

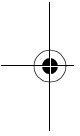
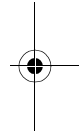


# LifeTag System

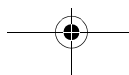
## Operating Guide

Document reference: 81275-1  
Date: April 2006

Draft copy 06/04/06



# Raymarine



## Important Information



### **WARNING:LifeTag System**

**The Raymarine LifeTag system is only an aid to crew safety, and must not be relied upon as the vessel's main crew safety system. It is the responsibility of the Captain and all crew members to ensure that all safety instructions and procedures are in place and obeyed in accordance with local requirements. Failure to operate this system in accordance with the operating instructions may result in unreliable or reduced system performance.**



### **WARNING:Lithium Batteries**

**The LifeTag System Tags use non-rechargeable lithium batteries. Do not attempt to recharge these batteries. Do not incinerate these batteries. Ensure that these batteries are replaced with a battery of the same type and check local regulations when disposing of spent batteries. Incorrectly fitting batteries or using the wrong battery types may result in un-reliable or reduced system performance.**

### **General Care & Safety**

The operation of some medical electronic devices, such as hearing aids and pacemakers, may be affected if a LifeTag or LifeTag Base Station is used next to them. Observe the makers recommendations for such devices.

### **RF Energy**

The LifeTag and LifeTag Base Station are low-power radio transceivers. When on, they intermittently transmit RF energy (radio waves). The LifeTag and LifeTag Base Station are designed to comply with the limits for RF energy exposure for the general population set by national authorities and international health agencies, for example BS EN 50371:2002.

### **Intended Use**

The LifeTag and LifeTag Base Station are intended as an aid to safety on leisure vessels and small workboats.



### **Waste Electrical and Electronic (WEEE) Directive**

The WEEE Directive requires the recycling of waste electrical and electronic equipment.

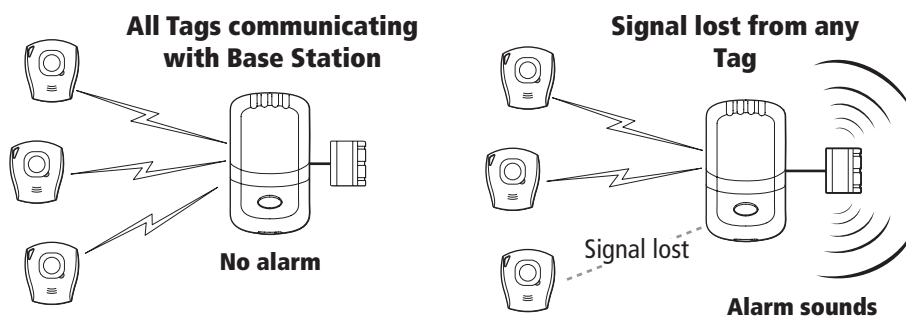
Whilst the WEEE Directive does not apply to some of Raymarine's products, we support its policy and ask you to be aware of how to dispose of this product.

The crossed out wheeled bin symbol, illustrated above, and found on our products signifies that this product should not be disposed of in general waste or landfill.

Please contact your local dealer, national distributor or Raymarine Technical Services for information on product disposal.

