

# USER GUIDE FOR Yellowbrick V3 MkII

Version 2.0.0



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## Using the Device - The Basics

This section outlines your device's capabilities and describes how to utilize them when in the field.



- 1 Iridium antenna
- 2 Screen
- 3 Alert button & cover
- 4 GPS antenna
- 5 Keypad

## Device Orientation, Set-up and Key Features

### User Interface

The user interface consists of a mono display and 6 buttons. One alert button, and five navigation buttons. The Yellowbrick is designed to be used in conjunction with either the YBlog system (for individual/consumer use) or the more comprehensive Back-Office system (for corporate use).

The behaviour of many features of your Yellowbrick, including the alert features, is configured by changing settings in your YBlog or Back-Office system.

### Orientation

Your unit is equipped with both Iridium & GPS antennas located at the top of your casing. For the best results it is important to be mindful of the orientation of your device when in use. To ensure good satellite signal, the antennae should be clear of obstructions and have a clear view of the sky.

Examples of obstructions include a heavily wooded area or inside a vehicle or building. Environments such as these offer very little, if any, view of the sky. In these instances, it would be best to reposition your device so that it can have a clear view of the sky, such as in a clearing, on the dashboard or rear window of a car or on a windowsill.

Once switched ON, your device will try to obtain a GPS signal. The time

### Hints & Tips

If you have a Basic or Standard version of the product you will have a YBlog, a customisable map and blog which allows you to view your trips and upload articles and pictures along the way.

Professional and Corporate customers will have access to our Back-Office system, which allows management of multiple devices on the same screen, and features designed for business.

taken to obtain a signal will vary from few minutes when the device has never been used or not been used for a while to few seconds when the device is regularly used.

## Charging and Switching On

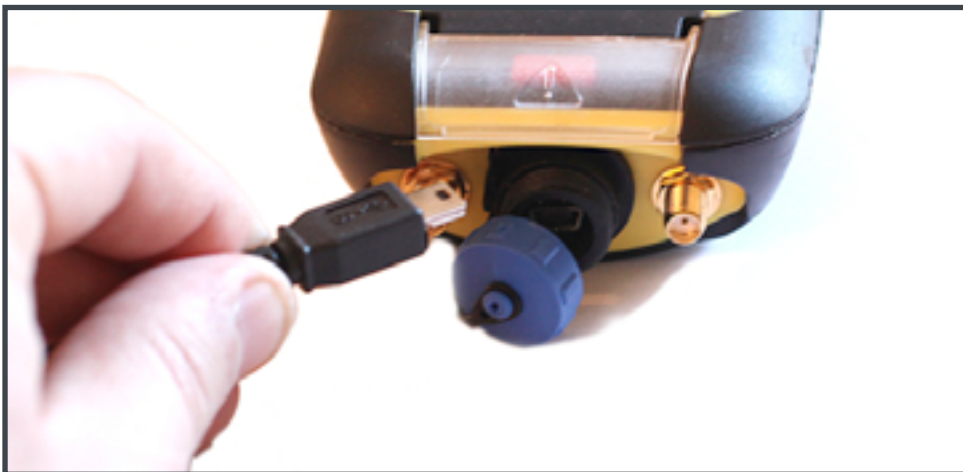
The device has an internal rechargeable battery which must be charged before use. Before the first use we recommend the device is left on charge for a minimum of 8 hours.

Your Device can be charged from any USB compatible charging device, although we recommend you use the provided charger whenever possible.

### **To charge the unit:**

- Connect the charger to a wall outlet
- Attach the USB cable to the charger
- Unscrew the cap from the bottom to reveal the USB port
- Plug the USB cable into the USB port on the bottom of the device

When charging the light on the front of the keypad will be red. The red light will flash for 5 minutes when the unit has finished charging, and will then go off.



The estimated charging time to fully charge the device is 7 to 8 hours from completely discharged.

The device can be used whilst charging, however, the charging cycle will complete more quickly if the device is deactivated. The device can be used with a partially charged battery.

Your Yellowbrick is now ready for use. You can turn it on by pressing and holding the OK button for 5 seconds.

### **Sending a basic alert**

The alert button is located under the flap at the bottom of the unit. To trigger an alert, lift the flap and hold down the alert button for 5 seconds. The screen will display 'Sending Alert' and the Yellowbrick will try to transmit an alert message.

If you are in an alert situation, ensure that you give your alert the best possible chance of sending by considering the orientation of the Yellowbrick. Ensure it has a good view of the sky, or as good a view as is possible in your situation. The better the view of the sky, the more likely it is that your alert will be received.

