

THE SCIENCE OF SURVIVAL



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User Manual - Y1-03-0332 Rev. A
Model: SARLink SOS-300
Product No.: 2893.x and 2893.xx
2894.x and 2894.xx



Owner/Organization Name:

CONFIDENTIAL & PROPRIETARY

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Welcome

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This manual is intended as a guide to the setup and use of this product. Every effort has been made to ensure the accuracy of this manual, however due to continuous product development this manual may not be accurate in all respects, therefore no guarantee is offered. If you are in any doubt about any aspect of this product, please contact your ACR representative.

Note: The 406 MHz Personal Emergency Beacon functionality of the SARLink SOS-300 is built to meet Cospas-Sarsat standards and for use by individuals engaging in activities where conventional means of rescue are not available. The SARLink SOS-300 is available in black and ACR-Treuse™ color.

PLEASE READ ALL WARNINGS, CAUTIONS AND NOTES CAREFULLY



CAUTION: Before proceeding to test or use your new ACR Electronics' product, please read this Product Support Manual in its entirety.



WARNING: The 406 MHz beacon must be promptly registered with the appropriate National Authority. Failure to register the beacon could delay a Search and Rescue (SAR) response and may be unlawful.



WARNING: The 406 MHz function is authorized for use only during situations of grave and imminent danger. Deliberate misuse may incur a severe penalty.



CAUTION: False alerts endanger lives and cause expensive disruption to Search and Rescue services, deliberate misuse of the beacon could result in penalty and fine.



CAUTION: Contains lithium batteries. Do not incinerate, puncture, deform, short-circuit or recharge (the 406 MHz battery may not be recharged but the Iridium battery can be recharged).



CAUTION: Do not dismantle the beacon, contains no user-serviceable parts.



Disposal: Remove the battery or batteries. Dispose of the used battery or batteries in accordance with local waste disposal regulations.



Air Travel: Product contains small lithium metal batteries that comply with IATA SP 188-PI 970 Air Cargo. Always check with air carrier about concerns for any additional restrictions.



WARNING: The Iridium functionality of this beacon does not meet any mandatory carriage requirements related to a 406 MHz ELT, EPIRB, or PLB.

*This device does not include a 121.5 MHz homing signal.

NOTE re: Applicable products

This manual supports all configurations of the SARLink SOS-300 (2893.x/2893.xx and 2894.x/2894.xx - where "x" and "xx" signify different versions of this product).

This User Manual and the SARLink Product Support Manual are available for download from the SARLink product page on the ACR web site.

406 MHz Registration

REGISTERING YOUR BEACON

As the owner of this 406 MHz beacon, and due to the global alerting nature of the Cospas-Sarsat satellite system, it is a requirement that you register the beacon with the National Authority of your country (eg. NOAA in the U.S., AMSA in Australia, the Civil Aviation Authority in New Zealand etc.). Please note that in many countries all 406 MHz beacons are required to have their registration updated every two years by the owner. Please check the requirements for your country of registration.

HOW REGISTRATION WORKS:

All 406 MHz beacons transmit a Unique Identifier Number (UIN) when activated. This UIN is programmed into the beacon based on the country in which the beacon is registered, thus authorities are able to determine which country's database will have your registration information. Information provided during registration is used only for rescue purposes and provides Search and Rescue (SAR) forces with information as to who you are as the owner of the beacon, the name and type of vessel that you have (if applicable), your address, and who to contact that might know of your current situation - but only if your beacon has been properly registered.

Valuable search and rescue resources are wasted every year responding to false alerts. Please register your beacon immediately (using the online database of your national authority, by letter, by fax, or by using the included registration card) to help resolve this issue of wasted resources.

The beacon must be registered in the country of the owner's residence. If the beacon is not programmed to that country's code and protocol, and the residence is outside of the USA, the beacon needs to be reprogrammed.

For a complete list of all countries with online registration links visit
www.acrartex.com/support/registrations/

Save Time! Register your beacon online at: www.beaconregistration.noaa.gov

Official 406 MHz PLB Registration Form
 Mail of P&H to: NOAA/SARSAT, NSOF, E/SPO5, 4201 Sulfur Beach, Sulfur, MO 64086, Fax: 301-417-4565

PLB Information
 Beacon ID (Unique Identifier Number) ABC01123456FFBFBFF
 PLB Manufacturer ACR Electronics Model No. RESQLINK PLB-375

PLB Registration
 New PLB Registration Replacement of PLB Decal
 Renewal of PLB Registration Check here if this PLB is a replacement for a previously registered PLB.
 Change of PLB Information or Ownership Please enter the old PLB Unique ID number _____

Owner/Operator Information
 Name Sample, John A Telephone _____
 Mailing Address 5757 Ravenswood Rd (654) 981-3333 New Renew Other
 City Fort Lauderdale State/Province FL (654) 983-9087 New Renew Other
 ZIP (Postal) Code 33312 Country USA _____
 E-mail _____

General Use Data
 Usage Commercial Non-commercial Government Military Government Non-military

Specific Usage
 Hunting Fishing Other _____

Type
 Land Vehicle Boat Aircraft None Other _____

Additional Data
 Land Vehicle: Jeep Wrangle White, License Plate Florida # ABC123
 Boat: 21' Center Console, Boat Name: S.S. EPIRB
 Next Schedule Fishing Trip is Feb. 3-5, 2011, 4 Persons on board, Leaving Ft. Lauderdale Heading to Bimini, 1 Person on board with Heart Problems.

Emergency Contact Information (Please indicate someone other than the owner)
 Name of Primary 24-Hour Emergency Contact: Jane Sample Name of Alternate 24-Hour Emergency Contact: Tom Sample
 Telephone (650) 123-4567 New Renew Other (650) 234-5678 New Renew Other
 (654) 981-3333 New Renew Other (654) 981-3333 New Renew Other
 (650) 235-8789 New Renew Other (650) 456-7891 New Renew Other
 _____ New Renew Other (650) 567-8910 New Renew Other

Signature John Sample Date 01/14/2011

If you have any questions about this form or web PLB registration in general, please call 1-800-210-SARV (7267) or 301-417-4515. For information on the U.S. Search & Rescue Qualified-Beacon Training system, please visit www.usarctc.noaa.gov. OMB (0548-0295) (Rev. 05-2008) 31-499-2989 At 25-1038 Page 2



The fastest and easiest way to register is online at
www.beaconregistration.noaa.gov/



Or Mail To:
 Department of Commerce
 NOAA SARSAT Beacon
 Registration
 NSOF E/SPO53
 1315 East West Hwy
 Silver Spring, MD 20910-3282



Or Fax To:
 Faxing a registration is also acceptable. Fax the registration form to 301-817-4565

False Alarms

Preventing false alerts

A false alert is any emergency SOS activation of the 406 MHz distress signal, intentional or otherwise, that does not result from a situation of grave and imminent danger. A false alert can also be initiated by inadvertently activating the Iridium-Only SOS mode when an emergency does not exist. In case of inadvertant activation, follow instructions in "Emergency Deactivation" section of this manual.

