



## In motion IN & BOX Airbag System Detection Device User Manual

[Home](#) » [In motion](#) » In motion IN & BOX Airbag System Detection Device User Manual 

## Contents

- 1 In motion IN & BOX Airbag System Detection Device
- 2 CONTENTS
- 3 IN&BOX BASICS
- 4 GENERAL PRESENTATION
  - 4.1 ACQUIRE AN AIRBAG SYSTEM
  - 4.2 IN&MOTION MEMBERSHIP AND FORMULAS
  - 4.3 ACTIVATE YOUR SYSTEM
- 5 IN&BOX OPERATION
  - 5.1 CHARGE THE IN&BOX
  - 5.2 TURN ON YOUR IN&BOX
  - 5.3 IN&BOX FUNCTIONS
  - 5.4 LIGHTING CODE
  - 5.5 Airbag Not Functional
- 6 MOBILE APP
  - 6.1 GENERAL
  - 6.2 UPDATES
  - 6.3 SYNCHRONIZATION AND WI-FI ACCESS POINT
  - 6.4 EMERGENCY CALL BY LIBERTY RIDER
- 7 AIRBAG SYSTEM
  - 7.1 INSERT YOUR IN&BOX INTO THE SHELL
  - 7.2 WEAR YOUR AIRBAG PRODUCT
  - 7.3 AFTER-INFLATION PROCESS
- 8 TECHNICAL INFORMATION
  - 8.1 CHARGING
  - 8.2 TECHNICAL CHARACTERISTICS
- 9 CERTIFICATIONS
- 10 WARNINGS
  - 10.1 IN&MOTION AIRBAG SYSTEM USE
  - 10.2 WARRANTY
  - 10.3 DETECTION CONDITIONS
- 11 Documents / Resources
- 12 Related Posts



**In motion IN & BOX Airbag System Detection Device**

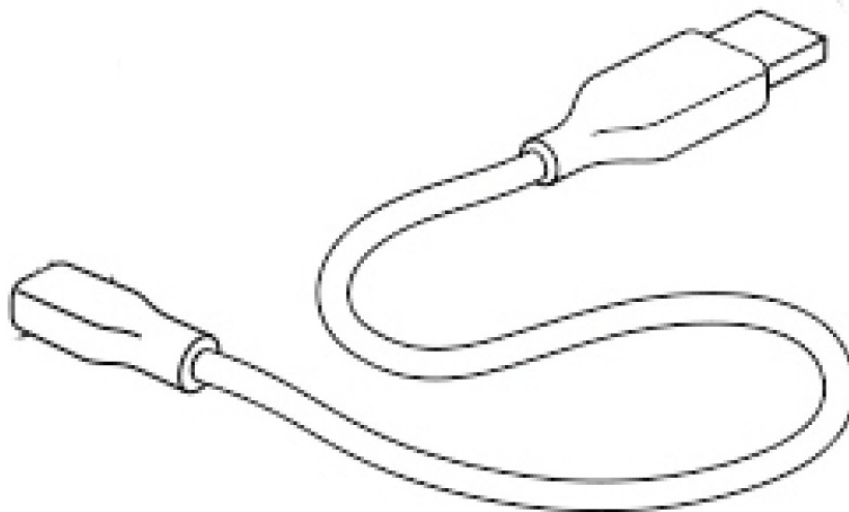


## CONTENTS

- **IN&BOX:** IN&MOTION airbag system detection and triggering device containing the sensors and battery



