

# **LifeTag System**

## Operation Guide

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**Raymarine**

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## Important Information



### WARNINGS: LIFETAG SYSTEM

- 1. The Raymarine LifeTag System is an auxiliary safety system, intended ONLY to provide additional protection to the vessel's crew. DO NOT rely solely on this system for crew safety; DO ensure that all safety instructions and procedures are obeyed in accordance with local requirements.**
- 2. Failure to operate the LifeTag System in accordance with its operating instructions may result in unreliable or reduced system performance.**
- 3. 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 manufacturers' recommendations for such devices.**

### CAUTION: 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 batteries 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 unreliable or reduced system performance.**

### 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.

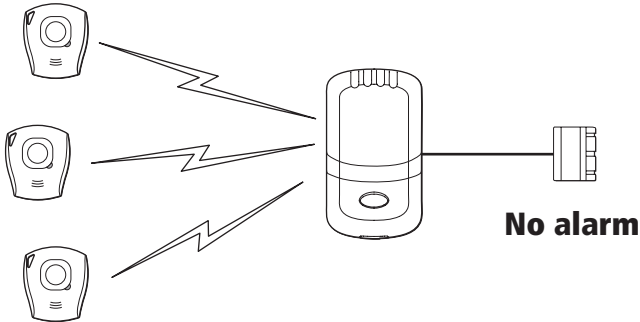
Please contact your local dealer, national distributor or Raymarine Technical Services for information on product disposal.



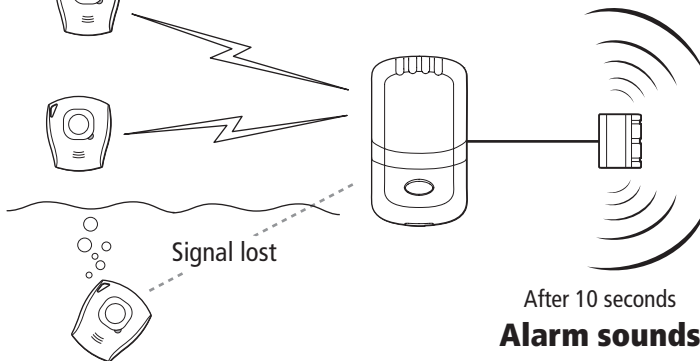
# LifeTag System Operating Guide

## The LifeTag system

### All Tags communicating with Base Station



### Signal lost from any Tag



#### Note:

A built-in 10 second delay is included, between the initial signal loss and the alarm sounding, to minimise the likelihood of false alarms occurring.

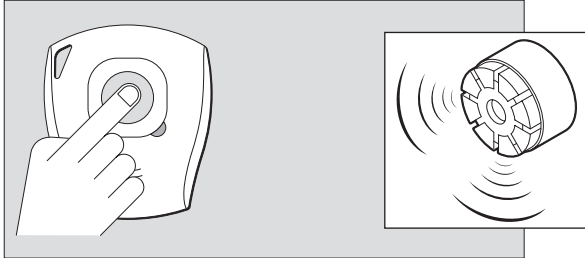
#### SeaTalk alarms

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

## Alarm conditions

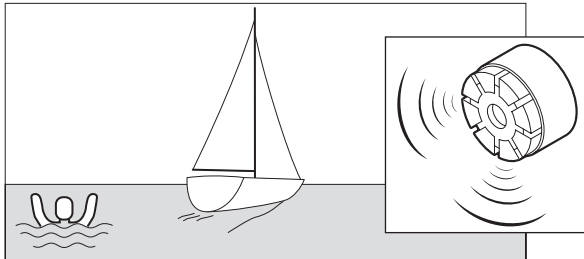
### The LifeTag system will sound an alarm ...