Be sure to do the following to help minimize false alerts:

Register your beacon. This does not reduce false alert rates; however, when the beacon is properly registered, the situation can usually be resolved with a phone call.

Be careful with whom you leave your beacon. Make sure that they know how to use it, and that they understand the ramifications of causing a false alert. A lot of false alerts are generated by curious individuals and the Cospas-Sarsat satellites detect 406 MHz distress beacon transmissions immediately and locate the transmission within a few minutes of beacon activation.

NOTE: If you report a false alert and the authorities have not received the signal, do not be concerned. This may mean that you were able to deactivate the beacon before transmitting the signal.

False alert

A 406 MHz false alert **must** be reported to the search and rescue authorities (see contact information at the bottom of this page).

406 MHz false alerts in the USA that are rectified must be reported to the US Air Force Rescue Coordination Center (AFRCC) to let them know that the situation has been corrected and everything is fine. Responsibly reporting these events to the AFRCC or your proper authority will not incur a penalty, but deliberate misuse or not notifying the proper authority may incur a severe penalty.

Reporting

Should there be a 406 MHz false alert for any reason, the information that should be reported includes:

- The beacon 15-digit Unique Identifier Number (UIN)
- Time and date
- Duration and cause of activation
- Location of beacon at the time of activation

To report 406 MHz false alerts outside of the USA, contact the national authority where your beacon is registered.

To report a 406 MHz false alert in the United States, contact:

United States Air Force Rescue Coordination Center (AFRCC)
Tel: 1-800-851-3051

Anatomy Of A Rescue

HOW THE BEACON'S 406 DISTRESS MESSAGE WORKS.

How your beacon summons help.

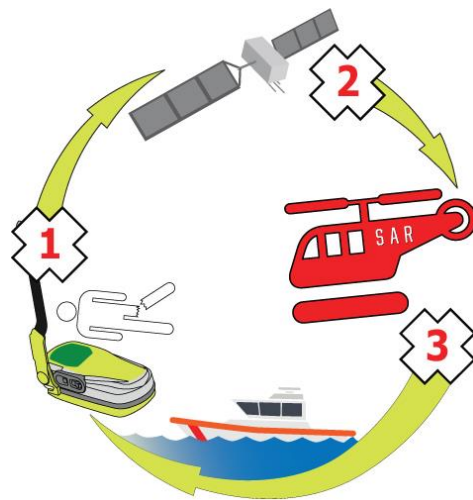
406 MHz beacons are a type of portable emergency equipment that transmits a distress signal to search and rescue (SAR) organizations. The purpose of these beacons is to aid SAR teams in tracking and locating ships or individuals in jeopardy as rapidly as possible.

The 406 MHz frequency is a worldwide dedicated emergency frequency that is detected by a network of satellites called the Cospas-Sarsat system. When a 406 MHz beacon is activated, the digital distress message is sent to Cospas-Sarsat satellites and, in turn, the distress message is relayed to SAR forces. The distress message contains the beacon UIN and the GPS location of the beacon. Additional information about the beacon is accessed by SAR forces from the beacon registration database.

HOW THE BEACON'S TWO-WAY DATA CAPABILITY (IRIDIUM FUNCTIONALITY) WORKS

The beacon sends two-way data communications in both normal mode and emergency mode via the Iridium Satellite Data Network. Iridium's constellation consists of low-earth orbiting (LEO), cross-linked satellites operating as a fully meshed network. Messages are relayed from one satellite to another until they reach the satellite above the Iridium Subscriber Unit and the signal is relayed back to earth. The Iridium functionality can allow you to have two-way SMS and email communications and transmit your GPS coordinates.

This device does not include a 121.5 MHz homer.



Learn more about the
Cospas-Sarsat
satellite system:
www.cospas-sarsat.org

Learn more about the
Iridium Satellite Data
Network:
www.iridium.com

Getting to know SARLink SOS-300

406 MHz & Iridium Antenna

- Do not hold, submerge, or obstruct view to sky

GPS Receiver Location

- Do Not Obstruct View To Sky

USB Port

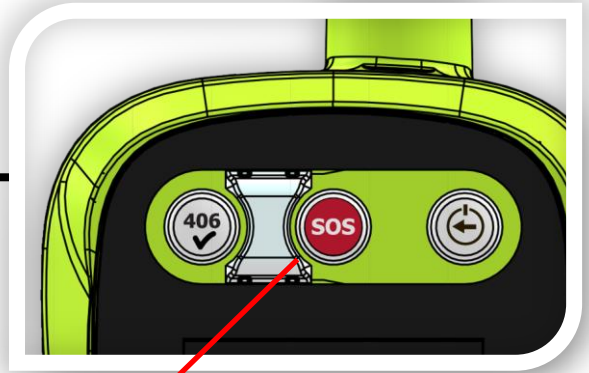
- See page 7 for information on powering on / charging

406 MHz Test Button / LED Status Display

- See page 12

Dedicated 406 MHz Battery

- Non-Rechargeable battery
- For Emergency Activation Situations Only



406 MHz and Iridium Distress Activation Button

- See page 9

Power / Back Button / LED Status Display

- See page 7 for on/off instructions
- Use as the Back Button during use to navigate screens

Touch Screen

- Press desired icon with finger tip or stylus (not provided) to navigate product features



Accessories



USB Cable



Lanyard



USB AC Adapter



Microfiber Cloth (screen cleaner & cloth contains additional labeling)

Powering On/Off & Charging

1. Remove the protective cover and insert the supplied USB cable here to recharge the Iridium battery.
2. Press the Power/Back button for 2 seconds to turn on the SARLink SOS-300 (press the Power/Back button for 2 seconds to turn off the SARLink SOS-300).















Note: The 406 MHz battery cannot be recharged. The 406 MHz battery should be replaced 7 years from the date of manufacture, or after use in an emergency, or prior to the battery expiration date shown on the SARLink SOS-300.

