

# C1002 Operation Manual

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## 1 FEATURES

- 1.1 Manually turning on the light by setting the switch to the right.
- 1.2 Bluetooth Mode by setting the switch to the center position.

## 2 SAFETY WARNINGS

- 2.1 This is not a toy and should be treated as such. The SOS function should only be used in an emergency.
- 2.2 Use only premium CR123A Lithium batteries.
- 2.3 Do not mix batteries from different manufacturers.
- 2.4 Do not mix fresh and used batteries.
- 2.5 Observe the proper polarity installation of the batteries.
- 2.6 Dispose of the used batteries properly.
- 2.7 Do not look directly at the light; it is extremely bright. In addition, it contains an infrared LED; emitting infrared light which cannot be seen.
- 2.8 The red collar can become warm during extended operation. If used as a handheld device, do not touch the collar during operation.

## 3 MODES

### 3.1 Manual Mode

Turn the switch to the left (the third detente). The light will begin the SOS pattern; 3 short Orange Red flashes followed by 3 longer Cyan flashes again followed by 3 Orange Red flashes. The pattern repeats.

### 3.2 Bluetooth Mode

Move the switch to the middle position (the second detente). Use the Sirius Signal application to turn on the light (available by registering your device at [www.siriussignal.com](http://www.siriussignal.com)). Open the application and press the Test Light button. It might take up to 30 seconds to connect. Upon connecting, the light will begin the SOS pattern. 3 short Orange Red flashes followed by 3 longer Cyan flashes again followed by 3 Orange Red flashes. The pattern repeats.

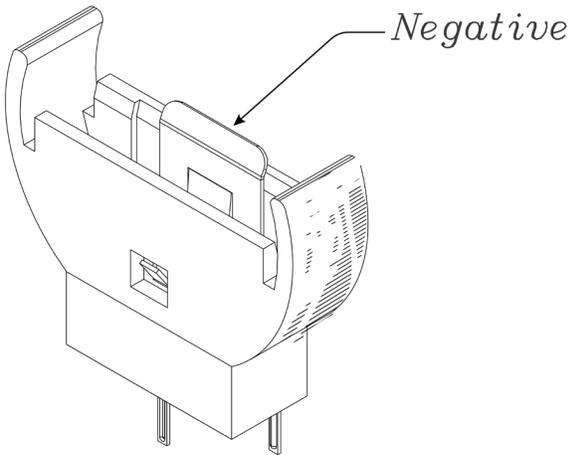
Bluetooth Mode requires a cell phone with the Sirius Signal Application to work.

## 4 CHANGING BATTERIES

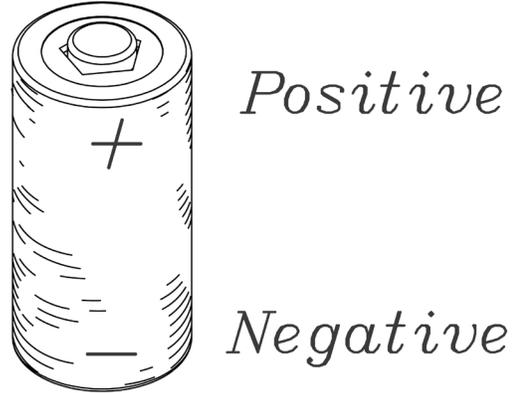
The light requires eight premium CR123A batteries and one CR2032 Lithium coin cell. The light will operate without the coin cell, but it is required as a backup for the Bluetooth. Periodically, the state of the batteries should be checked by turning the light on for a moment. The battery capacity can also be checked by switching the light to Bluetooth Mode. The Sirius Signal Application will report the capacity on the first page. Green signifies charged batteries, red signifies low charge.

To replace the batteries, unscrew the red collar and gently lift the LED module out of the housing. Remove the spent batteries and replace them with the new batteries observing the proper polarity. See Figures 2 and 3 below. The polarity is shown on the battery holder for the CR123A batteries. Use good quality batteries. Replace the coin cell (CR2032) with the positive side facing the outside of the module. See Figure 1.

Replace the LED module. Rotate the optic until you feel it catch on the indexing tabs. Holding the module in place, screw the red Collar down until it is tight and the mark on the collar and the switch handle align. See Figure 4 below. It should rotate smoothly. If not, re-seat the LED module and try again. Momentarily turn on the light to test everything is assembled properly.