- **Standard USB Cable**

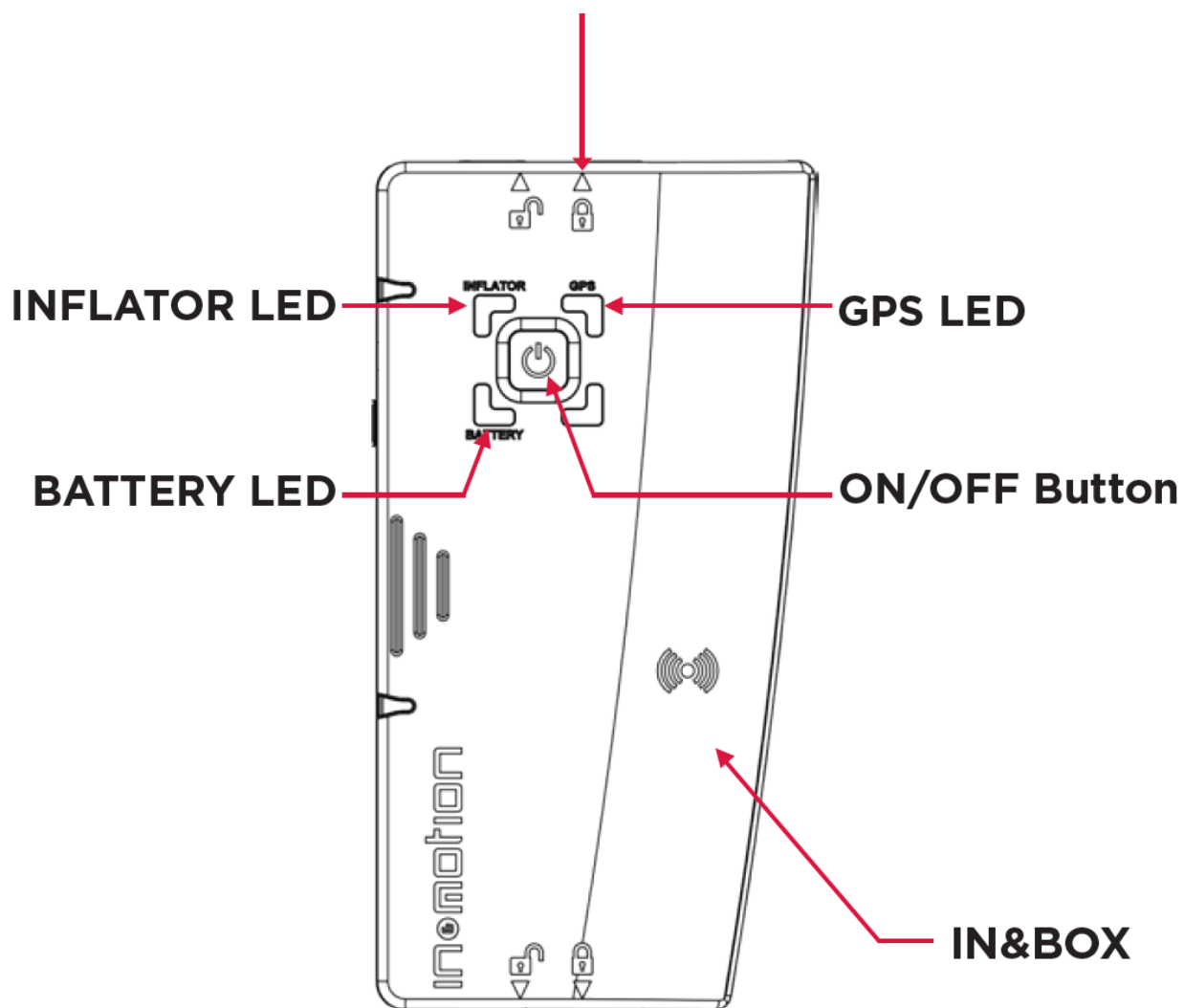


- **In&box User Manual:** The user manual dedicated to the airbag system is supplied with the product integrating the IN&MOTION airbag system.

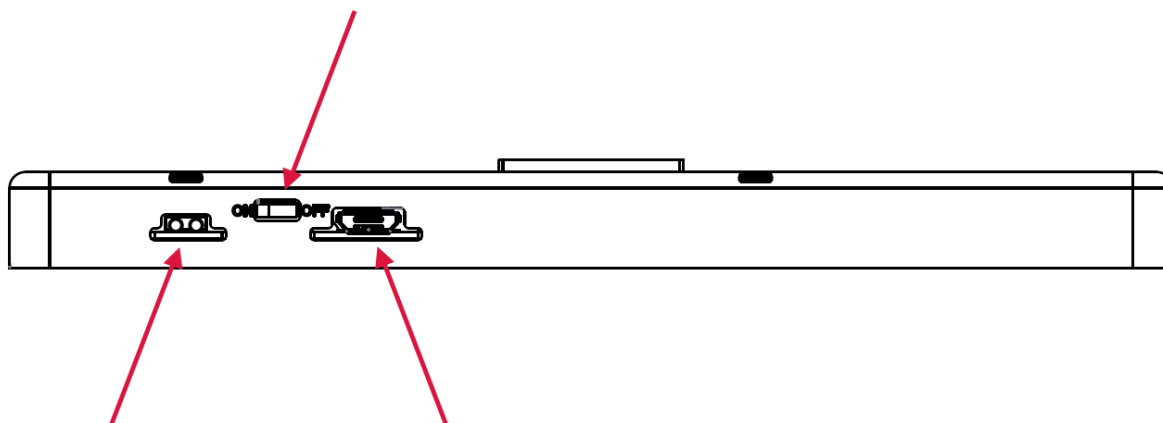
## IN&BOX BASICS

### MARKS

(indicating the correct insertion into the airbag product)



ON/OFF Switch button



Inflator port

Micro USB port

## GENERAL PRESENTATION

### ACQUIRE AN AIRBAG SYSTEM

To acquire a product integrating the IN&MOTION airbag system, follow these steps:

1. Buy the product integrating the IN&MOTION airbag system from a reseller. The In&box is delivered with the product.
2. Subscribe to a formula (lease or purchase) on the section Membership of [www.inemotion.com](http://www.inemotion.com) website.  
The In&box will be active for 48 hours from the first use. After this time, the In&box is blocked and requires activation on [www.inemotion.com](http://www.inemotion.com)
3. Activate your In&box. Once activated, the In&box is ready to be used all over the world for the entire duration of the offer selected.

### IN&MOTION MEMBERSHIP AND FORMULAS

For any question regarding the IN&MOTION membership or subscription to a formula, please refer to our website [www.inemotion.com](http://www.inemotion.com) and to the general terms of sale and lease available during the subscription process or on our website.

### ACTIVATE YOUR SYSTEM

Watch our tutorial video on our Youtube channel to learn more about the activation procedure :  
<http://bit.ly/InemotionTuto>

For the first use only, activate your In&box and subscribe to an IN&MOTION membership:

1. Go to the Membership section of the [www.inemotion.com](http://www.inemotion.com) website
2. Create your user account.
3. Activate your IN&MOTION subscription: choose your formula and payment method.
4. Download the mobile app «**My In&box**»\* (available for iOS and Android).
5. Pair your In&box to your user account by following the mobile app instructions:
  - Connect to the mobile app thanks to the user account you created earlier.
  - Turn on your In&box and activate Bluetooth® on your phone.
  - Scan or enter your airbag product's Serial Number (SN) located on the label inside your airbag product.

- The pairing process starts: follow the instructions on the app.