The Iridium battery can be recharged and should be recharged based on the status of the battery indicator symbol :



Status Bar Symbols

Symbol	Symbol Meaning
	Denotes the Iridium transceiver is off. To preserve battery life the Iridium transceiver will only turn on when transmitting a message or report.
	Denotes: (1) the Iridium transceiver is on with real-time signal strength represented by the number of vertical bars and (2) message transmission is in progress. The signal strength can range from the lowest of zero to the highest of five bars. During transmission, the antenna must have a clear view of the sky. The SARLink SOS-300 cannot send messages or reports from inside a building.
	Denotes the GPS receiver is off. The GPS receiver is always kept off to preserve battery life until time, date or position information is needed.
	Denotes the GPS receiver is on with real-time satellite acquisition status represented by the number of vertical bars. One bar represents valid time and date fix, two bars represent dead reckoning, three bars represent 2-D fix, and four bars represent 3-D fix. Although the SARLink SOS-300 GPS receiver can often obtain a location fix when the antenna is partially blocked (near buildings, in a room next to a window, etc.), it is recommended that the antenna should have a clear view of the sky to minimize acquisition time and gain improved position accuracy.
	Denotes tracking mode is on when the tracking symbol is bright white. Next to the tracking symbol is the countdown timer to the next report.
	Denotes tracking mode is off when the tracking symbol is dimmed gray.
	Denotes all audio alerts are off.
	Denotes audio alert is on.
	Denotes unread message(s) is in the Inbox.
	Denotes message(s) is in the Outbox ready to be sent or message(s) in queue failed to send.
	Battery indicator.
	Denotes the battery is being charged by an external power source.



****Symbols above relate to only the Iridium functions of the unit and have no effect on the 406 MHz distress function.**

Emergency Activation



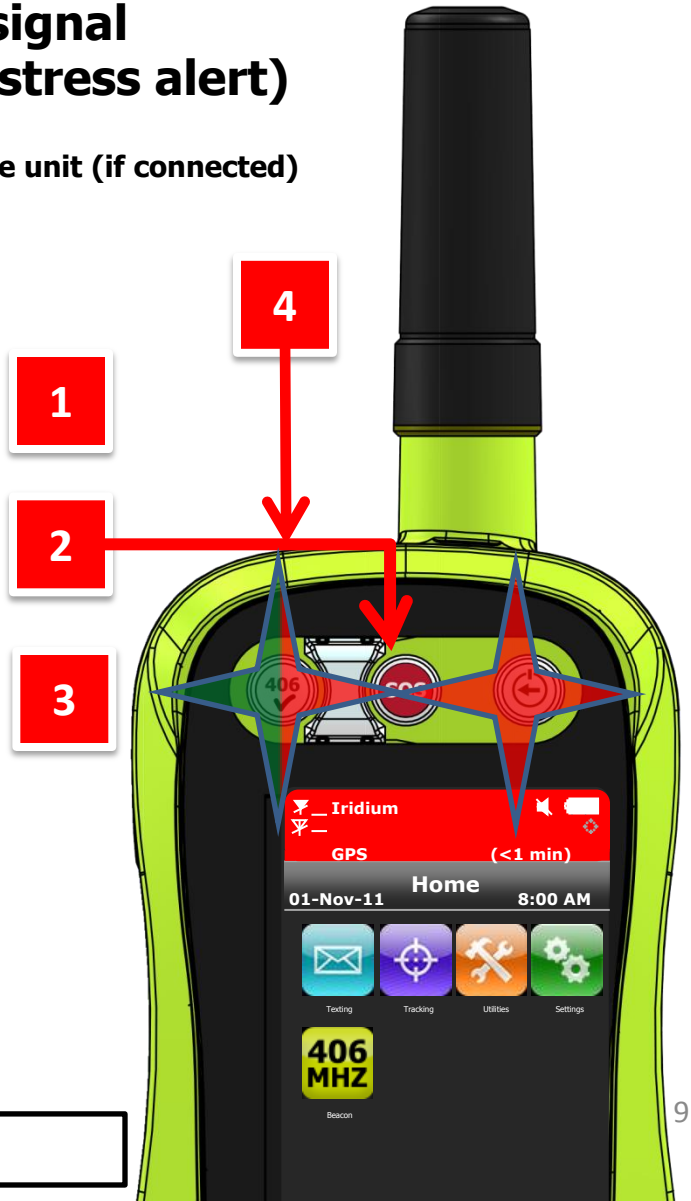
To activate the distress signal (406 MHz and Iridium distress alert)

IMPORTANT: Detach USB cable from the unit (if connected)

1. Slide SOS cover to the left in order to expose the SOS button.
2. Press the **SOS** Button for **3** Seconds.**
3. The  button will **flash red** once every 2 seconds until a valid GPS fix is attained, then it will start to **flash green**. The  button will turn **solid red** when the display is on, and when unit is in sleep mode it will **flash red** every 5 seconds.
4. Do not obstruct view to sky (see label on SARLink SOS-300 positioned here).
5. Once activated, leave the SARLink SOS-300 on or above ground in upright position.

****Once 406 MHz distress alert has been activated, the Search and Rescue process is initiated regardless of any user activity related to Iridium functions (see Iridium Emergency Activation section for Iridium functionality after the SOS button has been pressed for 3 seconds).**

 **Warning: Do not move if found.**



Emergency Deactivation



Press the SOS button for 4 seconds to cancel the emergency activation (406 MHz and Iridium distress alert). The 406 MHz distress alert can only be canceled by pressing the SOS button.

