



BARRYVOX® S

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DECLARATIONS OF CONFORMITY	

North America:
Mammut Sports Group Inc.
458 Hurricane Lane
Williston, US-VT05495
Phone +1 800 451 5127
info@mammutusa.com

Europe:
Mammut Sports Group GmbH
Mammut Basecamp 1
DE-87787 Wolfertschwenden
Phone +49 (0)8334 3620 0
germany@mammut.ch

Switzerland (Head Office):
Mammut Sports Group AG
Birren 5
CH-5703 Seon
Phone +41 (0)62 769 81 81
info@mammut.ch

mammut.com



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BARRYVOX® S



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EXTENDED REFERENCE GUIDE

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Congratulations on the purchase of your new Barryvox®S.

This user manual explains the functionality and use of the Barryvox®S. The Barryvox®S is a revolutionary, sensor-controlled avalanche transceiver, which is very easy to use. Additional detailed information and advanced instruction may be found in the Barryvox®S Extended Reference Guide.

Register your Barryvox®S and get a 3 year warranty extension!

Register your Barryvox®S today at www.Barryvox.com, to get important information such as announcements about the availability of software updates.

After a successful registration your device is covered for 5 years by warranty.

Barryvox® Transceivers – Made in Switzerland

Our heritage is compelling. Mammut and Barryvox® follow the time-honored tradition of world-class precision products made in Switzerland. From its design to its engineering and production, this device is completely made in Switzerland.

This device is compatible with all avalanche transceivers that comply with the EN 300718 standard and operate on a frequency of 457 kHz.

The following documents for the Barryvox® transceivers are available at www.mammut.com/BarryvoxManual:

Barryvox®S User Manual

This user manual describes the SEND and group check functions as well as the standard search mode. In addition, you will find all information regarding basic maintenance, warranty and repair as well as the technical specifications.

Barryvox®S Extended Reference Guide

The Extended Reference Guide is a comprehensive resource of information for your Barryvox®S. It includes additional information that augments the user manual concerning device settings, advanced search and rescue techniques, and in particular the alternate search mode. It is an important and valuable resource for advanced recreational and professional users – and all educators.

Approval / Conformity

All information concerning approval and conformity is available at the very end of this booklet.

HANDLING THE BARRYVOX®

Like all transceivers, the Barryvox® contains shock sensitive ferrite antennas. Therefore, you should handle it with utmost care!

Store the device and the carrying system in a dry spot that is protected from extreme cold or heat and direct sunshine.

Always check the result of the self- and battery test, pay attention to alert messages and carry out the group check.

It is your responsibility to frequently check your Barryvox® for mechanical damage of the casing, proper function of the main switch, battery compartment cover as well as cleanliness and mechanical integrity of the battery contacts.

To ensure the proper performance of the transceiver, it is highly recommended that you send your device to an official Barryvox® service center once every three years for a functional test. The recommended date of the next check can be viewed under «Maintenance» in the shut down sequence of the device. (see chapter «Periodic Checks» of the Barryvox®S Extended Reference Manual).

Interferences

Always avoid having other electronic devices (e.g. mobile phones, radios, headlamps, cameras), metal objects (pocket knives, magnetic buttons), or other transceivers close to (20 cm in SEND; 50 cm in SEARCH) your running avalanche transceiver.

You should not wear clothing with magnetic buttons! Users of pacemakers are advised to carry the device in a secure pants pocket (no vital data detection). Consult the manufacturer's instructions with regard to the impact on pacemakers.

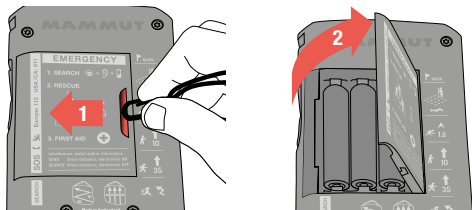
When searching, hold the device at a minimum of 50cm away from these objects and turn off any electronic devices, if possible. It is highly recommended to turn OFF mobile phones!

