easy to use web-style portal that lets you calibrate instruments, configure, and download the tracks.

- Turn on the DinghyEdition instrument
- Connect wireless devices to the instrument via a WiFi
- Open web browser on the connected computer or device.
- Type the IP address [ 192.168.4.1 ] into the web browser address bar
- Once connected correctly the FASTRRR *DinghyEdition* Webserver home screen will appear.

**Note:** Wifi SSID: "FASTRRR – DinghyEdition" Pass: " 12345678"

- Go to "Directory" menu, chose a tract that you want to download. Copy its name.
- Go to "Download" menu then paste the name of the file into the text field. Press enter.

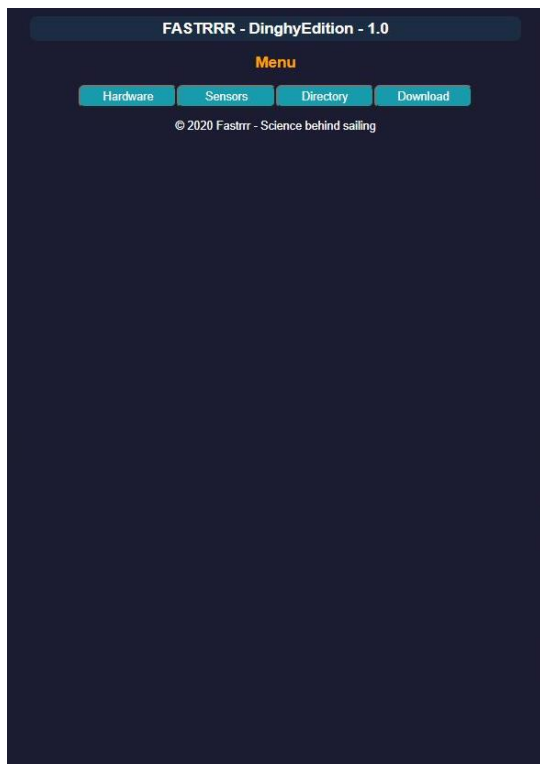
**Note:** Type the "/" character before the filename.