**after a Tag button has been held down for 5 sec**

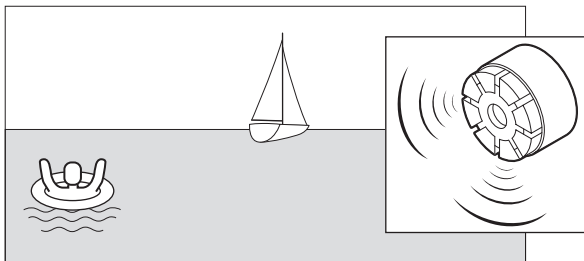


If you see someone fall overboard, **IMMEDIATELY hold down the button on your Tag** for 5 seconds, to activate the MOB alarm

**if a Tag is submerged for 10 seconds or more**



**if a Tag is out of range of the Base Unit for 10 seconds or more**

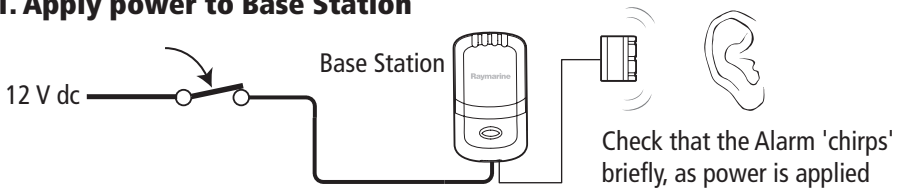


### **IMPORTANT**

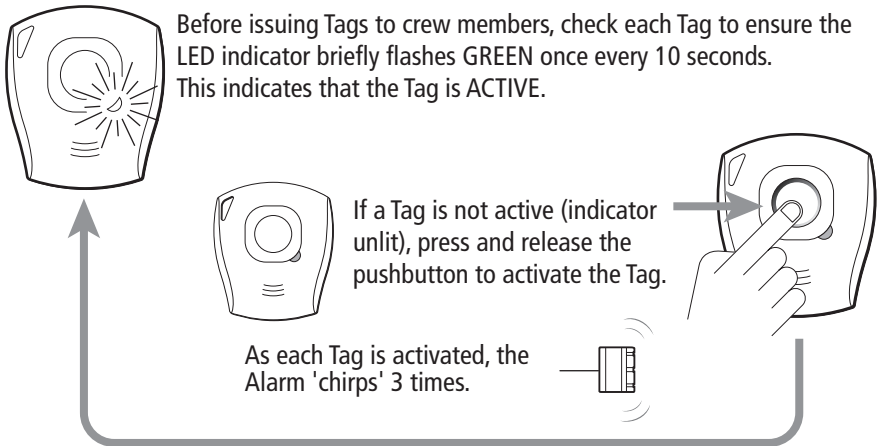
**When an alarm condition exists, the LifeTag system will not initiate another MOB alarm until the first alarm has been cancelled.**

## Getting started

### 1. Apply power to Base Station



### 2. Ensure Tags are Active



If a Tag indicator does not flash green once every 10 seconds, then the Tag is not active. Check the table on page 4 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. With reference to this Operating Guide, explain:

- 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 Tag battery needs changing

## Tag LED indications

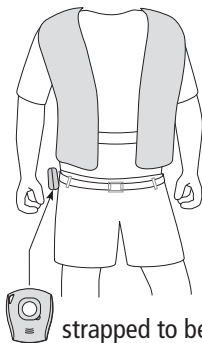
Color	Action	Meaning
GREEN	Brief flash once every 10 seconds	Normal operation. The Tag is active and ready for use.
GREEN & RED	Continuous alternating flashes	Searching for Base Station. Wait for a few seconds. If normal operation does not start, check that the Base Station is switched on.
RED	Two flashes once every 5 seconds	Low battery. Replace the battery as described in this guide.
RED	Continuous brief flashes	Tag is de-registered.
Unlit	-	Tag has automatically powered down. Briefly press the Tag button to switch on.

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## Wearing your Tag

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

either

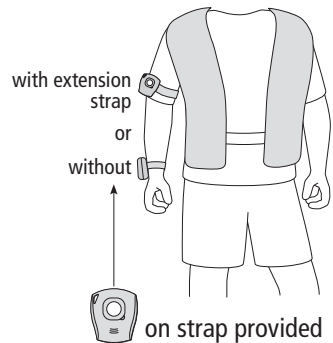


(recommended for optimum performance)

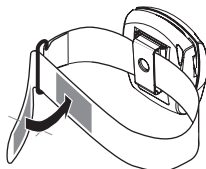
or



or



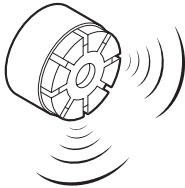
### Using the strap



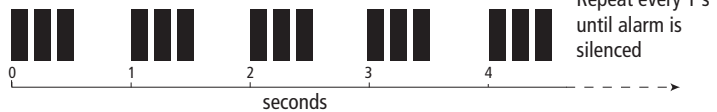
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## What happens when an alarm occurs?