INITIAL SETUP

Batteries

Only use alkaline (LR03/AAA) or lithium (LR92/AAA) batteries of the same type. Always insert 3 new batteries of the same type. In case these batteries need to be removed, the same 3 batteries or 3 new batteries must be reinserted. Never use rechargeable batteries and always replace all the batteries at the same time.

Make sure the lid is properly closed and that the device and the batteries stay dry.



Use a fingernail or the leash clip to slide battery door to the left, and it will swing open.

Periodically inspect the battery compartment. Clean or dry it, if needed, since moisture can cause corrosion. Avoid touching the contacts with your hands, use a clean cloth. A reliable power supply is crucial for safe operation.

When storing or not using the transceiver for an extended period of time (summer, travelling, shipping), remove alkaline as well as lithium batteries. The warranty becomes void if batteries have leaked!

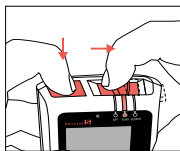
Main Switch OFF / SEND / SEARCH

The main switch is located on the top side of the device. In the left position OFF, the device is turned off, in the center position SEND the device is in SEND mode and in the right position SEARCH, the device is in SEARCH mode. For safety reasons, it is required to press the hinged unlock button to leave the SEND mode. To return from SEARCH to SEND, simply push the main switch sideways.

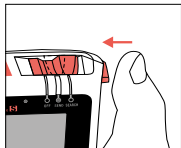
Always make sure that the switch locks into position mechanically to avoid an undesired change of mode.



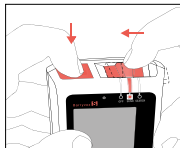
OFF -> SEND



SEND -> SEARCH






SEARCH -> SEND




SEND -> OFF

User Interface and Use of Buttons

The Barryvox®S uses an easy navigation based on three buttons: The two scroll-bar buttons located on the side and the orange  button on the front. To scroll up or down in any menu or list, use the up and down buttons on the side. To confirm your selection, use the orange  button on the front. The action triggered by pressing the  button is shown in menus or in the softkey bar at the bottom of the screen.

Samples:

Press the  button to ...
...confirm your selection.



SETTINGS


Access the settings menu is only possible during the initial start-up sequence. For safety reasons, there is no access to the settings once the device is in group check, SEND or SEARCH mode.

The main purpose of the settings is to allow users to adapt the user interface and available function of the device to best fit their individual requirements and capabilities. However, even if you configure your device for a typical “pro-user”, it will still be possible for a novice to use it efficiently as the fundamental elements of group check, SEARCH and SEND intentionally follow the same principles and user interaction.

The current choice of setting is always marked with the ►-symbol. While scrolling the available settings, this allows you to see what remains stored if you simply exit the menu.

Language

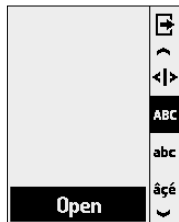
This setting allows you to select the language of your transceiver's user interface.

When turning the device on for the first time and switching to SEND, the user language must be selected. Use the scroll-bar to scroll up or down in the list and confirm your selection by pressing the  button on the front.








Owner

The Barryvox® S allows you to enter your name, address, and other information, such as your phone number or e-mail address. This information is displayed every time the transceiver is turned on.



Beware of the meaning of the following icons:

-  Save and exit
-  Backspace
-  Space
-  New line
-  Change cursor position
- ABC** Uppercase letters
- abc** Lowercase letters
- ÂÇÉ** Uppercase special characters
- âçé** Lowercase Special characters
- @+** Symbols
- 123** Number

SEARCH Settings

For advanced and professional users, it is advised to adjust these settings to best fit their requirements and abilities.

Pro-Search

The factory default setting is “Off”. If you turn Pro-Search “On”, the device will allow you:

- ▶ to hear the analog sound in all search phases in standard search mode. The analog tone allows you the ability to identify signal-overlap or other difficulties encountered during multiple-burial searches, so the searcher has a definitive indication of when an alternate search strategy (3-circle, micro-box, micro strips) is required. Furthermore,

analog sound allows you to reliably differentiate between “false positives” and “real signals”, which is particularly important if you are searching in heavily disturbed areas such as ski resorts or when you are searching with a radio or other electronic equipment turned on in parallel.

