

## USER MANUAL



### Out of the box - Prepare for Use

Unscrew and remove white lens section



### VERY IMPORTANT

Remove & dispose of battery isolator before charging the battery.



Holding the lens section firmly, carefully insert USB cable into micro USB socket

Scarab's heart will pulse red when charging and green when fully charged.

Average charge time is 3.5hrs dependent on battery condition. Always use approved charging devices.

## Operating Guide

Adjusting LED Power setting:

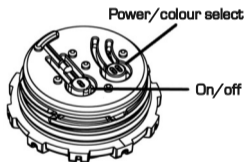
Press and hold the "on/off" button then press the "power/colour" button to adjust the brightness. Release both buttons when desired power is achieved. Scarab will flash quickly at the highest and lowest settings.

### Setting the colour:

There are 3 colours, RED, GREEN & YELLOW.

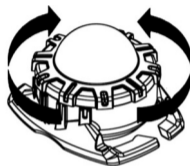
Double click and hold the "on/off" button. Then CLICK the "Power/colour" button to choose your desired colour; release both buttons when colour is selected.

After a short while the features will become familiar and easy to use.



## To switch Scarab on/off

Insert white lens section into base section, screw into base until lit. To switch off, unscrew slightly. (less than a 1/4 turn)



### VERY IMPORTANT:

Scarab is only water tight when the white beacon section O-Ring seals into the base as a complete assembly.

### Operational times guide:

Setting

Maximum approx: 7 hrs

Medium approx: 16 hrs

Low approx: 120 hrs

Times may vary according to ambient temperature.

## Charging the Battery

### Low battery indicator:

When the battery requires charging Scarab will flash 3 times when you try to switch it on. It will not operate normally until charged. Average Charge Time: 3.5hrs.

Always use the USB cable supplied with Scarab or an approved cable. The charger's output voltage must not exceed 5V. Use only a CE/UL approved charger/computer device.

Be aware that if you have several USB devices running off your PC the process may take longer as the USB port power can be reduced

## Eye Safety

The LED in Scarab is diffused by the optical lens, however its is advised to avoid looking directly at the beacon when operating it. Scarab is very powerful, set the power level to suit your chosen application and consider others when in use.

## Care and Precautions

Use only approved USB charging devices. Avoid placing Scarab in or near fire or heat. Incorrect use can damage the battery.

**DO NOT attempt to open the lens section or replace the internal battery, The warranty is void if opened Scarab has tamper evidence designed into the body.**

Avoid exposing the open beacon section to moisture.

**Do not clean with solvents.**

### Warranty:

2 yrs applies to manufacturing defects only. Battery damage, misuse are excluded.

Whats in the Box:

- Scarab Beacon
- USB charging cable
- Runners armband
- Replacement O ring
- 2 x Rubber bands
- User manual

## About Scarab Safety Beacon

Designed to fit on dog collars & harnesses, rucksacks, arm and head bands, Scarab gets you seen giving advance notice of your presence. With more cyclists using pathways and an increased number of vehicles using our roads, it is even more necessary to have as much reliable protection when outside.

Whether walking a dog, running, trekking or hiking or emergency use, Scarab ensures your position is clearly visible to other people.

Unlike other lights Scarab produces equal, all-round light output at any viewing angle of its specially designed lens. Scarab harmonises its power LED and engineered optical polymer to give maximum visibility to oncoming traffic.

## Technology

Inside a microprocessor manages all Scarab's functions:

- Power level adjustment
- Choice of 3 LED colours
- On/off
- LED Frequency
- Battery Management
- Charging Control

A robust Power LED provides an unparalleled display of diffused light to get you safely through your journey, long or short.

### Adjustable Power Control:

Depending on your usage needs you can change the LED's power and colour setting to suit your requirement. From walking the dog, running, for distance uses, Scarab has a setting for you.

Scarab is visible from over 600mtrs on the lowest power setting, we recommend this level for everyday activities such as walking the dog and group walks.

## Convenience & Safety

### Water Protection:

Scarab has been designed to meet the requirements of IP67 when the white beacon section is screwed into the black base section and sealed on the O-Ring.

### Accessories:

Scarab comes with a suite of accessories, no need to buy any extras. An armband for personal use when running or hiking and a spare o-ring seal are included so you dont have to worry and of course its rechargeable so no need to waste batteries. A USB cable is in there for your convenience. Always use an approved charging device.

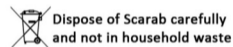
You can re-use the packaging rubber bands if you wish to mount Scarab on your bike or trek/ski pole, take care to check the suitability before doing so as these can weaken.

The packaging is designed to act as a storage box when not in use.

## A Polite Reminder

LED's can cause injury to the eye. Epilepsy sufferers should NOT wear Scarab. This beacon is designed for adult and canine use, it is not sold as a toy and must be considered a choking hazard.

Declaration: Scarab complies to requirements regarding **CE** and RoHS approval



Scarab is manufactured by:  
Fretho Ltd  
Registered Office:  
Byron House, 21 Rectory Road  
West Bridgford, Nottingham  
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## Battery Information

Type LIR2450  
Material: Lithium ion  
Voltage: 3.6V  
mAh: 120=/-10%  
mΩ: ≤400  
Size: 24.5 x 5.0mm  
Weight: 5.2g

Operating/Storage  
Temperature: -20°C to +40°C

Battery Cycle: ≥500 cycles  
No memory effect  
Manufactured to ISO 9000

Scarab Details:  
Weight: 23g  
Height: 30.0mm  
Length: 49.0mm  
Width: 38.00mm