## Hints & Tips

Charging your unit from empty should take between 6 and 8 hours, depending on the speed of the charger.

Some chargers will not provide as much power as others, and so the unit may charge more slowly.

When the unit has finished charging, the light on the front will flash red for 5 minutes, and then will go off.



The alert button is under the cover at the bottom of the unit

### Hints & Tips

If you are in an alert situation, ensure that you give your alert the best possible chance of sending by considering the orientation of the device.

Ensure it has a good view of the sky, or as good a view as is possible in your situation.

The better the view of the sky, the more likely it is that your alert will be received.

## Features and Facilities

### Operating Modes

#### *De-activated*

When the device is deactivated, the screen will show the current battery percentage, and will display 'NOT ACTIVE' on the screen.

In this mode, the Device will not transmit or receive any position reports or messages. This is the equivalent of 'Flight Mode' and suitable for transport.

#### *Activated*

When turned on the device will show the Device logo on the home screen.

The display will automatically turn itself off after a pre-defined interval (default is 20 seconds) in order to save battery power. To wake up the screen, simply press any key.

In this mode, the Device will automatically send position reports and messages as per its current settings.

#### *There are several indicators on this screen:*

- In/Out – how many messages are waiting to be read, or are waiting to be sent
- Battery power (% of battery remaining)
- Status – what the tracker is currently doing

Pressing the UP or DOWN button will also display an information page, which shows the details of the last position report and whether a GPS fix and Iridium transmission were successful for that report. The Device has a fully featured menu system allowing you to access and adjust a large number of facilities and settings. The menu structure is outlined below.

### Accessing the menu

To access the menu, press the OK button. The menu can only be accessed when the device is activated. Navigate options using the up and down buttons, and press OK to select an item.

## Tracking Menu

### **Status on/off**

Choosing this option allows you to turn the automatic position reporting on or off. When turned on, the Device will automatically obtain a GPS fix and transmit it at a set frequency (see below).

### **Send Manual Report**

Choosing this option will prompt the Device to obtain an immediate GPS fix and transmit the position immediately. This function is also possible from the home screen, by pressing/holding the UP button for 2 seconds.

### **History**

The history screen allows you to see the last 10 attempted position reports and their associated data (time, lat, lon, altitude) and whether the reports were sent successfully over Iridium.

### **Report Frequency**

Using this menu option the frequency of automatic position reporting can be viewed and set. Options range from 'Continuous' which will obtain and send reports as quickly as possible, to 12-hours, allowing for 2 automatic reports per day. There is also a BURST mode.

### **Burst Mode**

Burst mode allows the Yellowbrick to collect many GPS reports, in order to get more accurate tracking information, but to send them as a batch in order to keep airtime costs down. For example, the Yellowbrick can collect a GPS fix every 5 seconds, and then transmit those positions once per minute.

To set burst mode, in the Report Frequency you need to choose Burst. Then, in the Burst Settings menu you can choose how often you wish to take a fix (Burst fix) and how often you wish to transmit (Burst transmit).

Note: This mode will use power more quickly than other tracking modes, since GPS is kept on all of the time.

### **GPS Hot**

In some situations you may want to immediately mark a position with a manual report whilst travelling at speed. In this sort of situation you want to be able to rely on an instant GPS fix when you fire a manual report.

With GPS Hot turned ON, this means GPS is continually keeping track of your position so there is no delay between the time you fire a manual report and the time the position is marked. This mode will use power more quickly than other tracking modes, since GPS is kept on all of the time.

## Hints & Tips

You can send a 'Manual Report' at any time by pressing and holding the UP button for a few seconds, and confirming with the OK button.

This will transmit a position report there-and-then, without waiting for the next scheduled transmission time.

## Alerts Menu

### ***Timer Alert***

This option allows you to set an alert message to be sent after a pre-defined interval. This is useful if you would like to send an alert in the eventuality that you are not able to cancel the alert within a pre-defined time. Timers can be chosen between 5-minutes to 12-hours.

### ***Dead Man's Switch***

The dead man's switch alert allows you to set a frequency. You are then required to press a button on the device at least every X minutes, to confirm you are still with the device. The timer resets every time a button is pressed.

If a button is not pressed at least every X minutes, or when prompted then an automatic alert is sent.

### ***Temperature Alert***

Should the temperature leave your defined range (e.g. 0 degrees to 40 degrees) then an automatic alert will be sent. This option allows you to turn this alert type on/off and set the temperature over which the alert will be sent.

### ***Power Loss Alert***

If this option is turned on, should the unit lose external power then an automatic alert will be sent.