- ▶ to scroll the list of buried subjects which allows more efficient group searches and triage decisions
- ▶ to see the vital data of the buried subject you are searching in order to take triage decisions
- ▶ to access the alternative and extended range search modes
- ▶ to mark deep burials up to distance indication of 6.0



Audio Guidance

Choose between digital or analog sound. The setting is valid for all search phases in standard search mode.




Visual Guidance

Choose between standard and classic visual guidance. The standard setting is suitable for all user groups, including advanced and professional users. The standard setting with animated search support and intelligent fine search guidance provides useful and user-friendly search cues for each search phase and yet still allows focusing on numbers only.



Auto-Revert SEARCH to SEND

The Auto-Revert SEARCH to SEND function switches the transceiver from SEARCH mode to SEND mode if there is no user interaction or major motion for a specific amount of time. In case of a secondary avalanche burying rescuers or a device being unintentionally left in SEARCH, this function increases the chance of being found in time.

This function is critical for your personal safety! If you disable this setting, you will always see the  warning symbol in SEARCH mode.



Group Check Distance

The group check distance defines the test distance during the group check. Choose «Sledding» (5m) for the motorized application and «Touring» (1m) for all other cases.



Time for Auto-Revert to SEND

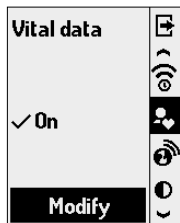
Auto-revert to SEND switches the transceiver from SEARCH mode to SEND mode or from Rescue-SEND mode to SEND mode if there is no user interaction or major motion for a specific amount of time. The default setting of 4 minutes is appropriate for most users, shorter times tend to lead to more frequent, involuntary switchovers. As rescuers which inattentively switch to SEND mode may cause severe distraction to an ongoing search, only change this setting if you have an important reason to do so.



Vital Data

Your Barryvox® S detects your vital data (see chapter „Vital Data Detection”) while you are buried and transmits these via the W-Link radio connection to the rescuers (default setting). In SEARCH mode, the Barryvox displays the vital status, provided the sender has enabled the W-Link and the ability to transmit vital data.

If you do not wish to have these data transmitted, you can disable this feature. Utilizing vital data as one triage criteria can increase the ratio of survival in a search where rescue resources are stretched—for this reason only change this setting if you have an important reason to do so.



W-Link Regions

- ▶ **Europe and neighboring countries (W-Link Region A)**
[= light grey]
- ▶ **US, Canadian, New Zealand and Australian Version (W-Link Region B)** [= dark grey]
- ▶ **Countries without W-Link** [= black]
- ▶ **Countries with unknown region allocation** [= white]

Frequency regulations do not allow that the user modifies the frequency setting. To enable the user to take his Barryvox® with him when travelling into another region, it is possible to switch the W-Link off and on again when returning home.



Please note that the W-Link setting has no effect on the signal which is used to locate a buried subject.

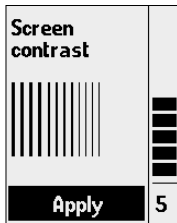


If the W-Link is switched off, location information is not affected, but transmission and reception of vital data is not possible (Chapter «Triage Criteria and Vital Data»).

Adjusting the Screen Contrast

Adjust the contrast of the screen for best visibility in different ambient light conditions.

In the dark, the Barryvox® S automatically turns on the screen backlight.



Reset device to factory settings

The function «Reset device to factory settings» allows you to restore all default factory settings. All modified settings, except the owner information are lost.



SELF- AND BATTERY TEST

Start-Up / Self- and Battery Test

While starting, the device conducts a self test. The result of the self-test is shown the first time the device enters a SEND mode.

If the battery power falls below 30% (alkaline) or the battery icon is displayed, the batteries must be replaced as soon as possible!



Battery Test and Battery Level Indicator

The following table gives you average values for the battery levels. The remaining battery level can only be displayed correctly if batteries are used according to the chapter «Insert / Replace Batteries» Low temperatures, age, and brand can have a negative impact on the battery life and the accuracy of the battery level indication. As the risk of a battery failure increases towards end of the battery life, we recommend to replace alkaline batteries at 40% and lithium batteries at 30%.