6. Your In&box is ready to be used!

Once activated, the In&box is autonomous and does not need to be connected to the mobile app to be functional. For more information regarding the «**My In&box**» mobile app, please refer to the «**Mobile app**» section of this manual.

\* Your mobile phone must be compatible with BLE (Bluetooth® Low Energy) in order to pair your In&box.

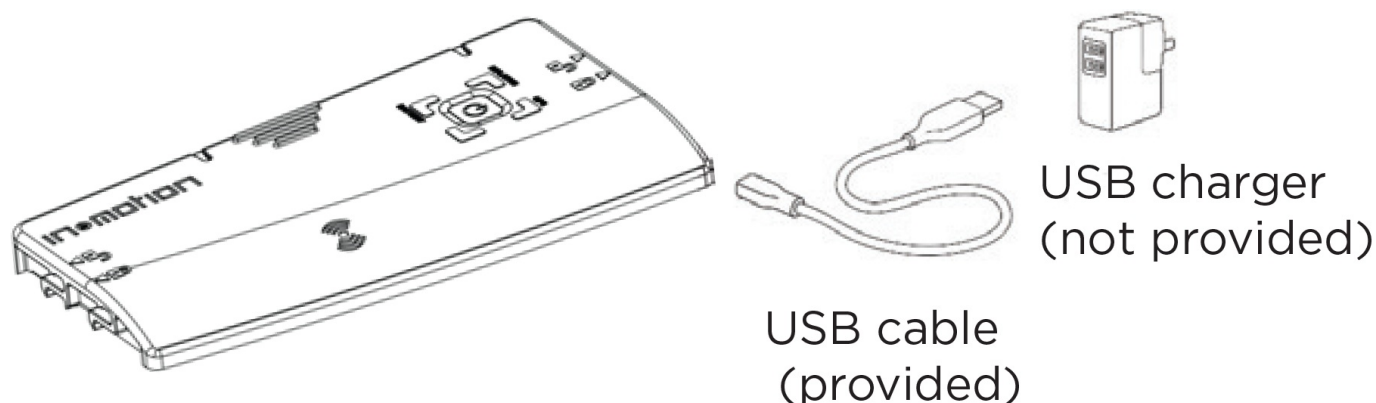
Check the list of compatible phones in the “Mobile App” section of this manual. If you don’t have a compatible phone, please follow the manual activation procedure available on your user area on the [www.inemotion.com](http://www.inemotion.com) website.

\*\* The mobile app is however necessary to change your detection mode and benefit from the Emergency call by Liberty Rider.

## IN&BOX OPERATION

### CHARGE THE IN&BOX

Connect the In&box to a USB cable and plug into a charger (not provided). For recommendations regarding the USB charger (not supplied), please refer to the “Charging” section of this manual.



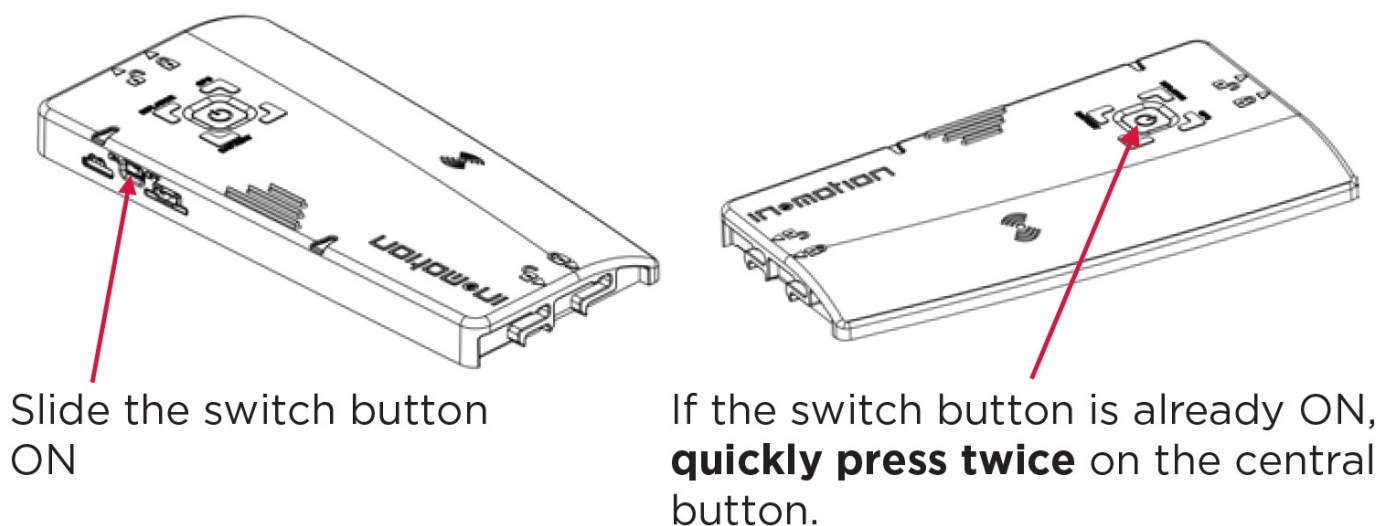
In&box battery duration is approximately 25 hours in continuous use.

This corresponds to approximately 1 week of autonomy in normal use (daily commute\*).

IN&MOTION recommends switching off your In&box with the central button when it is not being used for several consecutive days.

\* Around 2h riding per day and “automatic standby” function the rest of the day.