## LifeTag System Operating Guide

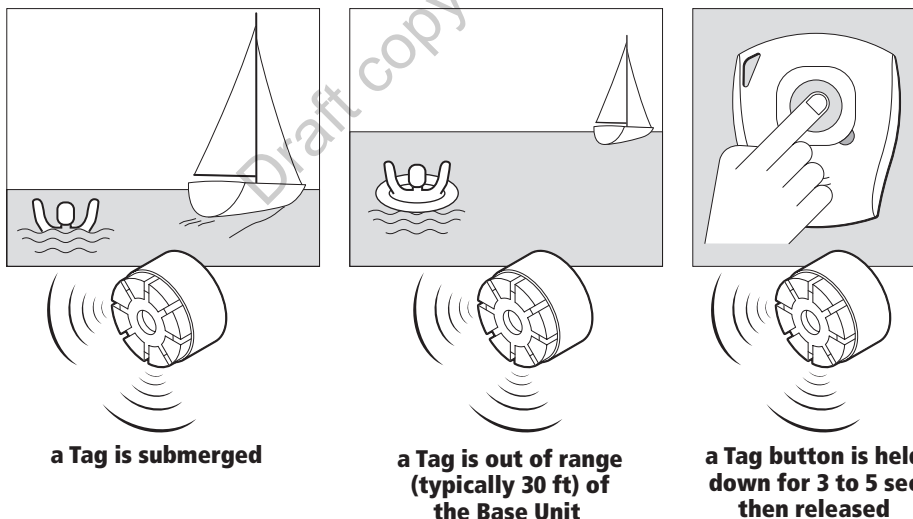
### The LifeTag system



### SeaTalk alarms

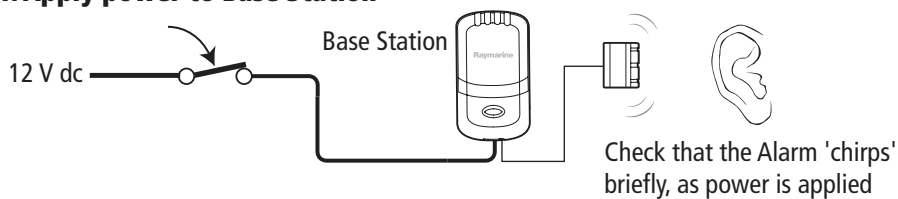
If a LifeTag alarm occurs, a SeaTalk alarm will also be initiated if your LifeTag Base Station is connected to SeaTalk. For details of how SeaTalk alarms are indicated, refer to the handbooks for your other SeaTalk products.

### The LifeTag system will sound an alarm if ...

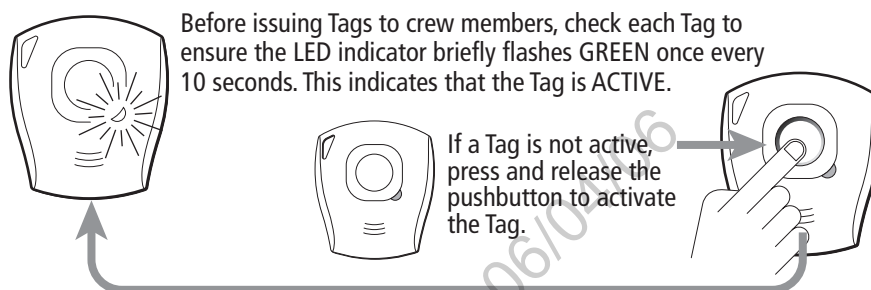


## Getting started

### 1. Apply power to Base Station



### 2. Ensure Tags are Active



If the indicator shows any other indication, check below to determine what to do.

### 3. Issue Tags to crew

Issue Tags to your crew members, then instruct them how to use the LifeTag system.

- What to do if an alarm occurs
- How to carry Tags
- What will initiate an alarm
- How to know if a Tag is active
- How to know when a battery needs changing

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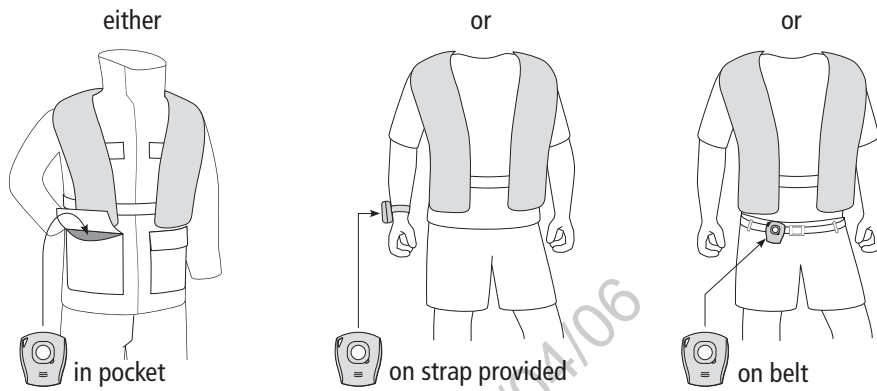
## Tag LED indications