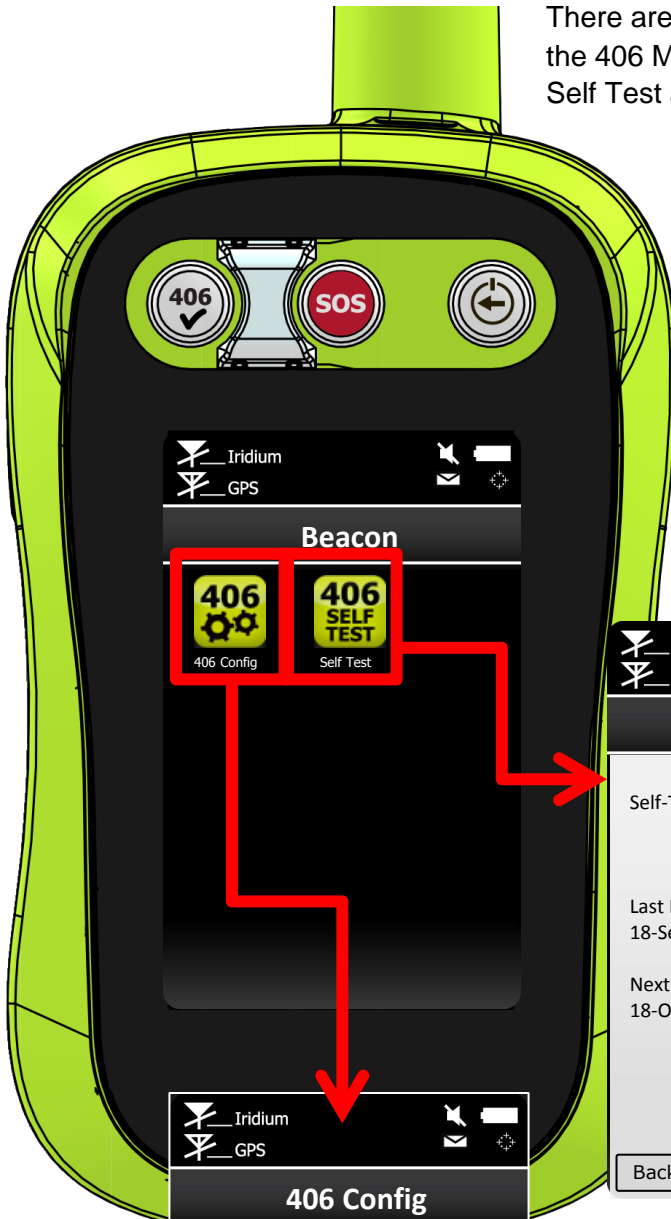
The  button will stop flashing after the emergency activation has been cancelled.

1. If the beacon is inadvertently activated for longer than 50 seconds, a live burst is transmitted. Follow instructions in the “False Alarms” section in this manual.
2. Perform a Self-Test, as outlined in the “406 MHz Self-Test” section in this manual.

406 MHz Locator Beacon Icon

406
MHZ

There are two menu items available when the 406 MHz icon is pressed: 406 MHz Self Test and 406 MHz Configuration.

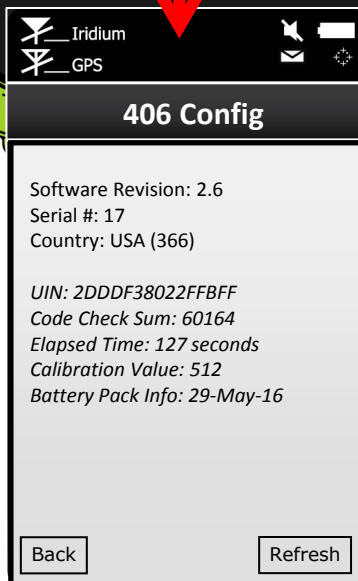
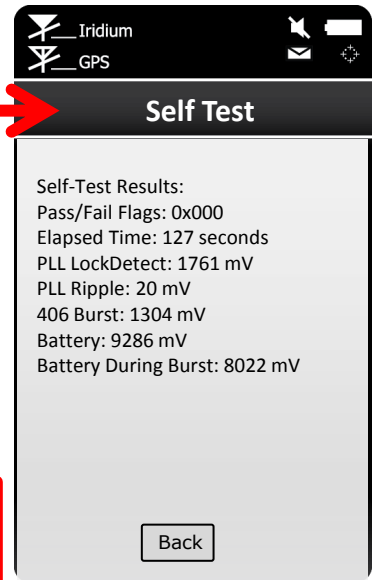
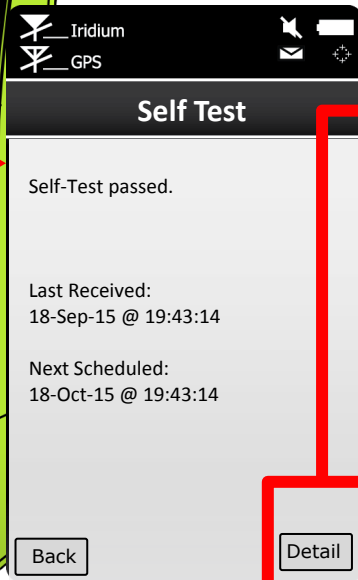


406 MHz Self Test

The Self Test screen provides the most recent self test results (see page 12 for instructions on performing a self test).

If the most recent 406 MHz self test passed, the text displayed is **black**. Otherwise, the screen text is displayed in **red**.

By pressing “Detail” on the screen, individual tests that passed or failed are displayed as well as their actual values.




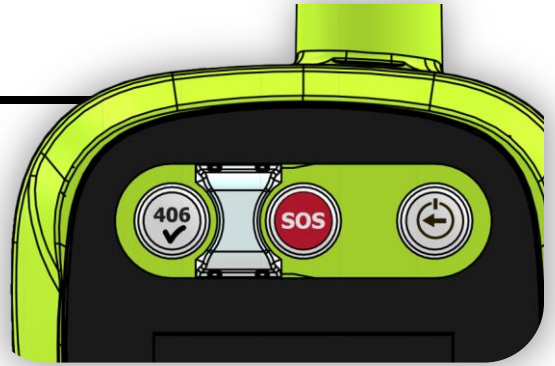
406 MHz Configuration

- This screen provides the end-user useful information about the device.
- The Software revision level, serial number and country of registration.
- Battery date code information and the amount of elapsed time the 406 MHz dedicated battery was used.

**No changes to the 406 MHz configuration are available to the user.

406 MHz Self Test

Press the  button for 1 second to initiate the 406 MHz self test



Explanation of the Self-Test Sequence of LEDs

1st - A brief **GREEN LED** flash indicates that the self-test button has been pressed for 1 second and the button can be released.