### TURN ON YOUR IN&BOX



## IN&BOX FUNCTIONS

The In&box has three different functions:

### 1. Activation Using the ON/OFF Switch Button

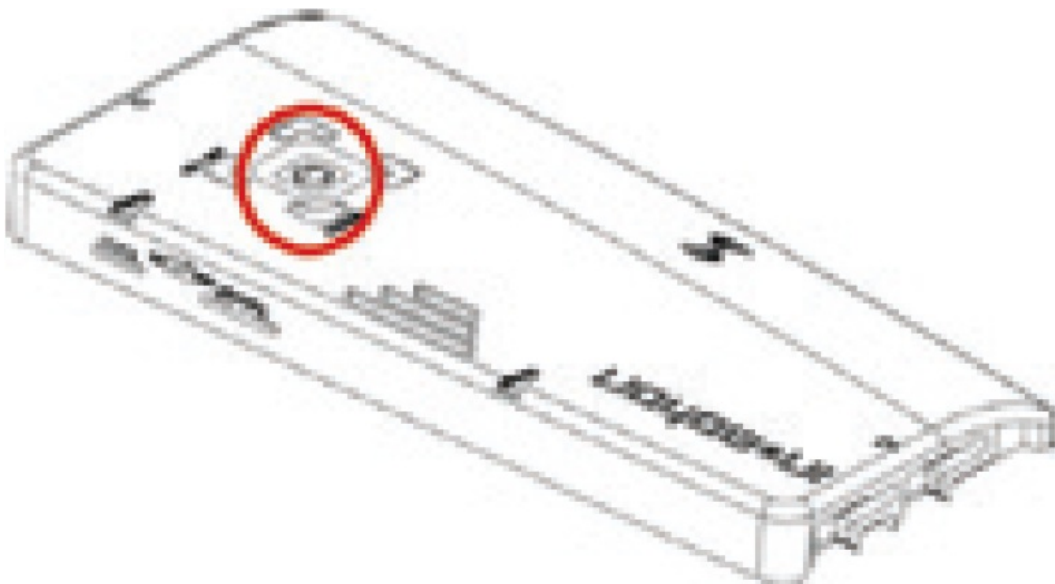
You can use the button located on the left side of your In&box to turn it on for the first use only. Make sure to slide the button to ON before the first use. **Don't turn the In&box off using this left side button without double clicking to switch it off before. Never turn off your In&box by the side switch button during an update (upper LEDs blinking blue).**



### 2. Press Central Button Twice Quickly

Once the In&box is turned on using the switch button, you will just have to double click quickly on the central button to turn your In&box on and off without removing your In&box from its position.

**Make sure to turn your In&box off when using any other transportation.**



### 3. Automatic Standby Function

Thanks to this function, your In&box will switch to standby function automatically if it remains motionless for more than 5 minutes. When the In&box detects motion, it turns on automatically eliminating the need to turn it on or off! However, the In&box must be placed on a completely motionless stand.

**Make sure to turn your In&box off when using any other transportation car, bus, airplane, train or using a motorcycle but not wearing the airbag system).**

## LIGHTING CODE

Below is a list of different LED colours that you may see on your In&box.

Warning, this lighting code can change and evolve over time depending on the usage.  
In order to be aware of the latest evolutions, please refer to our website [www.inemotion.com](http://www.inemotion.com)

## LED INFLATOR (IN&BOX IN AIRBAG PRODUCT)

- **Solid Green:**

Inflator full and connected (airbag functional)



- **Solid Red:**

Inflator not connected (airbag not functional)



- **No Light:**

In&box off (airbag not functional)



## GPS LEDS



- **Solid Green:**

GPS active (after a few minutes outside)



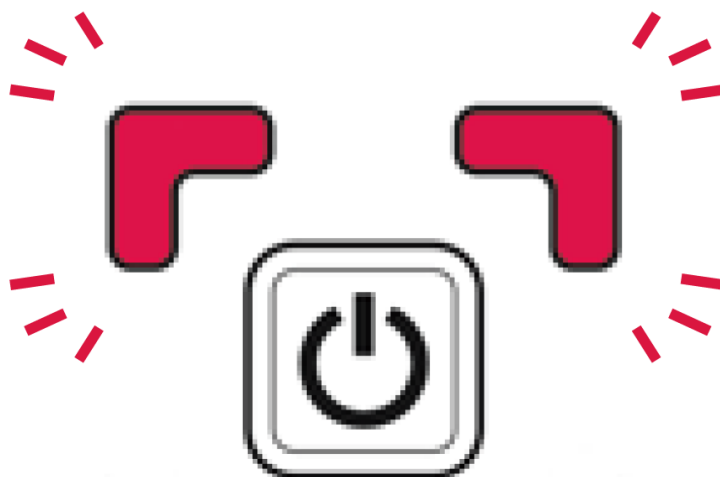
- **No Light:**

GPS inactive\*



\* The airbag system is functional but may not work in specific accident cases

## INFLATOR AND GPS LEDS



When the two upper LEDs are flashing red:

**Airbag Not Functional**

- Check your IN&MOTION subscription
- Connect your In&box to Wi-Fi or to your mobile app
- Contact IN&MOTION if the problem continues

Please note, if your monthly membership is suspended, your In&box will no longer be active during the entire suspension period.

- **Solid Blue or Flashing Blue:**

In&box synchronizing or updating.

Never turn off your In&box by the side switch button when the LEDs are blue as it could disrupt the update process with risks for the In&box software!



## BATTERY LED

- **Solid Red:**

Less than 30% battery (about 5 hours of usage time remaining)



- **Flashing Red:**

Less than 5% battery (flashing red light)

**Charge your In&box!**



- **No light:**

Battery charged (30 to 99%) or In&box off.