*Figure 1: Polarity of CR2032 Coin Cell*



*Figure 2: Polarity of CR123A Batteries*

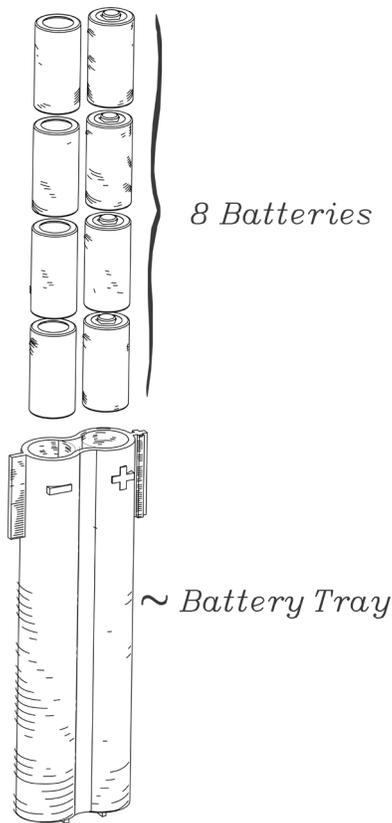


Figure 3: Installation of CR123A Batteries in Battery Tray

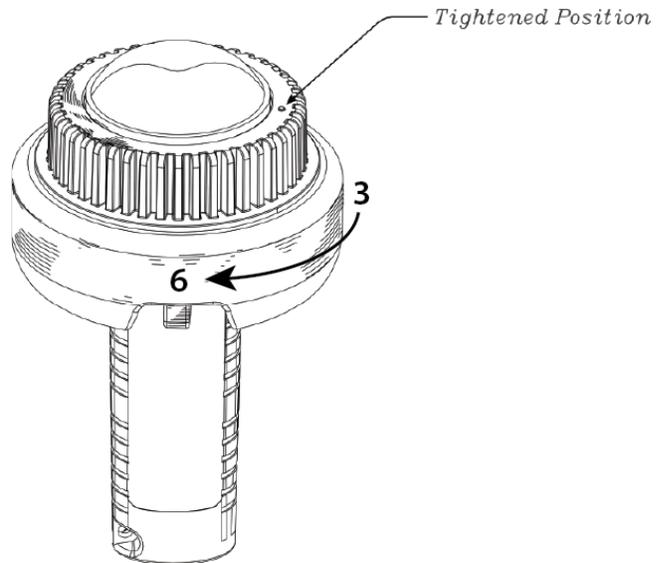


Figure 4: Illustration of Collar Position When Properly Tightened

## 5 SPECIFICATIONS

### 5.1 Environment

The operating temperature range is  $-1^{\circ}\text{C}$  to  $+30^{\circ}\text{C}$  ( $30.2^{\circ}\text{F}$  to  $86^{\circ}\text{F}$ ), and the storage temperature range is  $-20^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$  to  $131^{\circ}\text{F}$ ).

### 5.2 Buoyancy

The device is capable of floating with the light output fully visible above the waterline in calm fresh or salt water. It is also submersible.

### 5.3 LED Wavelength

6 red-orange 610-620 nm 6 cyan 490-520nm 1 IR 740-890 (Flashes USCG spec SOS signal in colors and infrared)

## **5.4 Run Time**

Performance specification run time – 2 hours. The C1002 has an innovative feature that allows the light to continue after the specified 2 hours at half power illuminating half of the LEDs. This extends the total operational run time approximately 7 hours.

## **5.5 Average Effective Intensity for Visual Light**

For the Orange Red and Cyan LEDs, the Average Effective Intensity exceeds 50cd in a hemispherical distribution.

## **5.6 Average Effective Intensity for Infrared Light**

The Infrared LED output is described in a different way. It significantly exceeds 21mW/Sr; again in a hemispherical distribution.

## **5.7 Switch Design**

- 5.7.1 Self Cleaning Lever
- 5.7.2 Accidental Switch Activation Protection

## **5.8 Battery Requirement**

*Requires 8 CR123A batteries (included) and one CR2032 coin cell.*

## **5.9 Bluetooth**

*Bluetooth enabled with enhanced connectivity*

## **5.10 Dimensions**

- 5.10.1 Height: 8.5” (21.59cm)
- 5.10.2 Diameter: 5” (12.70cm)

## **5.11 Weight**

- 5.11.1 Without batteries: 1.080 lbs
- 5.11.2 With batteries: 1.366 lbs
- 5.11.3 Shipping Weight: (with packaging): 1.708 lbs, P/N SOS C-1002

## **5.12 Additional Compliance**

- 5.12.1 CE (European Compliant)
- 5.12.2 RoHS Compliant

## 6 DISPLAYING THE LIGHT

The light can be used as a handheld location device that can be manually operated. In addition, the light can be attached to the craft and displayed at a higher point such as optional mount or rod holder so that the light can be seen at a greater distance (See Table 1). First put the light in Bluetooth Mode.

After positioning the light, use the Sirius Signal Application to turn on the light.

The distance to the horizon, the practical limit on the distance any light can be seen, can be estimated by the following formula:

1.17 times the square root of your height of eye = Distance to the horizon in nautical miles.