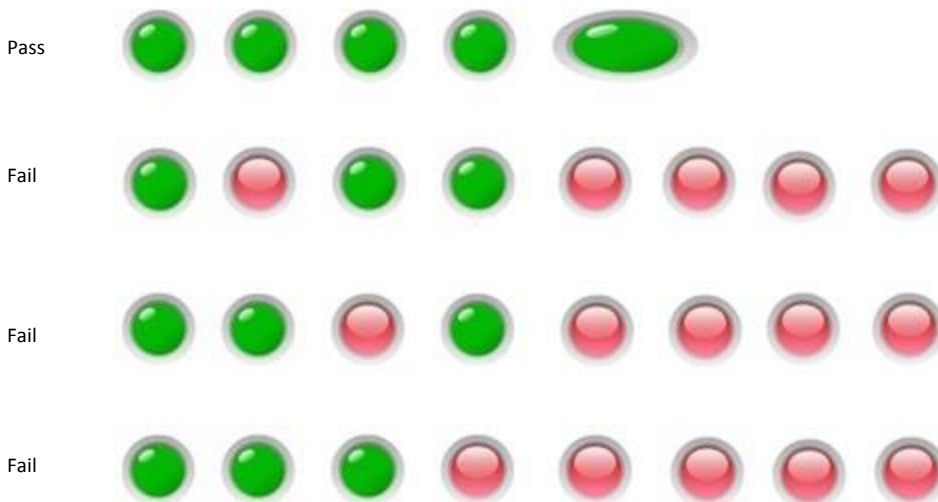
2nd - **GREEN/RED LED** flash to indicate for electronic witness, battery pack serial number, or battery communication pass or fail (Green LED = pass, Red LED = fail).

3rd - **GREEN/RED LED** flash to indicate for 406 PLL lock, 406 transmit, or battery voltage during 406 transmit pass or fail (Green LED = pass, Red LED = fail).

4th - **GREEN/RED LED** flash to indicate for non-volatile memory, code checksum, missing beacon ID, or GPS communication pass or fail (Green LED = pass, Red LED = fail).

5th – 3 second green pulse indicates a pass and 4 short red LED flashes indicate a fail.

The following chart depicts the Self-Test LED sequences described above:



****It is recommended that a 406 MHz Self Test is run once every 6 weeks up to a maximum of 60 self tests, over the 7 year life of the dedicated 406 MHz Lithium battery.**

****SARLink SOS-300 should be sent back to ACR Electronics in the event of a self-test fail.**

****The dedicated 406 MHz Lithium battery should be replaced after any 406 MHz Emergency Distress Activation, or on or before the 406 MHz Lithium battery expiry date.**

****For battery replacement or service, return SARLink SOS-300 to ACR.**

Iridium Emergency Activation

Once the emergency activation (SOS) button is pressed and the screen is on, the top section of the display will turn red during an emergency. It turns back to black when the device is taken out of Emergency mode. Once the emergency activation button is pressed, the screen will initiate an Iridium emergency confirmation screen. If Yes or No are not pressed on the confirmation screen, the Iridium emergency message by default will commence sending after **30** seconds. (Note that confirmation screen can be accessed via the SOS button or by pressing the "Utilities" icon on the Home screen followed by the "Iridium SOS" icon on the Utilities screen)

If No is selected on the confirmation screen after pressing the SOS button, a screen will appear alerting you to press the SOS button for 3 – 4 seconds to cancel the Iridium distress alert (pressing the SOS button for 3 – 4 seconds will cancel both the Iridium and 406 MHz distress alerts).

If Yes is selected on the confirmation screen, a screen will appear with a drop down list of canned messages to describe the nature of your emergency situation.



****Perform steps listed above on this page as quickly as possible and then place SARLink SOS-300 on or above ground in upright position with unobstructed view to the sky. Continue to use Iridium functions only to facilitate rescue.**

Note: In order to utilize Iridium functionality, an Iridium airtime subscription is required prior to use. Contact ACR for information on Iridium providers.

Failure to subscribe or register for Iridium airtime will cause inoperability of Iridium functions.

Iridium SOS Icon



The Iridium SOS function is independent of the 406 MHz function. The Iridium only SOS function enables a "distress notification" to be immediately sent from the SARLink SOS-300 via the Iridium satellite network to a Network Operations Center (NOC) and escalated to the appropriate personnel within that organization (as opposed to a traditional public 406 MHz distress alert).

The Iridium only distress notification enables an organization or entity to qualify, communicate, resolve and or escalate to the authorities, the emergency based on their own emergency protocols and procedures (as opposed to a public notification of NOAA and the appropriate RCC through the formal Cospas-Sarsat network 406 MHz distress activation).

Access the Iridium SOS icon by pressing the "Utilities" icon on the Home screen followed by the "Iridium SOS" icon on the Utilities screen.



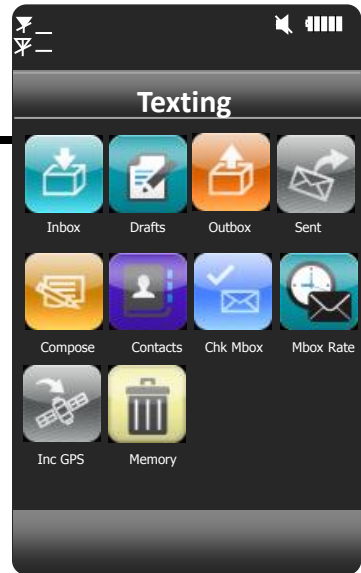
Cancel Emergency Iridium SOS











- Return to the Iridium SOS icon under the Utilities screen and select the Iridium SOS icon. The icon will have a red circle with a slash appearing over it.
- Once the icon is selected it will ask you if you wish to cancel the emergency message.
- Select Yes.



Texting (Iridium only)

The SARLink SOS-300 provides the ability to send and receive SMS/Text messages to cell phones, email addresses and other SARLink SOS-300 devices. By accessing the texting menu, you can easily compose, save and manage all of your incoming and out-going mail.



Icons	Texting menu allows user to compose, save, view, and send canned or free-text messages.
	Inbox folder contains all incoming read and unread messages with the newest on top of the list.
	Sent folder contains messages successfully sent to a Network Operating Center (NOC) server. A message can be resent, forwarded or deleted.
	Compose menu allows user to enter, edit and send canned messages, free-text messages or a combination of canned and free-text messages to: (1) a NOC server, (2) to a pre-defined list of email addresses or SMS and/or (3) to any email addresses entered via the keyboard.
	Drafts folder contains draft messages saved under the Compose menu.
	Outbox folder contains either messages in queue ready to be sent or messages failed to send.
	The Check Mailbox menu can either be in Idle or Checking the Iridium gateway for any pending messages to be downloaded.
	Contacts is an address book with a list of contacts created and saved into the SARLink SOS-300's memory.
	Memory is used to clear messages in all mail boxes or clear messages in each individual mail box—Drafts, Inbox, Outbox and Sent.
	Include GPS – Choose whether to include GPS in Cancel 911, Check-In, canned or free-text messages.
	Mailbox Check Rate – Mailbox Check allows you to select the rate at which the SARLink SOS-300 looks for incoming mail. You can also use this feature to turn On/Off the mailbox check to save battery power.