- **Solid Blue:**

Battery charging (In&box plugged in)



- **Solid Green:**

Battery charged to 100% (In&box plugged in)



## MOBILE APP

### GENERAL

The mobile app «**My In&box**» is available on Google Play and App Store.

For the first use only, connect to the app using the login and password created earlier when creating your user account. Once activated, the In&box is autonomous and does not need to be connected to the mobile app to be functional.\*

\*The mobile app is though necessary to change your detection mode and to benefit from the Emergency call by Liberty Rider.

**This app is currently only compatible with the following mobile phones:**

- iOS® : refer to the AppStore application sheet
- Android™ : refer to the Google Play Store application sheet
- Compatible Bluetooth Low Energy chip

### UPDATES

It is essential to regularly update your In & box with the latest version in order to benefit from the best possible protection.

Regularly connecting your In&box to your Wi-Fi access point is really important in order to always benefit from the latest updates.

It is essential to connect at least once a year for yearly subscriptions and once a month for monthly subscriptions. If not, the In&box will be automatically blocked and will no longer work until the next connection.

Updates can be downloaded to the In&box in two ways:

#### 1. «**My In&box**» Mobile App (from “Galibier-5.3.0” Software Version)

Connect to IN&MOTION's «**My In&box**» mobile app and follow the instructions on the app. The In&box must be turned on, unplugged and not inserted into the airbag system.

#### 2. Wi-Fi Access Point

Please refer to the next section.

## SYNCHRONIZATION AND WI-FI ACCESS POINT

From the first use, configure your Wi-Fi access point using the mobile app «**My In&box**».

Once configured, your In&box will automatically connect to your **Wi-Fi access point** as soon as it is plugged in, switched on and charging from a wall outlet within range of your Wi-Fi network. The latest updates will download automatically and will synchronize your data anonymously.

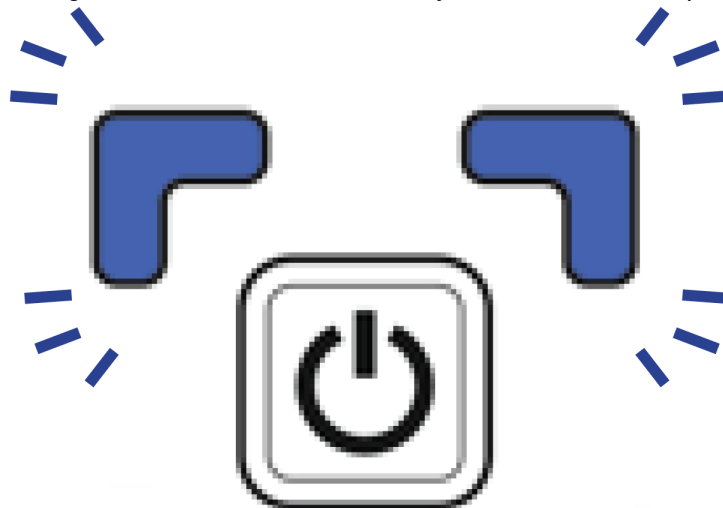
Warning, your In&box must be turned on in order to connect to Wi-Fi.

The IN&MOTION detection system evolves thanks to the anonymous data collection of users. Data synchronization is therefore an important step in order to continuously evolve the system.

The two upper LEDs are blinking blue **alternately**: the In&box is seeking for a connection to your Wi-Fi access point.



The two upper LEDs are blinking blue **at the same time**: the synchronization and updating process is in progress.



Warning, do not use the side switch button to turn the In&box off when the LEDs are blue!

#### **Compatible Wi-Fi access points:**

Wi-Fi b/g/n with WPA/WPA2/WEP protection. WEP and 2.4 GHz network bandwidth

For more information, you can watch our In&box activation, Wi-Fi configuration and update tutorial video on our IN&MOTION Youtube channel: <http://bit.ly/InemotionTuto>

If you don't have a compatible phone, please follow the manual Wi-Fi configuration procedure available on your user area on the [www.inemotion.com](http://www.inemotion.com) website

#### **EMERGENCY CALL BY LIBERTY RIDER**

From the software version "Saint-Bernard-5.4.0" of the In&box, the «**Emergency call by Liberty Rider**» feature is available for all French and Belgian users.

It allows the «**My In&box**» application to alert the emergency services in the event of the triggering of the IN&MOTION airbag system.

In order to activate the feature, please follow the instructions of the «**My In&box**» mobile app.

The «**Emergency call by Liberty Rider**» feature can be deactivated at any time by simply clicking on the

corresponding tab. In this case, the call for help will not work in the event of an accident.

This service can only be used in the following countries: France & DOM TOM, Portugal, Spain, Italy, Austria, Germany, Luxembourg, Belgium, Netherlands and Switzerland.

For more details on this feature, please refer to the Terms of Use of the «My In&box» mobile application or to the «Support» section of the website [www.inemotion.com](http://www.inemotion.com)

