



ISSUE 1224UA

ELECTRONIC LOCATOR BEACON

Salcom Model No: 12-24-0000



FOR EMERGENCY USE ONLY

Deliberate misuse may incur a severe penalty

SALCOM 12-24-0000 ELB ELECTRONIC LOCATOR BEACON

Salcom's ELB Transmitter transmits a signal on the International Distress frequency of 121.5Mhz. It is primarily designed as a man overboard emergency beacon, but is equally applicable to divers who may surface away from their tender. The Salcom ELB can be used in conjunction with a monitoring receiver which sounds an appropriate alarm.

Range is dictated by the location and elevation of the receiver, the sea condition, or the typography in which the ELB has been activated. This will vary from a few hundred meters at sea level to many kilometers if monitored by aircraft. The 121.5Mhz distress frequency is monitored by civil and military aircraft and is also monitored by satellite until February 2009.

It is important that the ELB is used only in genuine emergencies to avoid false satellite and aircraft alerts.

Deliberate misuse may incur a severe penalty

FEATURES

The ELB contains a 100mWatt transmitter and incorporates the following features:

- (1) Antenna integrated into the neck strap ensuring minimal intrusion.
- (2) Buoyant.
- (3) Neck strap may be detached and the unit fitted to life jacket support or suspended in a vertical position in a land based application.
- (4) Bright white indicator lamp showing operation and as a visual aid.
- (5) Internal siren to indicate operation
- (6) Automatic (water) activated when set to the "READY" position
- (7) Manual test function as well as Manual alarm if required.
- (8) Standard siren sweep modulation plus two forms of identification. Morse code (serial number only) and serial data of pre-programmed serial number and may be individually programmed by user with up to 20 character messages for individual identification.
- (9) Fully watertight to greater than 10 metres.
- (10) Long storage and operational life lithium battery.
- (11) By using the companion SALCOM 12-25 ELB receiver, alarm notification, visual display identification and a variety of functions may be enabled.

TO OPERATE MANUALLY

- (1) Set the slide switch to "READY"
- (2) Press the red button for 3 seconds until the light flashes. A siren will be heard and the light will regularly flash every 3 seconds.
- (3) STOP the transmission by returning the slide switch to "OFF".

TO OPERATE AUTOMATICALLY

- (1) Set the slide switch to "READY"
- (2) If the ELB is immersed in water, the transmission sequence will begin automatically.
- (3) **Note:** *if necessary, manual activation is still possible by pressing the red button for 3 seconds until the light flashes.*
- (4) STOP the transmission by returning the slide switch to "OFF".

IMPORTANT. When not in use ensure the operating slide switch is in the "OFF" position.

TO TEST

- (1) Ensure the slide switch is in the "OFF" position.
- (2) Press the red button for 3 seconds or until the light extinguishes.
- (3) A brief siren burst should be heard and the lamp will flash.
One flash indicates the ELB is functioning normally.
Five rapid flashes indicates the battery is low and should be replaced.

DIVING USE

The ELB is suitable for identifying the location of a diver should he or she surface out of sight of the tender. During the dive, the ELB can be carried in a suitable dive container. (see www.divecontainers.com)

If the diver surfaces and is unable to locate the tender, the ELB should be operated as per the previous instructions.

Note: It is important that the ELB switched to the "OFF" position once the diver is aware he/she has been located to avoid initiating a full search and rescue operation.

THE ELB IS NOT CAPABLE OF UNDERWATER TRANSMISSION.

LAND USE

The ELB operates on the International Aircraft distress frequency which is monitored by civil and military aircraft. Range is dictated by the topography, vegetation, location and height of the aircraft monitoring 121.5 MHz.

Improved range can be achieved by securing the lanyard strap vertically if a suitable support is available.

NOTE: THIS IS NOT A SUBSTITUTE FOR A 406 MHZ EPIRB OR PLB

IDENTIFICATION

The Salcom ELB transmits two types of identification :-

- (1) the ELB serial number in morse code
- (2) serial data which can be decoded and displayed by the SALCOM 12-25 monitoring receiver.

The serial data and morse code can be decoded and displayed by the Salcom 12-25-0000 Monitoring Receiver.

The transmitted morse code can also be decoded by other monitoring services.

MAINTENANCE AND SERVICE

- (1) Always ensure that the slide switch is in the "OFF" position when stored or not in use.
- (2) Always "TEST" before use.

BATTERY REPLACEMENT

Only 9 volt Lithium batteries should be used. Other types (such as carbon zinc or Alkaline will severely compromise performance).

PROGRAMMING

The morse code identification is always programmed with the ELB serial number.

Authorised dealers can individually program the ELB with an identification string of up to 20 characters. This data can only be displayed on the SALCOM 12-25 monitoring receiver.

WARNING

Deliberate and malicious use causes unnecessary events for Search and Rescue authorities.

Switch OFF your ELB when it is not in use.

YOU HAVE 5 SECONDS TO SWITCH OFF ONCE THE LAMP STARTS FLASHING BEFORE AN ALARM IS SENT.

WARRANTY

5 years

SPECIFICATIONS

- Dimensions: 65 x 80 x 30mm.
- Weight: 146 gms.
- Frequency: 121.50Mhz (121.4 & others to order)
- R.f Power output: (50 ohm) 100mWatts.
- Transmission mode: A.M. Downward swept cycle between 300-1600Hz
- Data identification: Serial 600 baud (selectable) and Morse code – 12 wpm
- Endurance up to 24 hours
- Securing – neck lanyard.
- Antenna – built into lanyard – flexible
- Water activation after 3 seconds
- Battery: U9V-J Lithium - shelf life – 10 years
- Standards: Designed to meet AS/NZS 4869.1.2006 & ETSI EN300 152

SEA AIR & LAND COMMUNICATIONS LTD

PO Box 22-621, 120 St.Asaph Street, Christchurch, New Zealand
Phone: (03) 379-2298 Fax: (03) 365-1580 Email: info@salcom.co.nz

Visit us at www.salcom.co.nz