## 7 MAINTENANCE

**The light can be cleaned with a soft cloth and warm water.**

## 8 THE SIRIUS SIGNAL SYSTEM

As a precision safety device, the light provides an intense visual SOS for greater than 2 hours. It is the “Locate” part of Sirius Signal's “Alert and Locate” system.

**This system is composed of an application that comprises the “Alert” part of the system. This application allows you to send text and phone messages to recipients you select to alert them you have a problem. The light provides the “Locate” function to allow respondents to find you.**

## 9 THE SIRIUS SIGNAL APPLICATION

You can register your device at <https://siriussignal.com/owners/> Registration allows you to download the Sirius Signal application to your phone. You will be allowed multiple downloads of the Sirius app with the issued product code key. If you are not the original purchaser of the Sirius Signal C-1002 SOS eVDS but, it is part of your boat's safety equipment you will need to re-register as the new owner of unit. A small fee is required. Go to the Sirius Signal website. Click on store then purchase choose new product code key.

### 9.1 Installation of Phone Application

#### 9.1.1 Android

Open a browser, locate the APK file you want and tap to download. You should be able to see it downloading on the top bar of your device. Once it's downloaded, open downloads and tap on the APK file. Tap “Yes” when prompted. This will install the app on your device.

#### 9.1.2 iPhone

Open the Apple Store App, locate the Sirius Signal application file, tap “Get” and tap “Install”. This will install the app on your device.

## **9.2 Operation of Phone Application**

Tap on the Sirius Signal Icon to open the application.

### **9.2.1 Home Page**

Clicking the “Test Light” button toggles the light on or off if the switch on the light is in the center position.

Clicking on the blue box or clicking on the triple bar on the upper left and choosing “Contacts” allows one to enter a list of contacts for the “Check-Me” or “SOS” functions.

Clicking on the purple box shows your position and that of other users around you.

Clicking the white “Start Trip” button sends you to the “Float Plan” form provided to inform others of the details of your trip.

Clicking on the yellow Check-Me button causes the program to send the previously setup message to the previously setup list of Check-Me recipients.

Clicking on the red SOS button causes the program to send the previously setup message to the previously setup list of Emergency recipients.

### **9.2.2 Test Light**

This button toggles the C1002 light on and off. Set the switch on the light to the center position. Place the device in an open position where it can be seen, the higher the better. Then open the Sirius Signal application and tap the “Test Light” button. It can take up to 30 seconds to connect. The light will then turn on and begin flashing SOS.

### **9.2.3 Float Plan**

Fill out the Float Plan to describe your trip. List the Passengers Aboard, preferably in alphabetic order. Add the area of operation or final destination. If you will be going to multiple destinations, list them. Enter your departure and arrival times so that respondents will know when you are expected back. List any medical conditions those on board have; add the person’s name and condition. Add a description of the vessel. Then click “Submit”.

### **9.2.4 Contacts**

Contacts are entered one by one. You can enter the information manually or import the entries from your phone’s contact list. Also, there are two contact lists. One for the Check-Me function and one for the Emergency function. There are Labels above the list, Check-Me and Emergency. Tap on the label to select that list.

To enter a contact in either list, select the “Add” button at the bottom of the CONTACTS menu. Either manually enter the information or import the contact information.

To import a contact, select the “Import” button next to the blank contacts fields. Check the box next to the entry you would like to import, then tap the check mark in the upper right of the page.

Import also includes a search function. Type in a name on your contact list and the application searches as you type.

Above the contact entry list but below the labels is a region where you can enter a message for either function. Type in a message to be sent by text and by an electronic cell phone call. For example, one might say, "Emergency; need assistance. Sweet Ann's Ride" for the emergency message. For the Check-Me function, one might say, "The trip is going well, just checking in."

### **9.2.5 Check-Me**

This feature allows you to "check in" with a previously defined group.

### **9.2.6 SOS**

This feature allows you to send an Emergency message to a previously defined group.

### **9.2.7 First Aid**

Click on the First Aid icon. On the sketch of a man, tap on the body part that has a problem. A list will appear. Tap on the item on the list to invoke a discussion concerning how to address the issue.

## **10 TROUBLESHOOTING**

### **10.1 Light won't light**

#### **10.1.1 Batteries exhausted**

Replace with 8 CR123A good quality batteries.

#### **10.1.2 One or more batteries reversed**

Inspect batteries for correct polarity; correct if needed

#### **10.1.3 Battery or switch contacts corroded**

Clean contacts with an eraser.

### **10.2 Only half of the LEDs light**

#### **10.2.1 Batteries exhausted**

Replace with 8 CR123A good quality batteries. The C1002 has a feature that allows the light to continue after the Specified 2 hours at half power using half of the LEDs.

#### **10.2.2 Broken wires**

Return to manufacturer for repair.

**SKU: SSDC1002-ROC**

**Proudly made in the USA. (Complies with “Buy American Act” – may contain imported components.)**  
**Patent Pending**