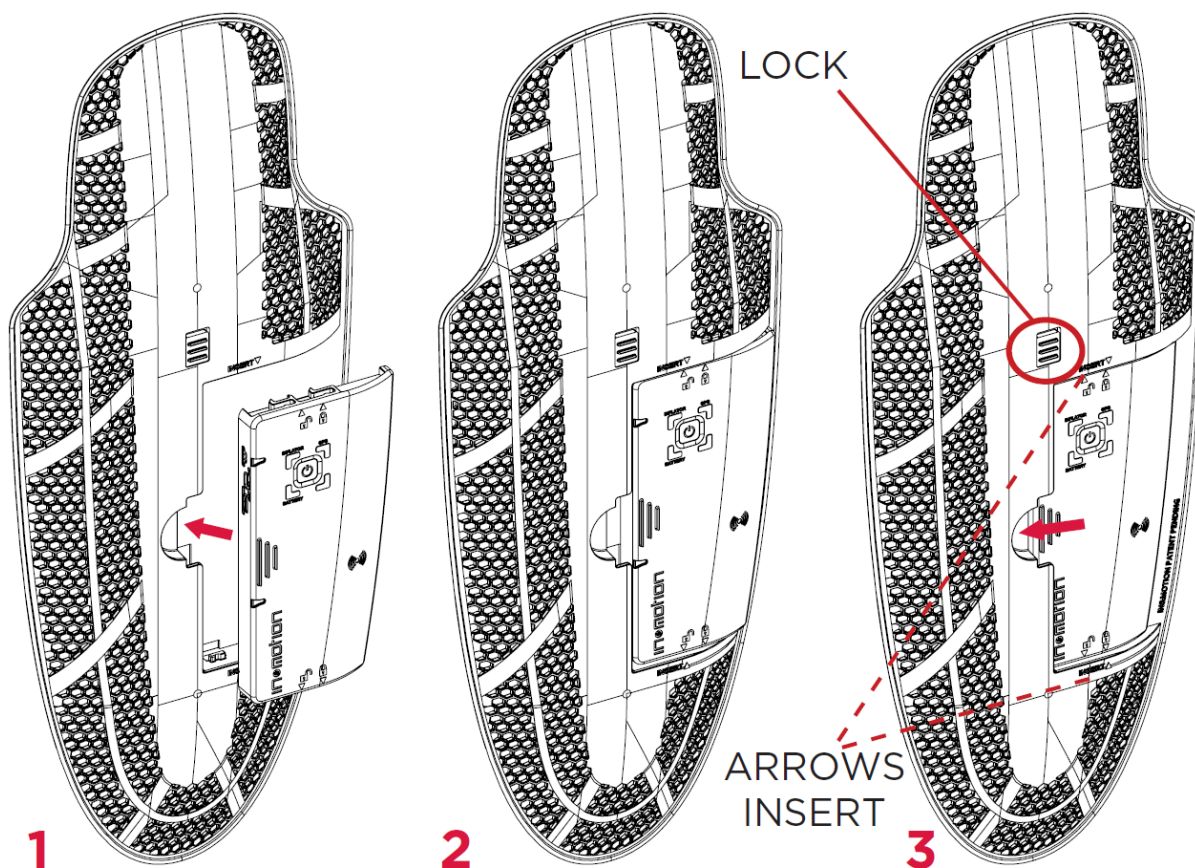
## AIRBAG SYSTEM

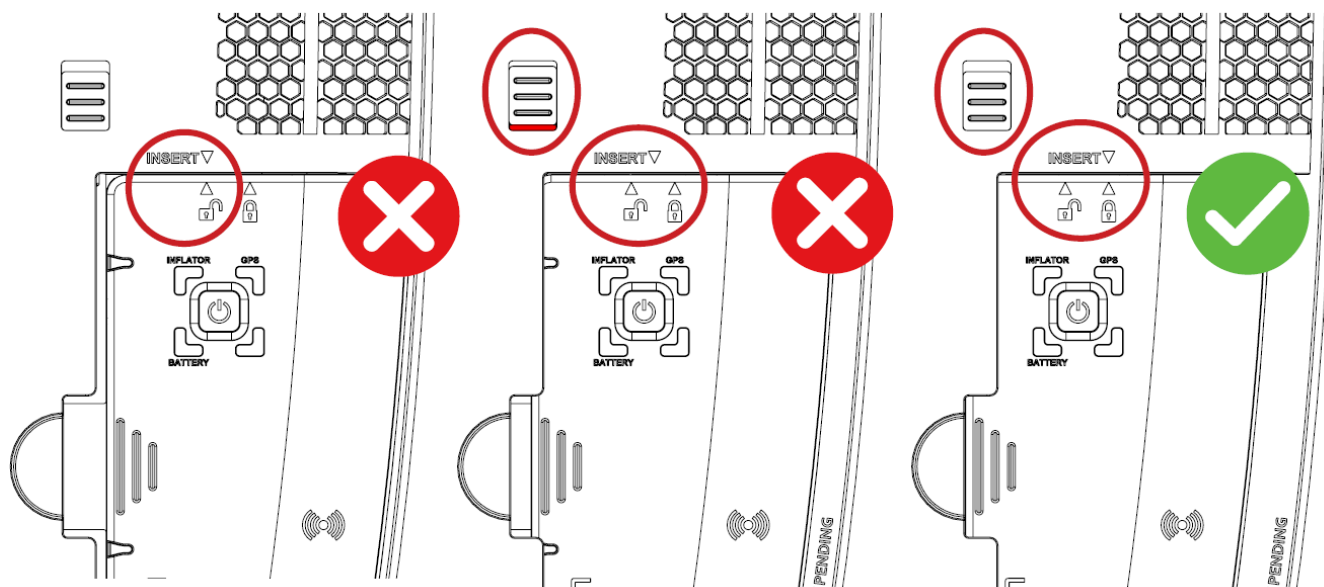
### INSERT YOUR IN&BOX INTO THE SHELL

1. Place the In&box into position.
2. The arrows indicated on the In&box **lock open** (up and down) must be aligned with the INSERT arrows indicated on the shell.
3. Using the lock, push the In&box to the left side to clip it into place.

The arrows indicated on the In&box **lock closed** must be aligned with the INSERT arrows indicated on the shell.

Warning, make sure the red locked marking is not visible.