Texting – Compose a message (Iridium only)

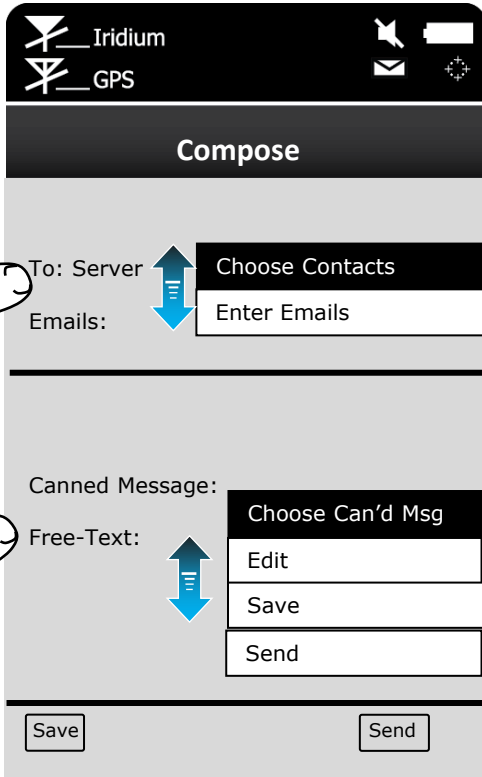
When Compose is selected, a screen will appear with two distinct regions—"To: Server" and "Canned Message:"

To: Server/Emails:

User can hold a finger down with moderate pressure and slide between "Choose Contacts" and "Enter Emails."

Canned Message:

User can hold a finger down with moderate pressure and slide between "Choose Canned Message", "Edit", "Save", and "Send."

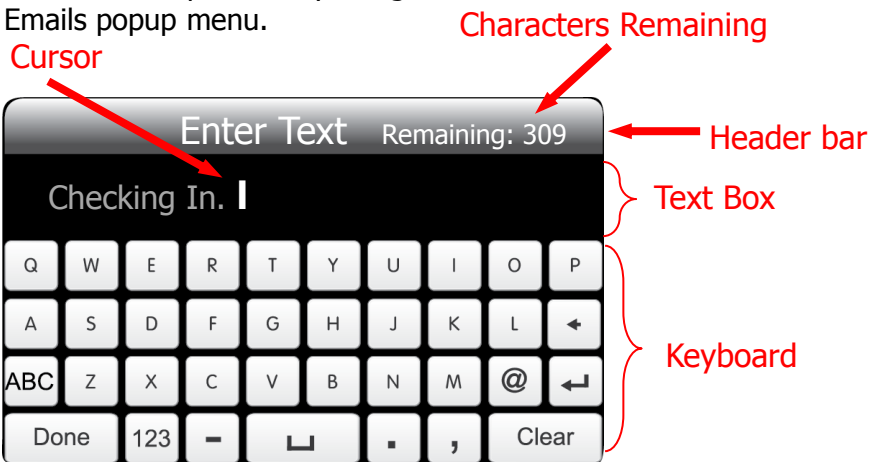
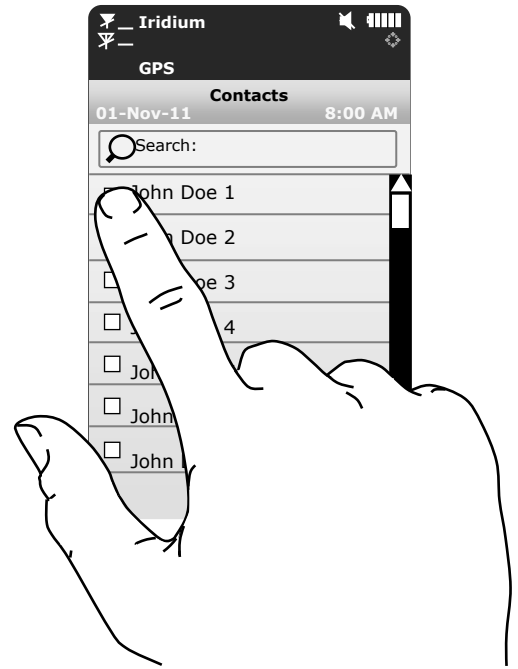


Texting – Compose a message (Iridium only)

Selecting Contacts

After Choose Contact is selected and if email addresses were entered online, a list of contacts will appear in alphabetical order. Select a single contact or multiple contacts by touching the checkbox to the left of their name on the list and tap "Add" to accept. A contact(s) can be removed by going back to Choose Contact, unselect a contact(s) and tap "Add" to remove. Hitting the back key instead of Add after selecting or unselecting a contact will cancel the choice(s).