### ***Bluetooth Pairing Loss Alert***

If this option is turned on, should the unit lose its pairing with a Bluetooth device then an automatic alert will be sent

### ***Geo-fence Alert***

This alert type allows you to set your current position, then set a distance. Should the device leave the pre-defined circular area, an automatic alert will be sent.

## Hints & Tips

The additional alerts described in this section are only available to customers with Professional or Corporate versions of the device.

To upgrade, get in contact with us, and we can organise that for you.



## Settings Menu

### **Screen idle**

After a set number of seconds the screen will timeout to save battery. This option allows you to set the number of seconds before this happens.

### **Screen lock**

You must first enter the current PIN number for the device to access this menu. The default PIN is 1234.

In this menu you can turn on/off the screen lock and set a PIN code to access the device. When this option is turned on, you must enter a PIN code to be able to access the menu system.

A PIN code is entered digit by digit, by pressing UP/DOWN to choose the number, and OK to move to the next digit.

### **GPS Wakeup time (Early Wakeup)**

By default the unit will wake up 20 seconds before the automatic position reporting time, in order to obtain a GPS fix before transmission. In challenging conditions, or where visibility of the sky is limited, it may be required to increase this wakeup time to allow the GPS more time to get a fix.

Options range from 20 seconds to 3 minutes. By increasing this time, battery life will be decreased.

### **Screen brightness**

By default the screen is set to 50% brightness. This option allows you to change the screen brightness for better viewing in bright sunlight. Increasing the brightness will decrease battery life.

### **Language**

This setting will change the language of the device from the default English.

### **Send Config Report**

This menu option will prompt the Device to send a configuration report detailing its current setup to the back-office system.

## Hints & Tips

Having trouble seeing the screen in very bright conditions?

By default the screen is set to 50% brightness. This option allows you to change the screen brightness for better viewing in bright sunlight.

Increasing the brightness will decrease battery life.

## Bluetooth Menu

### *Turn on/off*

By default Bluetooth is turned off on the device. This is to conserve battery. From this option you can turn Bluetooth pairing and messaging capabilities on/off.

Dependent on the Bluetooth accessories and sensors you have purchased, you may have other options on this menu.

### *Android / Apple iOS Software*

The Yellowbrick Messenger app is available to download from the Android and Apple App Stores – this software allows you to pair your smartphone or tablet with the Device and send messages to email and SMS destinations through it from anywhere in the world.

It also allows you to update your social media status amongst other features.

This is called Advanced Messaging, and is only available on some device models.

## Messages Menu

### *New Message*

From this menu you can choose to send a new preset message

Messages sent using the Yellowbrick will go to your chosen destinations which are pre-setup using either your YBlog (individual customers) or back-office system (corporate customers).

You can choose whether you would like an acknowledgement from the recipient, and if you wish to send the message immediately (or if not, the message will be sent on the next scheduled transmission).

When you are finished choosing/writing your message, pressing OK will put the message into the outbound queue ready to send.

Remember - if you chose the 'Send Immediately' option then the Yellowbrick will try to send straight away. If not, then the unit will queue the message and attempt send it at the same time as the next scheduled position report.

### *Freetext*

You can also send free text messages, using a 'pinball style' on-screen keyboard. Note, we do not recommend this for long messages!! To do this, go into free text, use the left/right/up/down buttons to move around the keyboard, and press LEFT and RIGHT together to choose a letter. When you have finished, choose EXIT to confirm and send your message.

As mentioned, this is NOT an efficient way to send long messages, and we would suggest either pairing with a smartphone/tablet or using preset messages where possible.

### *Inbox*

This page allows you to cycle through messages received on the Yellowbrick. You can choose if you wish to delete messages, or reply to them.

Message details shown are the date/time, source, and the message itself.

## Hints & Tips

Advanced Messaging (or messaging using a Bluetooth device) is not available on the 'Basic' model of the device.

Get in touch with us if you would like to upgrade.

## **Sent Items**

This page allows you to cycle through messages sent from the Device. You can choose if you wish to delete messages.

Message details shown are the date/time, destination, and the message itself. The Device will also indicate if the message was successfully sent, and if it was acknowledged (if an acknowledgement was requested).

## **Outbox**

This page allows you to cycle through messages waiting in the queue to be sent. You can review these messages and delete them from the outbox if you change your mind and do not wish to send them any more.

From the outbox you can also force an immediate retry-send of all messages waiting to be sent.

## **Inbox Checking**

This setting can be used to force the Yellowbrick to check for new messages every X minutes. It is set by default to Off. Be aware, inbox checking uses up credits just like normal position reports.

A normal tracking report also checks for new messages, so you **do not need** both Tracking and Inbox Checking set to ON. You will use up twice as much credit if you have both items turned on.