**In&box incorrectly inserted**

**In&box well inserted**

## WEAR YOUR AIRBAG PRODUCT

To obtain the specifications related to your IN&MOTION airbag system, please refer to the user manual provided with your product integrating the IN&MOTION airbag system.

## AFTER-INFLATION PROCESS

If inflation is needed, the procedure for checking and reactivating your airbag system is available in the user manual provided with the product integrating the IN&MOTION airbag system.

You will also find this procedure on our tutorial video available on our Youtube channel:

<http://bit.ly/InemotionTuto> as well as in the mobile app «My In&box».

In case of damage or anomaly during the after-inflation process, do not use your airbag product and contact your local reseller.

## TECHNICAL INFORMATION

### CHARGING

- **Electrical Characteristics:**

Input: 5V, 2A

- **Compatible Charger:**

Use a EN60950-1 or 62368-1 compliant USB charger.

- **Altitude Restrictions:**

Above 2000 metres high, make sure that your charger is approved for this altitude before charging your In&box.

- **Battery Replacement:**

Do not try to replace the In&box battery by yourself, you could damage the battery, which may in turn lead to overheating, fire and injury. Your In&box Li-polymer battery must be replaced or recycled by IN&MOTION: it must be recycled or scrapped separately from general household waste and in accordance with your local laws and regulation.

- **Charging Time:**

In optimal conditions, the time to charge the battery completely is about 3 hours.

## **TECHNICAL CHARACTERISTICS**

- Operating temperature: from -20 to 55°C
- Charging temperature: from 0 to 40°C
- Storage temperature: from -20 to 30°C
- Relative humidity: from 45 to 75%
- Altitude: use below 5000 metres

When used outside of those limits, the system may not work as intended.

## **RF Power**

- In charge : 2.4GHz-2.472GHz (< 50mW)
- 2.4GHz-2.483GHz (<10mW)
- Out of charge: 2.4GHz-2.483GHz (<10mW)

## **GPS Reception Frequencies**

- 1565.42 – 1585.42MHz (GPS)
- 1602 – 1610 MHz (GNSS)

## **In&box Waterproofness:**

Excessive exposure to water will cause the vest to dysfunction. The In&box can be used in rainy weather provided that it is inserted into the product integrating the IN&MOTION airbag system and worn under a waterproof motorcycle jacket.

A refreshing vest can be worn under the product integrating the airbag system.

**Warning, it has not been designed to be submerged.**

## **Patent:**

This system is protected by patent number: «**U.S. Pat. 10,524,521**»

## **CERTIFICATIONS**

IN&MOTION declares that the In&box complies with the essential requirements and other relevant provisions of the RED directives (Radio Equipment Directive) 2014/53/EU and RoHS 2011/65/EU.

A copy of the Declaration of Conformity for the European Union is available at the following address:

[https://my.inemotion.com/documents/moto/declaration\\_of\\_conformity.pdf?v=1545323397](https://my.inemotion.com/documents/moto/declaration_of_conformity.pdf?v=1545323397)

## **WARNINGS**

### **IN&MOTION AIRBAG SYSTEM USE**

The IN&MOTION airbag system is a new, intelligent device that must be used only for the application to which it is dedicated, depending on the detection mode dedicated to this practice.

This system is designed to offer comfort and high protection, though no product or protection system can offer complete protection from injury or damage to individuals or property in case of fall, collision, impact, loss of



control or otherwise.

**The use of this product must not encourage the user to overpass speed limits or to take additional risks. Modifications or incorrect use may critically reduce the system's performance.** Only the parts of the body covered by the protection are protected against impact. The IN&MOTION airbag system cannot never be considered as a substitute for protective equipment such as helmets, goggles, gloves, or any other protection device.

## WARRANTY

IN&MOTION guarantees that the In&box material and workmanship is free of manufacturing defects upon delivery to our dealers or customers.

To the fullest extent permitted by applicable law, the In&box is provided to our dealers or customers "as is" and "as available", with all faults, and, except as expressly provided for in this manual, IN&MOTION hereby disclaims all warranties of any kind, whether express, implied, statutory or otherwise, including without limitation warranties of merchantability, fitness for a particular use, and satisfactory quality.

Any warranty required by applicable law is limited to 2 years from the date of purchase (for In&box acquisitions) and applies only to the original user.

For In&box leases, a dedicated customer service representative is available allowing In&box exchanges if the problem cannot be solved remotely. This warranty is limited to the original user.

The In&box is personal and cannot be lent or sold.

This warranty does not apply in the event of abuse, negligence, carelessness or modification, improper transport or storage, improper installation and/or adjustment, misuse, or if the airbag system is used in any way other than is intended and not in compliance with the present manual.

**Do not dismantle or open the In&box. Do not place the In&box under water. Do not bring the In&box close to a source of heat. Do not put the In&box in a microwave. Do not repair or replace any part or accessory with a part or accessory that is not an original IN&MOTION item covered by these warranty terms. Do not have the In&box repaired or handled by any party other than IN&MOTION.**

IN&MOTION makes no other expressed warranties, except stipulated otherwise.

## DETECTION CONDITIONS

User security is IN&MOTION's primary concern.

As part of our obligation of means, we strive to implement all the technological solutions that we have available so that the In&box detection system can ensure the best degree of protection and comfort.

However, the user of this device is the first actor of his/her protection, and the detection system developed by IN&MOTION will provide optimal protection only by adopting responsible and respectful behaviour of road safety rules, without guaranteeing the absence of damage. The embedded detection system cannot make up for behaviour that is dangerous, disrespectful or contrary to road safety regulations.