| Color       | Action                                      | Meaning                                                                                                                             |
|-------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| GREEN       | Brief flash once every 10 seconds           | Normal operation. The Tag is ready for use.                                                                                         |
| GREEN & RED | Continuous alternating flashes              | Searching for Base Station. Wait for a few seconds. If normal operation does not start, check that the Base Station is switched on. |
| RED         | Two flashes once every 10 seconds           | Low battery. Replace the battery as described in this guide.                                                                        |
| RED         | Continuous half-second flashes every second | Alarm indication. Carry out the Man Overboard procedure.                                                                            |
| RED         | Continuous brief flashes                    | Tag is de-registered.                                                                                                               |

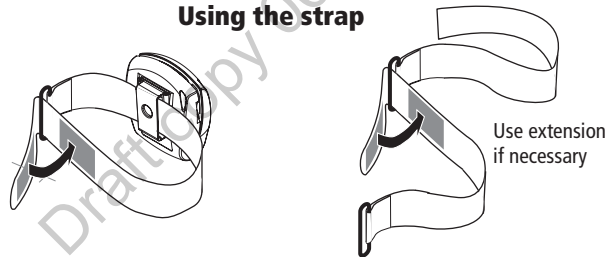
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## Wearing your Tag

**Ensure each crew member carries an active Tag at all times when on board.**



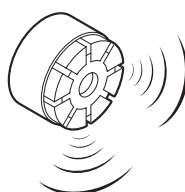
### Using the strap



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## What happens when an alarm occurs?

### When an alarm is initiated



#### The Alarm buzzer sounds



#### On active Tags

The indicator flashes RED continuously, half-second flashes every second

#### Optional 12 V output

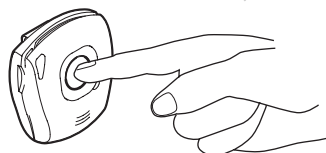
When an alarm condition exists, the Base Station optional, switched output provides 12 V as a switching voltage, for external equipment.

#### Other SeaTalk products

If the LifeTag Base Station is connected to a Seataalk system which includes a SeaTalk chartplotter and GPS, and a LifeTag alarm occurs, a MOB marker will be displayed on the chartplotter at the location of the MOB event. In addition, the chartplotter and compatible Seataalk instruments (such as ST60+ and ST290 Graphic instruments) will display a MOB 999 Waypoint Name, and range / bearing or latitude/longitude to the MOB location, plus elapsed time since the MOB event.

This occurs only with compatible products on SeaTalk systems. It does NOT occur on other products connected via NMEA0183.

### To cancel a LifeTag alarm



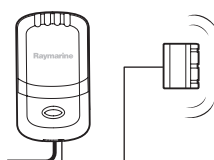
Hold in a Tag button for 5 seconds

**Note:** This will NOT cancel alarms on associated SeaTalk products. Refer to relevant product handbooks for details of how to cancel these alarms.

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## Tag low battery warning

### If the Base Station detects that a Tag battery voltage is low:



The Alarm 'chirps' briefly, every 10 seconds

If this occurs, all users should check their Tags for a low battery voltage indication (2 RED flashes every 10 seconds). If necessary, replace the battery.