## **Remove All**

If you want to clear all old messages from your inbox and sent items then you can do so using this option.

## **Custom Preset Message Lists**

It is possible to customize the preset message list on your Yellowbrick, to better suit your own personal needs. Facilities and instructions to do this can be found in your YBlog admin panel (for individual customers) and in the back-office system (for Corporate customers)

## **Sending a message to your Yellowbrick**

Every Device has its own e-mail address which you would have been provided with at registration.

You can write your email address here for safe-keeping:

\_\_\_\_\_ **@my.yb.tl**

People can send emails to this address, and those emails will be forwarded through to your Yellowbrick and picked up at the next transmission. New messages will go into the Inbox.

Any messages you send from your Yellowbrick to e-mail contacts will also come from this e-mail address, and people can reply directly to those emails as well. Similarly, people can reply to any text messages they receive from your Yellowbrick and these replies will also be routed through.

Note: Only registered contacts are allowed to send you emails – to add contacts to your ‘allowed’ list, use your YBlog admin panel (individual customers) or the Yellowbrick Back-Office system (corporate customers).

## **Hints & Tips**

You can customise the preset message list on your device.

It's as easy as dropping a file on to the unit via USB, and then the list is updated!

Write your own short messages, codes, or abbreviations, to allow you communicate more easily with those back home.

## Waypoints

### **Mark Waypoint**

Using this feature you can mark interesting points and send them to the back-office for display. Choosing 'Mark Waypoint' will allow you to choose the type of waypoint, and the system will then take a GPS fix and transmit the waypoint to the back-office.

### **Custom Waypoint Lists**

It is possible to customize the waypoint type list on your Yellowbrick, to better suit your own personal needs. Facilities and instructions to do this can be found in the back-office system.

### **Advanced Menu**

The advanced menu will have a number of features, dependent on your Yellowbrick model. These features are for advanced use only, and should only be adjusted under instruction from a member of Yellowbrick staff or following specific instructions.

### **Deactivation / Turning Off**

The Device cannot be turned off completely, but can be deactivated – much like a standby mode for your TV.

The unit can be deactivated by choosing DEACTIVATE from the menu and then pressing OK to confirm.

## Device Maintenance

### **Replacing the Battery**

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

### **Cleaning**

To clean your Device, unplug all cables and turn off. Then use a soft, slightly damp cloth to clean any dirt.

Do not use alcohol or abrasive substances to clean your device.

Periodic lubrication of the USB rear cap (using a silicon lubricant) will reduce the risk of water penetration.

### Hints & Tips

Want to mark interesting points you find whilst out with your device?

Use the Mark Waypoint feature on the Professional and Corporate versions of the device.

Choose the type of Waypoint from the list, and press Send. Your unit will take a GPS fix, and then send the point back to your map, for later review!

## Fault Finding and Support

### Troubleshooting

If something isn't working correctly, deactivate the device, wait until the green light has stopped flashing and then switch on again.

You can also reset the device by holding down the DOWN and ALERT buttons for 10 seconds (until the screen goes blank and the red LED comes on) then release the buttons.

Ensure the unit is fully charged.

If neither of the above work, then please get in touch with the Yellowbrick helpdesk, using the details below.

### Helpdesk

For assistance, please contact the Yellowbrick support team by emailing **support@yellowbrick-tracking.com** - it would greatly help us if you provided the following information:

- Name and contact number
- Serial number of the Device (see serial number label)
- Symptoms of the fault
- History of action taken to attempt to rectify the fault

## Battery Life Expectations

*These battery life predictions assume the following:*

- No display usage
- Bluetooth off
- GPS Early-wake set to 20s
- Clear sky conditions

Interval	Transmissions	Hours	Days	Weeks
Continuous	6000	80	3.3	0.5
5 minutes	3300	275	11.5	1.6
15 minutes	2900	725	30	4
30 minutes	2500	1250	52	7.4
1 hour	2200	2200	92	13
4 hour	1500	6000	250	36
8 hour	1050	8400	350	50

As with all portable battery powered devices, battery life can be significantly shortened by extreme temperatures and some usage patterns.

### Hints & Tips

Positioning of your device has a massive effect on the battery life.

Whilst it may still work perfectly well, a device with a poor view of the sky will use up battery 10 times more quickly than one with a good view of the sky!

Make sure that you take this into account when choosing where to put your device.