### 1. Use modes

The detection modes make it possible to adjust the settings of the conditions for detecting a fall or an incident and therefore the inflation of the airbag cushion to adapt to the specificities of each practice.

Three detection modes have been developed by IN&MOTION:

- STREET mode: designed to be used exclusively on roads prepared for the circulation of vehicles (i.e a road with a suitable asphalt covering for public access)
- TRACK mode: designed to be used exclusively on closed regulated circuits
- ADVENTURE mode: designed to be used only for off-road practice on unpaved roads that would be suitable for standard automobiles (i.e a public road wider than a path and which is not designed for vehicle traffic in general.)

Exclusions:

STREET mode is not designed to be used on closed roads, in particular for road rallies, hill climbs etc...; nor on non-drivable road (road without asphalt); nor for the practice of stunts.

TRACK mode is not designed for any other type of practice: supermoto, road rally, dirt track, sidecar ...

ADVENTURE mode is not designed to be used for any other type of practice: motocross, freestyle, hard enduro, trial, quad.

The selection of the detection mode is carried out under the sole responsibility of the user who must ensure before each use that they have selected the detection mode suitable for their practice.

The selection is made via the dashboard of the «My In&box» mobile application, which allows the user to change and control the selected detection mode. In the event of a new mode becoming available, the user must first update their In&box to download this new mode which then appears in the mobile application. For more details about updating, please refer to the “Updating” section of this manual.

IN&MOTION does not accept any liability for damage caused in situations where the mode selection was not appropriate or in applications or practices other than those mentioned above.

## 2. Detection performances

Based on data collected from users(1), more than 1200 real crash situations have been analyzed. The software(2) offers to date in STREET mode an average detection rate of 91% for all types of crashes.

The detection rate means the percentage of cases in which the In&box detects, during an accident, a fall and issues a request to inflate the airbag system, in the event that the conditions of use referred to in this manual have been observed by the user.

Software updates are regularly released by IN&MOTION to all users to further improve this detection rate.

Please refer to the release notes available online at [www.inemotion.com](http://www.inemotion.com) for further details regarding the product performance associated with each software version.

- at the date of edition of this version of the user manual
- the June 2021 software version is called “Turini-6.0.0”

## 3. Detection modes specificities

Specificities of the STREET detection mode

STREET mode is automatically included in any IN&MOTION membership (Revolution or Regular formula).

It has been developed specifically for accidents and falls in traffic on open roads, particularly related to loss of grip or a collision.

Specificities of the TRACK detection mode

In order to benefit from cases of detection of TRACK mode, it is necessary to have previously activated TRACK mode by having subscribed to the dedicated option. This dedicated option is available on the IN&MOTION website: [www.inemotion.com](http://www.inemotion.com)

This detection mode has been developed to adapt to sports use on a speed racing type circuit with extreme angles and severe braking. It optimizes the detection of low-side and high-side falls and limits the risks of unexpected inflations.

Specificities of the ADVENTURE detection mode

In order to benefit from cases of detection for ADVENTURE mode, it is necessary to have previously activated the ADVENTURE mode by having subscribed to the dedicated option. This dedicated option is available on the IN&MOTION website: [www.inemotion.com](http://www.inemotion.com).

The settings of this detection mode differ from STREET mode to adapt to “off-road” type use with more vibrations, situations of limited grip, light jumps while integrating loss of balance at low speed not causing the need for inflation.

The ADVENTURE mode is available from the In&box software version called "Raya-5.4.2".

#### 4. Data processing

The IN&MOTION detection system is upgradeable, and the detection algorithms can be updated thanks to the anonymous collection of user data.

For any information regarding the data collected by IN&MOTION, please refer to our Privacy Policy available on our website [www.inemotion.com](http://www.inemotion.com)

**[Warning] We remind you that the user must respect speed limits and the rules of the road in force in the country in which he/she is riding.**

**[Warning] The detection system uses the In&box's GPS signal to optimise triggering cases. When the system doesn't detect or detects the GPS signal poorly, the system's degree of detection is not at the level of performance achieved with an optimal GPS signal.**

**[Warning] The detection system only works if the In&box is correctly charged.**

**The lighting code of the In&box LEDS allows the user to make sure that the In&box has been correctly charged. Battery consumption needs to be monitored by the user to ensure that the trigger system remains active during the journey.**

**[Warning] The detection system detects abnormal movements that are likely to result from a falling motorcyclist. In some extreme or unusual situations, the system may be triggered without the motorcyclist falling. As of June 1st\*, 2021, there have been no cases of unwanted inflations leading to falls reported by users to IN&MOTION.**

\* date of edition of this version of the user manual

**IN&MOTION cannot be held responsible in case of an unwanted trigger.**

#### **IN&MOTION airbag system and air transportation**

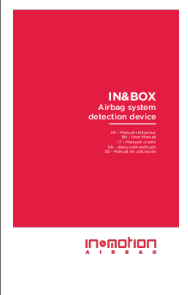
Always turn off your airbag system before using air transportation and remove In&box from the airbag system before flying!

IN&MOTION recommends keeping this user manual with the airbag system and with the In&box while travelling, especially by plane.

You can download the documentation corresponding to air transportation in the support section of the [www.inemotion.com](http://www.inemotion.com) website.

IN&MOTION cannot be held responsible in case the airline refuses to transport the product.

## Documents / Resources

	<p><a href="#">In motion IN&amp;BOX Airbag System Detection Device</a> [pdf] User Manual IN BOX, Airbag System Detection Device, IN BOX Airbag System Detection Device</p>
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