

# ST4K

## Underwater Emergency Rechargeable Xenon Strobe



underwater **vision** specialists

### Features

- 4,000 Metre Depth Rated
- Rechargeable
- High Intensity
- Pressure Switch
- Hand Switch
- Daylight Switch
- Remote Head



### Description

The Bowtech Products ST4K, Xenon rechargeable submersible strobes are self-contained, compact, high intensity xenon beacons designed for use as a visual aid to locate submersible vehicles, or instrumentation packages when they surface for recovery. They can also be used to mark underwater objects, vehicles, divers or work sites.

The strobe is designed such, that when the ROV power (120 to 240Vac) is on, it will still switch the charging circuit for the strobe batteries on and switch the strobe off to conserve battery power. The strobe will constantly charge when the power is present, however the charging will switch off when the voltage on the batteries reaches the fully charged level.

The unit will only operate if the following conditions are met:

1. ROV power is lost
2. The pressure of seawater on the pressure switch is low enough to switch the unit on (i.e. above 10 metres of seawater)
3. The ambient light around the LDR sensor is low enough to switch the unit on



© Bowtech Products Ltd 2014 All rights reserved.  
Bowtech Products Ltd reserves the right to change the above specifications without notice.

T +44 1224 772345  
F +44 1224 772900

sales@bowtech.co.uk  
[www.bowtech.co.uk](http://www.bowtech.co.uk)

Last updated 17<sup>th</sup> January 2014  
Revision: 2

# ST4K

## Underwater Emergency Rechargeable Xenon Strobe



underwater **vision** specialists

## Specification – ST4K

### ELECTRICAL

Flash Rate, adjustable:	40, 25, 18, 15 / min, Factory set at 15 / min
Voltage:	120 to 240Vac
Max Flash Energy:	3.38 Emax/Ws
Tube Life:	>1 million flashes
Photocell:	Adjustable, Factory set at 100 Lux
Battery Type:	2 x Rechargeable Nickel Metal Hydride
Battery Life:	50 hrs Approx. at 15 / min 10 hrs Approx. at 40 / min

### ENVIRONMENTAL

Operating Depth:	4,000m
Operating Temperature:	-30 to +50°C
Housing Materials:	Hard Anodized 6082-T6 Aluminium

### MECHANICAL

Length:	225mm Excluding Switch, Head and Connector
Diameter:	110mm
Window/Lens:	Acrylic
Switches:	Pressure Activated Below 10m, Hand On/Off, Photocell, 100 Lux (adjustable)
Anode:	Zinc
Weight in Air:	3.3kg
Weight in Water:	2.12kg

### SWITCHES

**Photocell** - A Photocell is included in each strobe, to turn the unit off and conserve battery life during daylight hours. The photocell is factory set to activate at approximately 100 Lux, however this level can be adjusted by the user according to operational requirement. Additionally, the photocell switch can be disabled to allow continuous operation.

**Pressure** - The pressure switch is designed to turn the unit on or off when the depth exceeds approximately 10 meters. Factory setting is off underwater and on, on the surface.

**Hand** - The hand switch is designed to be used in conjunction with the pressure switch. The hand switch is operated by turning the cam 90°, to press against the diaphragm of the pressure switch.

### HOUSING

The strobe is self-contained in its underwater, hard black, anodised aluminium housing. The housing consists of two parts - a cylindrical can and end plate.



# ST4K

## Underwater Emergency Rechargeable Xenon Strobe

### REMOTE HEAD

A remote head option is available, where the xenon tube with its acrylic housing is separated from the main housing, by a 1 meter cable assembly. This option allows the user to position the head in confined places.