**Key factors which will shorten the number of transmissions possible on a battery charge are:**

- Use of Bluetooth facilities
- Use of GPS Hot Mode and Burst Mode
- Poor positioning, so poor view of the sky
- Use of the device with the display on for long periods of time

## Warranty & Notices

### **Manufacturer**

This device was designed, developed and manufactured in the United Kingdom by Rock Seven Mobile Services Limited (Rock Seven).

### **Warranty**

A one-year warranty is provided with your device, starting on the purchase date. This does not affect your statutory rights.

Should you encounter a problem with your device, we agree to remedy the defect either by repair or replacement (at our option). Please contact us directly in order to arrange this. An original receipt is required for any warranty claims.

The warranty is void if:

- Any component has been subject to misuse or improper installation
- The casing of the unit has been opened or tampered with in any way

### **Notices**

- “Made for iPod”, “Made for iPhone”, and “Made for iPad” mean that an electronic accessory has been designed to connect specifically to iPod, iPhone or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone or iPad may affect wireless performance.
- iPhone, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries
- Android is a trademark of Google Inc.
- Iridium and the Iridium logo are registered trademarks and service marks of Iridium Communications Inc.
- Other trademarks and trade names are those of their respective owners.

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Rock Seven does not accept liability for the contents of this user guide. Product improvements may alter the product specifications or operation without notice.

## Accessories

### ***Soft Pouch***

A soft pouch, with velcro straps and eyelets for attaching to rucksacks, rails, bags and belts etc. Designed to protect your device from scuffs and shocks.

### ***Multi-Country Charger***

A compact multi-country USB charging unit, Covers all of the main 4 types of international plug socket.

### ***Car Cigarette Lighter / USB Adaptor***

Charge and power your device using your car cigarette lighter and a USB adaptor.

### ***Quick Release Mount***

A permanent mounting system to allow your device to be attached to a rail (horizontal or vertical), screwed to a wall or bulkhead, or attached to any RAM mounting system. The device can be 'released' from the mount for portable use, and then clipped back in later.

### ***Suction Cup (for use with Quick Release Mount)***

Used with the Quick Release Mount above, it allows your device to be mounted on a windscreen (or similar surface) with a suction cup.

### ***9 to 30v Power Supply***

This IP67 box will provide a permanent power supply for your device, connecting to a 9 to 30v mains supply - so you do not need to recharge your device using the USB charger on a regular basis. It has a waterproof (IP67) mating connector for the back of the Yellowbrick.

### ***NMEA plus 9 to 30v Power Supply***

Designed for yachting, this IP67 box will provide a permanent power supply for your device, connecting to a 9 to 30v mains supply. It will also take NMEA data from your yacht's systems and transmit it back with each position report. It has a waterproof (IP67) mating connector for the back of the Yellowbrick.

### ***Sensor Breakout Box plus 9 to 30v Power Supply***

An IP67 box which houses a power supply unit and a set of sensor inputs. Used to send data back from remote sensing equipment such as ocean buoys, weather stations and more.

Visit our website at [www.yellowbrick-tracking.com](http://www.yellowbrick-tracking.com) for more information on these items, or get in touch via email at [sales@yellowbrick-tracking.com](mailto:sales@yellowbrick-tracking.com)

# Declaration of Conformity

## CE - DECLARATION OF CONFORMITY

according to ISO/IEC Guide 22 and EN 45014

**Manufacturers Name:** Rock Seven Mobile Services Ltd  
**Manufacturer's Address:** Unit 2, Eastlands Boatyard  
Coal Park Lane  
Swanwick  
Southampton  
SO31 7GW  
United Kingdom

**Declares that the product (s):**

**Product Name:** XmarX / RockStar / Yellowbrick 3 Tracker Mk2

**Conforms to the following Product Specifications:**

**Directive:** 1999/5/EC Radio and Telecommunications Terminal Equipment Directive

**The equipment is in conformity with applicable requirements of the following standard:**

EN 50371	Basic restrictions related to human exposure to electromagnetic fields (10 MHz - 300 GHz) - General public
EN 60950-1	Information technology equipment - Safety -- Part 1: General requirements
EN 300 328	ERM; Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques
EN 301 441	Harmonized EN for Mobile Earth Stations (MESSs), including handheld earth stations, for Satellite Personal Communications Networks (S-PCN) in the 1,6/2,4 GHz bands under the Mobile Satellite Service (MSS)
EN 301 489-1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
EN 301 489-17	EMC standard for radio equipment; Part 17: Specific conditions for Broadband Data Transmission Systems
EN 301 489-20	EMC standard for radio equipment; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS)

**Supplementary Information :**

The product(s) herewith comply with the requirements of the R&TTE Directive 1999/5/EC.  
The product(s) were tested in a typical configuration.

Nick Farrell  
Director



01/11/2012