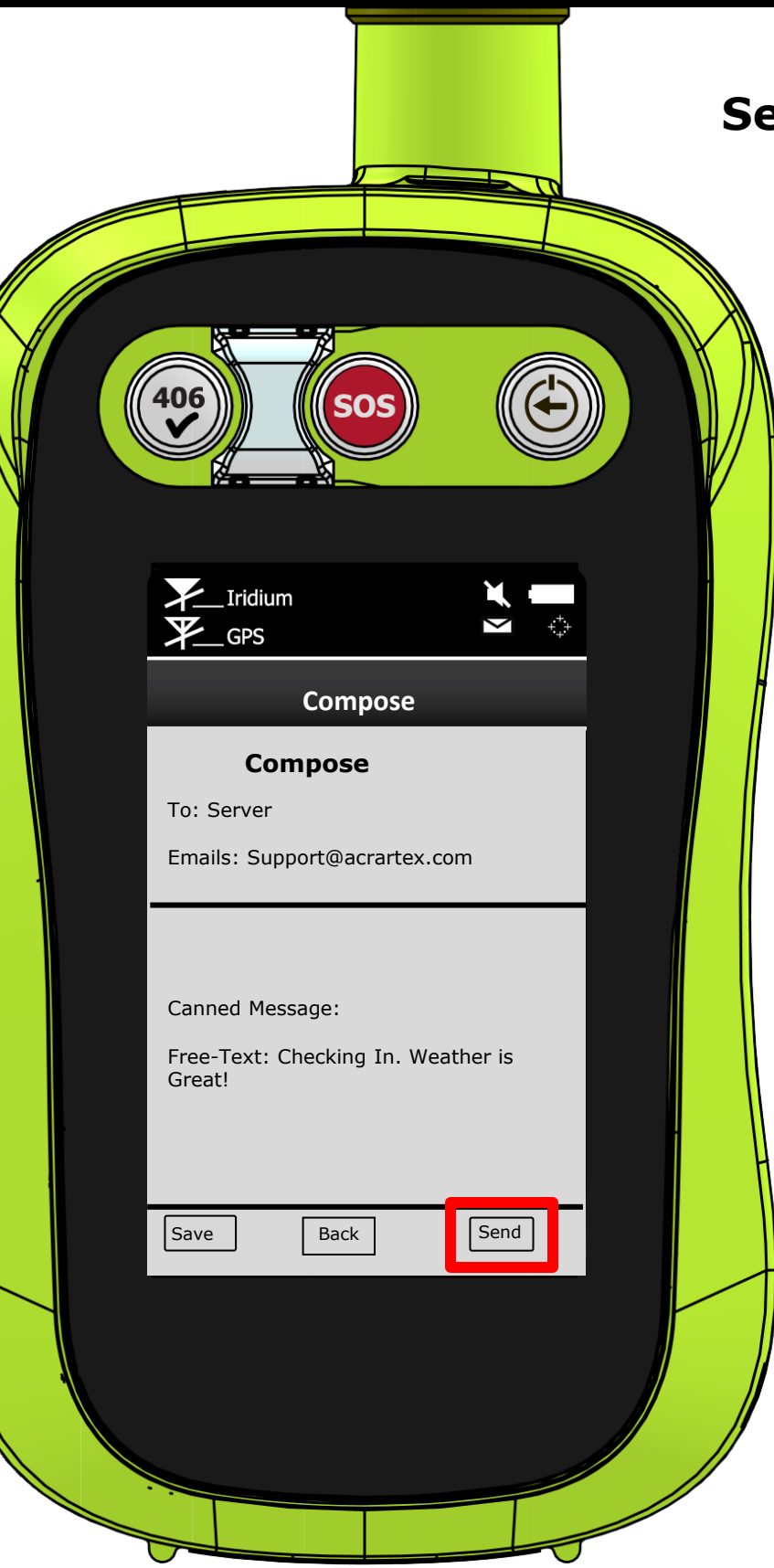
After Enter Emails is selected a keyboard will appear. Multiple email addresses of up to 255 characters can be entered separated by a comma. The SARLink SOS-300 keeps track of the limit and will prevent user from entering email addresses longer than allowed. Email addresses and free-text messages share the same memory space with a maximum allowable length of 309 characters. Long e-mail addresses or multiple e-mail addresses will reduce the number of characters available for free-text message. User is reminded that the SARLink SOS-300 sends a short code representing the email address listed under To; however, the SARLink SOS-300 sends the actual email addresses listed under Emails. Any email addresses selected under Choose Contact can be removed by going back to Choose Contact option or by using the keyboard under the Enter Emails popup menu.



The keyboards are used to enter text inside the text box. The location of the cursor in the text box is displayed as a flashing block.

The block turns red when the maximum limit is reached (Remaining: 0). The entire text box can be erased with the Clear button. Unclear reverses the process. Tap the Done button to accept entered text and return to the previous screen. Pressing the back key will return to the previous screen without all the changes—all the changes will be lost.

Texting – Compose a message (Iridium only)



Sending Message

After selecting a canned message and/or composing a free-text message, the user can either Send the message or Save as Draft.

If Send is selected, a Success screen will appear to indicate that the message has been added to the Outbox. The SARLink SOS-300 must maintain clear unobstructed view of the sky for successful message transfer (ensure that the antenna and the area of the SARLink marked with the image below has clear view to the sky). If the Texting/Include GPS option is turned on then GPS location will be added to the message. Messages with GPS location take longer to complete since the SARLink SOS-300 has to acquire a GPS fix.



If you would like to save the message so that you can send it at a later time, simply select "Save." To retrieve the message later, select the Texting Icon and select "Drafts."

Tracking (Iridium only)









The tracking menu allows user to:

- enable the SARLink SOS-300 tracking
- disable tracking
- set the reporting rate
- set the position report format
- select a Brevity Code
- block certain reports
- Enable and disable the logging of reports
- view the unit reporting data



Tracking (Iridium only)



Icons	Tracking menu allows user to enable tracking, disable tracking, set the report rate, set the position report format, select brevity codes, and view the unit reporting data.
	<p>On/Off is used to set the SARLink SOS-300 tracking mode. The SARLink SOS-300 immediately turns the GPS receiver on to acquire a GPS fix and then attempts to transmit a position report. The next position report is sent automatically based on the reporting rate set using Tracking/Reporting Rate.</p> <p>Reporting Rate - Used to set the report frequency (time between reports) when tracking is enabled. A predefined rate or a custom user-entered rate can be entered.</p>
	<p>Format - The SARLink SOS-300 can transmit position reports in 30-byte format or 10-byte format, as well as PECOS. The 30-byte format includes UTC date, UTC time, latitude, longitude, altitude, speed, course, vertical velocity, number of satellites used to obtain 3-D fix, HDOP and VDOP. The latitude and longitude are recorded with ~0.18 meters resolution.</p> <p>The 10-byte format includes UTC time, latitude, longitude and PDOP. With UTC date omitted, the SARLink SOS-300 relies on the NOC server to record the date. Encryption cannot be used with the 10-byte format. Latitude and longitude are recorded with ~1.1 meters resolution. The 10-byte format is selected for the purpose of airtime cost-saving.</p>
	<p>By pressing the Brevity icon, the user has the option to select any one of sixteen Brevity Codes (0000 through 1111) to be included in the PECOS Message Structure (PMS) tracking reports. These codes are represented by A(z), B, C(z) and D and can be selected via the touchscreen. Each code will light up as a green dot inside the Brevity icon when selected.</p>
	<p>Block Reporting is used to control the sending of tracking messages that contain an invalid GPS position; choosing "Do Not Block Any Reports" will allow all tracking messages to be sent even if the GPS position is invalid; choosing "Block Invalid GPS Reports" means that a tracking message with an invalid GPS position will not be sent.</p>
	<p>Data Log is used to enable and disable the logging of tracking reports; choosing "Enable Data Logging" means that all tracking reports will be logged regardless of whether the tracking report was successfully sent or not; choosing "Disable Data Logging" means that tracking reports are no longer logged.</p>
	<p>Statistics – Records and keeps track of date/time, your GPS position, altitude, speed, course, vertical velocity the number of satellites, and horizontal accuracy.</p> <p>A countdown timer to the next report is shown beside Time to Next and is replaced with Off when Track On/Off is disabled.</p>

Beacon Maintenance

Routine Maintenance

Carefully inspect the beacon case for any visible cracks. Cracks may admit moisture which could cause a malfunction. Any cracks observed should be immediately referred to ACR for evaluation by calling +1 (954)-981-3333. ACR Technical Support can also be reached by sending an email to: service@acrartex.com

Battery Replacement

The 406 MHz battery should be replaced 7 years from the date of manufacture, or after use in an emergency. Not to exceed the battery expiration date shown on the SARLink SOS-300. Always refer battery replacements and other beacon service to ACR Electronics.

