

# spidertracks

## Spider S4 Instruction Manual



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October 2013. This manual was correct at time of printing. Please contact [support@spidertracks.com](mailto:support@spidertracks.com) if you have any issues with these instructions.

# 1. Installing your Spider S4 and keypad

Spiders need a good, clear view of the sky.

## Positioning

We recommend placing the Spider on top of the instrument panel in the aircraft, not directly under any window frames or heated windows. If you cannot physically see the sky from where the Spider is placed the Spider will not be able to either. The Spider is not subject to Specific Absorption Rate testing, however we recommend placing it no less than 200mm from a person.

Secure the Spider to the dashboard with the bracket supplied. The Spider unit can be quickly removed from the mount when required. The top of the Spider should point upward.

## Installing your Keypad

Connect the Keypad to the Spider S4 via the USB connection under the blue cap. Attach the Keypad with the adhesive bracket supplied to a place you can easily reach while flying. Be careful not to put it in a place where you may accidentally knock the buttons.

## Power

The Spider can be powered using the supplied power lead - just plug into your vehicle's 10 to 32 volt DC (cigarette lighter) power supply. Alternatively the Spider can be hard-wired to the power supply in your vehicle if you prefer. It is a simple process for a Licensed Aircraft Maintenance Engineer or technician to wire in the supplied power lead to the battery.

The Spider draws can draw an excess of 1A on transmission, a 3A fuse is recommended and if required 18 – 22 AWG wire can be used depending on length. The Spider should not be used in line with a switch.

The power lead supplied has three wires. Brown is positive, black is earth, and blue is not required.

## 2. Initial Power Up

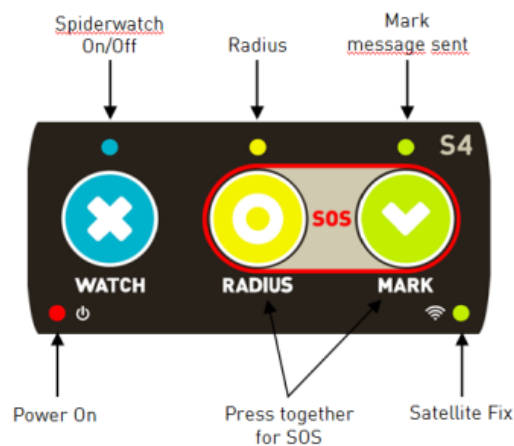
Once your website account is set up and you have installed your Spider you are ready to go flying.

### Initial Start Up

When the power supply is connected and turned on the Spider will automatically connect to a satellite. The left LED on the keypad of the will glow red and the right LED will turn amber when it has a GPS fix. This will turn green when it has sent the first position report through the Iridium Satellite Network. The first time you power up, it may take the Spider a few minutes to secure a GPS fix. After that it should take less than a minute if you use your Spider often. It is recommended you have a GPS fix before moving.

Please remember the Spider must have a view of the sky in order to work.

## 3. Using the Keypad



### Watch

Press the **Watch** button for the website to monitor your flight. The website will monitor the points coming in and if none are received for a 15 minute period while monitoring is turned on the website automatically will send out an email and text **SOS** to your contacts.

You can have monitoring on for part or all of the flight, you are able to turn it on and off by pressing the **watch** button. The normal transmission rate will occur when monitoring is turned off. You must turn Watch off at the end of your flight, and wait for the blue LED to stop flashing.

Please note that if you are flying with Watch on, you can use the Radius. This will suspend Watch until you leave the Radius. Watch will turn back on when outside the Radius area.

## **Radius**

Press the Radius button when working in an area for an extended period of time if you do not wish points to be sent while in this area. This may be while flying close to your home airport, or doing agricultural work. Normal tracking will resume on exiting the radius area or pressing the Radius button a second time.

## **MARK**

Press the mark button to force a position point to be sent right now. A description will be added to the point when viewed on the website. The **notification message** from Mark 1 can be sent to email and the mobile phones that have been set up to receive these in the Notification settings page on the website. When the button is pressed once a Mark one is sent, Mark 2 -> press twice, Mark 3 -> press three times, Mark 4 -> press four times. Presses must be within one second of each other.

The Mark button can be used at any time and a point will be sent, as long as the unit has a GPS fix.

## **SOS**

Pressing **Radius and Mark button** on the Spider will cause an SOS to be sent to your support people setup in the website. The only way to stop the alert is to power down the Spider and power up to start it tracking again.

SOS alerts will not be sent to emergency services. If you require the alert to be sent to emergency services please contact your local authority and inform them that you intend to do this. They may require further information on how the alert service works. Please contact [support@spidertracks.com](mailto:support@spidertracks.com) if information on the alert service is required.

Please also note that the alert mobile number must be in international format and must be a valid mobile number. For example, a United States mobile number 555 234 567 would be entered +1555234567, where +1 is the international calling code.