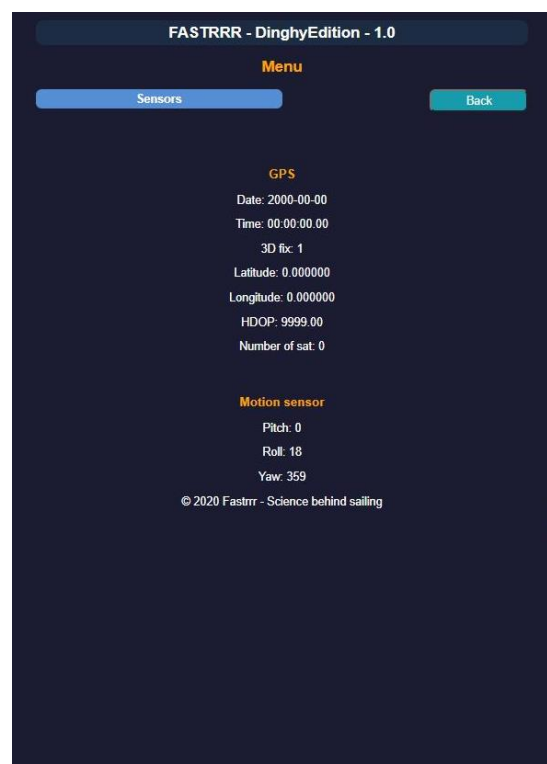
1 -Wifi connection



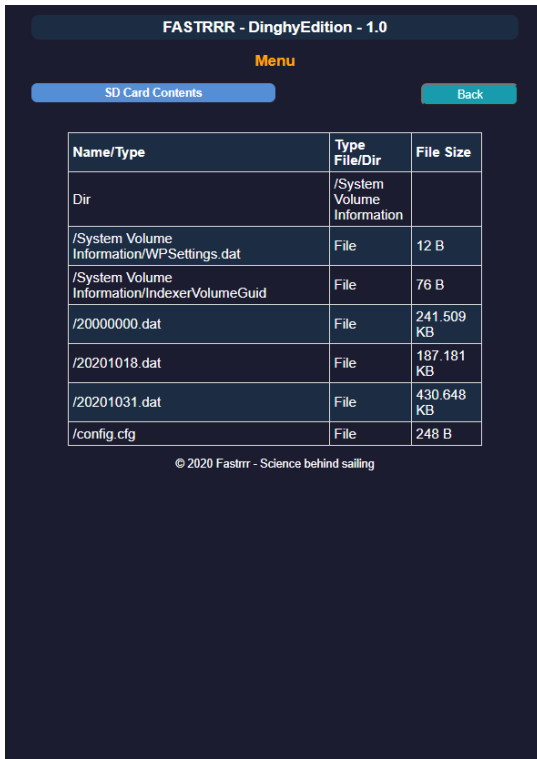
3 – Hardware settings



2 – Home screen



4 – Sensor data



5 - List memory card content



6 – Download page

## 9 TECHNICAL SPECIFICATION

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### 9.1 SPECIFICATION

#### 9.1.1 Embedded sensors

<b>GPS networks</b>	multi-GNSS (GPS/QZSS, GLONASS and BeiDou)
<b>GPS accuracy</b>	2.5 m CEP
<b>GPS Frequency</b>	10 Hz
<b>Inertial Measurement Unit</b>	9 axis, 1kHz
<b>Compass</b>	3 axis magnetometer, compensated with 3 gyroscopes

#### 9.1.2 Processing Characteristics

<b>Processing</b>	Xtensa dual-core 32-bit LX6 microprocessor, operating at 240 MHz
<b>Logging storage</b>	8GB

#### 9.1.3 Connections

<b>Wireless</b>	Wifi, Bluetooth 4.0
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#### 9.1.4 Physical Characteristics

<b>Size</b>	140x80x75 mm
<b>Weight</b>	450g

#### 9.1.5 Electrical Characteristics

<b>Supply voltage</b>	5 V DC
<b>Battery rated capacity</b>	3900 mAh / 14.82 Wh
<b>Runtime on single charge</b>	8-14 hrs

### 9.2 FIRMWARE UPDATE

Firmware is the software that runs on the *DinghyEdition*. The *DinghyEdition* firmware is stable and no features or performance will be added to your device through a firmware update. We only release new firmware versions when we are forced to do so by a minor hardware change. Please do not update the firmware unless you are directed to do so by Fastrrr technical support.

### 9.3 SOFTWARE

In this case, after switching on the device, a so-called web server starts up to 60s. This solution is a common practice for other products as well. To any device capable of wifi connection, our product is automatically connected by scanning the QR code, and the data of the device can be accessed from any web browser.

After 60 seconds and if there is no active connection, the device It switches to “ broadcast ” mode and broadcasts the data to the smartphone application.

## 9.4 MAINTENANCE

To ensure your *DinghyEdition* enclosure remains watertight and the electronics are not destroyed by corrosion, please take the following precautions:

- Dry case with a towel before opening.
- Wipe away sand or debris on the gasket before closing the back case.
- Once the case is open wipe away any loose water droplets.
- If you ever see signs that water is leaking inside the enclosure, please contact Fastrrr immediately at [support@fastrrr.com](mailto:support@fastrrr.com) to arrange for your device to be repaired and made watertight again.

## 10 WARRANTY INFORMATION

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### 10.1 GENERAL

All Fastrrr products are designed and built to standards suitable for use in a harsh marine environment. If the products are installed correctly and operated as described in the user guides, they will provide long and reliable service. For information and assistance, visit our website

[www.fastrrr.com](http://www.fastrrr.com)

### 10.2 LIMITED WARRANTY

The warranty covers repair or replacement of parts due to faulty manufacturing. The warranty period is two years from the date of purchase. Fastrrr specifically exclude the implied warranty of merchantability and fitness for a particular purpose.

### 10.3 CONDITIONS

- A receipt with proof of purchase date must be shown to validate any warranty claim.
- The warranty is extended only to the original purchaser and is nontransferable.
- Products that have been incorrectly installed or have serial numbers removed will not be covered.
- No compensation is payable for consequential damage caused directly or indirectly by any malfunction of Fastrrr products.
- Fastrrr is not liable for any personal damage caused as a consequence of using its equipment.
- Fastrrr, its distributors or dealers are not liable for charges arising from sea trials, installation surveys or visits to the boat to attend to the product whether under warranty or not.
- Fastrrr reserves the right to replace any products deemed faulty, within the warranty period, with the nearest equivalent.
- The terms and conditions of this warranty do not affect your statutory rights.

### 10.4 CLAIMS PROCEDURE

Product should be returned to the company or to the national distributor, or one of its appointed dealers, in the country where it was originally purchased. Valid claims will then be serviced and returned to the sender free of charge. Distributors reserve the right to charge for exceptional or express carriage if requested.

## 10.5 DISCLAIMER

Fastrrr products should only be considered an aid to navigation and common sense must be applied at all time when navigating at sea. Fastrrr reserves the right to change product specification without notice to comply with its policy of continuous improvement.

## 10.6 CONTACT

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Website:

<http://www.fastrrr.com>

Support:

<http://www.fastrrr.com/support>



**Fastrrr**

**FASTRRR - DinghyEdition**

**User manual English version 1.0**

**07/11/2021**