### When an alarm is initiated



#### The Alarm buzzer sounds



#### 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, until the alarm is silenced.

#### Other SeaTalk products

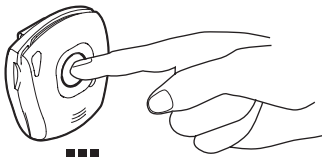
If the LifeTag Base Station is connected to a SeaTalk system which includes a SeaTalk chartplotter and GPS, and a LifeTag alarm occurs, a MOB marker will be displayed on the chartplotter at the location of the boat when the alarm is activated. In addition, the chartplotter and compatible SeaTalk instruments (such as ST60+ and ST290 Graphic instruments) will display a dedicated MOB alarm page.

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

If a LifeTag alarm is canceled from another SeaTalk product, this will cancel the entire MOB event, so that all displayed MOB information, including the MOB waypoint, will be removed.

**Important:** The accuracy of the recorded position of the MOB event is dependent on boat speed, tide, wind speed etc, so you should take this into account when locating the man overboard.

### To silence an alarm

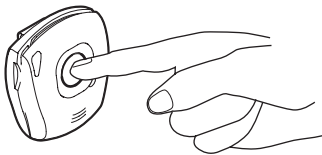


Hold in a Tag button for 5 seconds

**Note:** This will NOT cancel the alarm, but will reduce the alarm to 3 beeps every 30 seconds.



### To cancel a LifeTag alarm



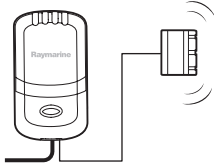
1. Silence the alarm, as described above.
2. Release the Tag button, then wait for at least 15 seconds.
3. Hold in the Tag button for a further 5 seconds.

### After an alarm

After an alarm, when the MOB incident has been resolved, ensure all Tags are active, by checking that the indicator on each Tag flashes green once every 10 seconds.

## 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 5 seconds).  
If necessary, replace the battery.

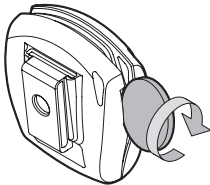
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## Replacing Tag battery

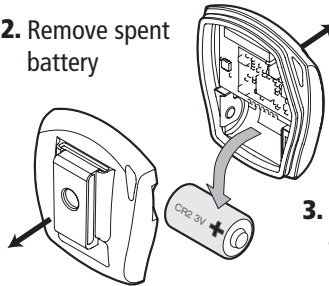
**Before removing a Tag battery, you are recommended to temporarily turn off power to the Base Station, to prevent unwanted alarms.**



**1. Open the Tag**

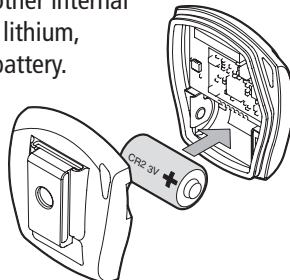
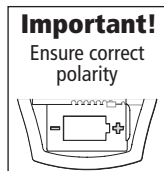


**2. Remove spent battery**

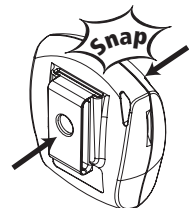


**3. Discard spent battery in accordance with local regulations**

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



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



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## Looking after your LifeTag system

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

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

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

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.

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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 Check that buzzer 'chirps' when power is first switched on
Cannot register Tag	Tag not powered up Tag battery discharged	Ensure Tag battery is correctly installed Replace battery
Base Station indicator does not light and buzzer does not sound	Base Station not powered up	Check SeaTalk cable is correctly connected and apply power to SeaTalk Check that the SeaTalk system is operating correctly
No indication on Tag indicator (indicator unlit)	Tag not powered up	Ensure Tag battery is correctly installed
	Tag battery discharged	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
Tag LED flashes RED and GREEN alternately	Tag has lost contact with the Base Station	Ensure Base Station is switched on. If OK, de-register, then re-register Tag as described in the LifeTag Installation & Commissioning Guide

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## General information

### FCC and Industry Canada information

The LifeTag and LifeTag Base Station comply with US CFR47 part 15 Rules and with IC Standard RSS210. 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 or IC 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 IC:4069B-LTB (LifeTag Base Station)	IC:4069B-LTT (LifeTag)

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