The Iridium battery should be replaced after 500 rechargeable cycles. Always refer battery replacements and other beacon service to ACR Electronics.

NOTE: There are no user serviceable items inside the beacon. **DO NOT OPEN THE BEACON.** Opening the beacon will void the warranty.

Changing ownership or contact information (406 MHz Registration Information)

As the owner of the beacon, it is your responsibility to advise the national authority of any change in your registration information. If you are transferring the beacon to a new owner, you are required to inform the national authority. You can do this by using their online database or by letter, fax or telephone and informing the authority of the name and address of the new owner.

The new owner of the beacon is required to provide the national authority with all of the information requested on the registration form. This obligation transfers to all subsequent owners.

Lost or stolen Beacons

If your beacon is lost or stolen, do the following immediately:

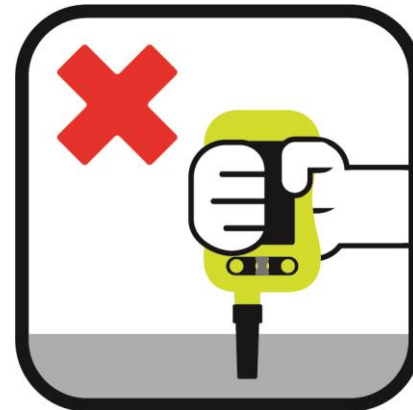
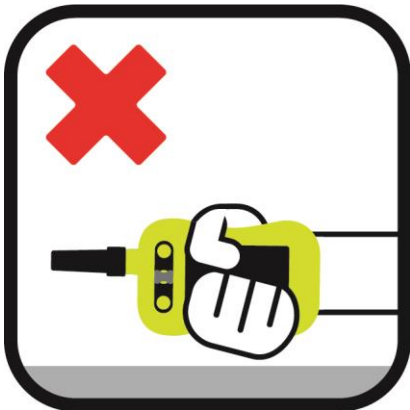
- Report to your local authorities that the beacon has been lost or stolen
- Contact your National Authority with the following information:
 - Police department name
 - Police department phone number
 - Police case number

In the event of a 406 MHz Emergency Activation, the information you provided will be forwarded to the appropriate search and rescue authorities who will ensure that your beacon gets back to you.

If someone attempts to register a 406 MHz beacon that has been reported as stolen, your national authority will notify the appropriate police department.

Cospas-Sarsat Emergency Operational Scenarios

Place SARLink SOS-300 on or above ground in upright position with unobstructed view to sky.



⚠ Warning: Not designed to float

⚠ Warning: Not a substitute for a required EPIRB on a vessel

Product Specifications

FEATURES

Dimensions	8.12" x 3.12" x 1.5" (20.62 x 7.92 x 3.81 cm)
Weight	12.52 oz (355 g)
Waterproof Rating	IP-67
Operating Temperature	-20°C to +55°C (-4°F to +131°F)
Storage Temperature	-30°C to +70°C (-22°F to +158°F)
Material	High Performance Engineered Polymer
Display	LCD Touch Screen
Display Dimensions	3 inch diagonal
GPS Receiver	U-BLOX MAX-7Q-0
Receiver Type	L1, C/A, 50-channel
Receiver Update Rate	Up to 4 Hz

IRIDIUM FEATURES

Iridium Module	Iridium 9603
Battery Type	Rechargeable Lithium Ion
Rechargeable Cycles	500 times
Battery Voltage	3.7V
I/O Interface	Mini USB Adapter
GPS Tracking	Send and/or save waypoints
GPS Tracking Intervals	Between once per minute and once per day
SMS Texting	Canned or Custom Messages
SMS Communication	Two-Way (satellite to cell)
SOS Emergency Activation	<ol style="list-style-type: none">1. Manual Activation – Slide SOS cover left, Press SOS button (406 MHz and Iridium Distress)2. Manual Activation – Press Iridium SOS Icon – under Utilities menu (Iridium Distress Only)

406 FEATURES

Battery	Dedicated Lithium Battery for Distress Alerting
Battery Replacement	7 years
Battery Shelf Life	.25 years
Power Output	5W
Frequencies	406.040 MHz
Testing	Self-Test
406 Emergency Activation	Manual Activation – Slide SOS cover left, Press SOS button (406 MHz and Iridium Distress). 24 hours of operating lifetime.

APPROVALS: COSPAS-SARSAT, FCC

Meets the requirements of Federal Communications Commission (FCC) Part 95 Subpart K. For all other type approval information, please visit our website.

CAUTION: Contains lithium batteries (batteries meet the UN Classification for non-dangerous goods – Class 2 non-hazmat lithium batteries). Prior to shipping beacon for service, alert your carrier about the batteries contained in this equipment to make sure they properly label your package. Call ACR's Technical Service department at +1 (954) 981-3333 for proper shipping instructions or visit the ACR website in the Support section entitled "Hazmat, MSDS Sheets, & Info". Do not incinerate, puncture, deform, or short-circuit. Do not recharge 406 MHz battery. Dispose of the used SARLink SOS-300 with the batteries removed in accordance with local waste disposal regulations. If this beacon is kept above room temperature for prolonged periods of time, the Battery Capacity will be degraded. This will need the 406 MHz battery to be replaced at a date earlier than stated on the beacon or the quoted operating life of the beacon (24 hours) may be reduced. The effect is more pronounced as temperature increases. In tropical regions this could reduce the battery life by a year. In hot desert regions, this could be two years. Note: Storage in lower temperatures (below ambient) does not extend battery life longer than the replacement date on the unit.

Regulatory Compliance Statements

FCC Warning Statement

- This device complies with Part 15 of the FCC Rules, Class B. Operation is subject to the following two conditions:
 - 1) This device may not cause harmful interference, and
 - 2) This device must accept any interference received, including interference that may cause undesired operation.
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and 10-g extremity SAR limits. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.