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## Replacing battery

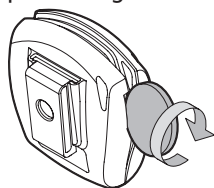


**Do NOT** use a sharp object to open a Tag

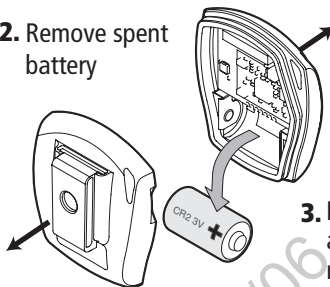


**Do NOT** open a Tag in wet or dirty conditions

### 1. Open the Tag



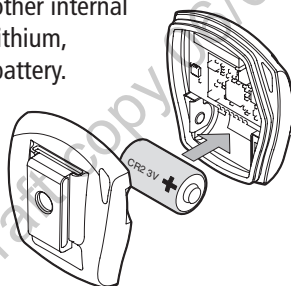
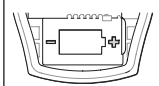
### 2. Remove spent battery



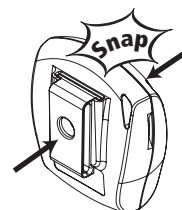
### 3. Discard spent battery in accordance with local regulations

### 4. Taking care not to disturb other internal components, insert NEW, lithium, non-rechargeable CR2 3V battery.

**Important!**  
Ensure correct polarity



### 5. Replace the Tag back and snap shut



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## Looking after your LifeTag system

Periodically clean the Base Station and Tags, use a clean damp cloth. Do NOT use chemical or abrasive cleaning agents.

Periodically clean the strap by washing it in fresh water and combing the velcro sections to remove dirt, fluff etc.

If you are planning not to use the LifeTag system for an extended period (e.g. over winter), remove the batteries from the Tags, to increase battery life.

Store all components in a dry location, out of direct sunlight, when not in use.

Never open a Tag unless you want to remove or replace the battery.

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## Troubleshooting

| Fault                                                           | Possible cause                                                                  | Action                                                                                                                                                                                         |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Base Station indicator lit but buzzer does not sound            | Buzzer connection faulty                                                        | Ensure buzzer is connected to correct terminals on Base Station<br>Check that buzzer 'chirps' when power is first switched on                                                                  |
| Cannot register Tag                                             | Tag not powered up<br>Tag battery discharged                                    | Ensure Tag battery is correctly installed<br>Replace battery                                                                                                                                   |
| Base Station indicator does not light and buzzer does not sound | Base Station not powered up<br><br>Tag not powered up<br>Tag battery discharged | Check Seataalk cable is correctly connected and apply power to SeaTalk<br>Check that the SeaTalk system is operating correctly<br>Ensure Tag battery is correctly installed<br>Replace battery |
| Alarm sounds when there is no alarm condition                   | Tag out of range                                                                | Perform site survey as described in LifeTag System Installation & Commissioning Guide. If unsatisfactory, redeploy system components to improve signal coverage                                |
| Buzzer 'chirps' briefly every 10 s                              | Tag battery low                                                                 | All users to check for low Tag battery and replace as necessary                                                                                                                                |

## General information

### FCC Information

The LifeTag and LifeTag Base Station comply with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) these devices may not cause harmful interference and (2) these devices must accept interference received, including interference that may cause undesired operation.

Changes or modifications to these devices not expressly approved in writing by Raymarine could violate compliance with FCC rules and void the user's authority to operate the equipment.

### Declaration of Conformity

Raymarine UK Ltd. hereby declares that the LifeTag and LifeTag Base Station are in compliance with the essential requirements and other relevant provisions of the R&TTE Directive 1999/5/EC.

The original Declarations of Conformity may be viewed on the relevant product pages at [www.raymarine.com](http://www.raymarine.com).

### Approvals

|                 |                           |                                        |                       |
|-----------------|---------------------------|----------------------------------------|-----------------------|
| EU              | R&TTE Directive 1995/5/EC |                                        |                       |
| USA             | FCC Part 15               | FCC ID: PJ5-LTB (LifeTag Base Station) | PJ5-LTT (LifeTag)     |
| Industry Canada | RSP100                    | ID IC4069B-LTB (LifeTag Base Station)  | IC4069B-LLT (LifeTag) |

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