100%:

Normative Requirement (=minimum requirement) min 200hrs SEND at 10°C followed by 1hr SEARCH at -10°C

Typical values for the Barryvox® S with alkaline batteries: 300hrs SEND at 10°C Measured with Duracell PULS Power (initial set of batteries)

Typical values for the Barryvox® S with lithium batteries: 350hrs SEND at 10°C Measured with Energizer ULTRA and ADVANCED

less than 30%  (alkaline)

25%  (lithium)

The batteries must be replaced as soon as possible!

Emergency reserve at 30% (Al) / 25% (Li):

Max. 20 hrs in SEND mode and max. 1 hr in SEARCH mode left.

Battery capacity unknown 

The battery capacity cannot be reliably determined.

The batteries must be replaced as soon as possible!

The transceiver sounds a warning if the battery level is running on emergency reserve or unknown at startup.

Change between Alkaline and Lithium Batteries

As soon as one battery is removed and a reinserted or replaced, the device tries to recognize the battery type (alkaline or lithium).

Be aware of the following important details when answering the questions:

▶ 3 new

Only confirm this questions if you really inserted 3 new lithium batteries, which have never been used before in any other device.

▶ The same

Only confirm this question, if you have removed one or multiple batteries and reinsert now the same, in the meantime never for any other purpose used batteries (i.e. batteries you have removed over the summer).

▶ Unknown

You must take this choice when you have mixed alkaline and lithium or inserted lithium batteries which you have used before, or in the meantime, in other devices.

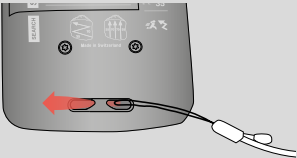
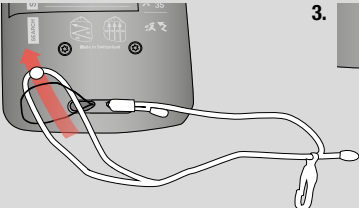
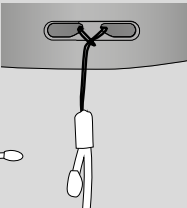
If you mix alkaline and lithium batteries, or try to use lithium batteries which have already been used in other devices, it is impossible to determine the battery capacity. In this case, the alert message “Battery capacity unknown!” will be shown.

CARRYING POSITIONS

Adjust the BarryMount to fit your body. Regardless of the carrying position, the display should always face your body!

The detection of vital data is only possible if you carry the device in the BarryMount. (Chapter «Triage Criteria and Vital Data»).

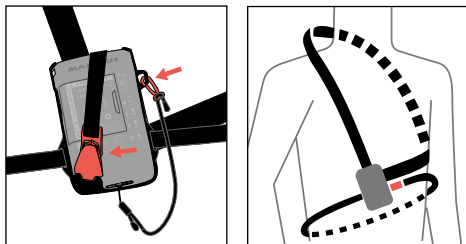
BarryLeash

- 1. 2. 3.

Attach the BarryLeash to the bottom of the device.

BarryMount (Recommended Carrying Position)

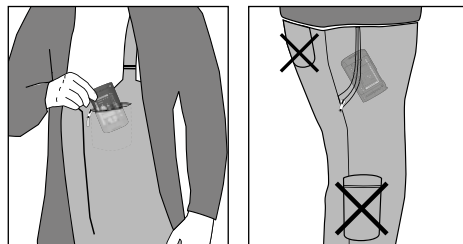
The BarryMount should be put on over your innermost layer of clothing prior to beginning the trip (see illustration) and must be worn on your body for the duration of the trip. The transceiver must always remain covered by one layer of clothing. The device itself is inserted into the BarryMount according to the illustration. It should always remain attached to the holster using the clip of the BarryLeash.



Carrying the Transceiver in a Pocket

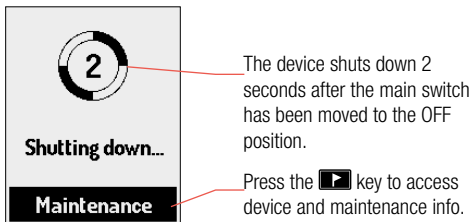
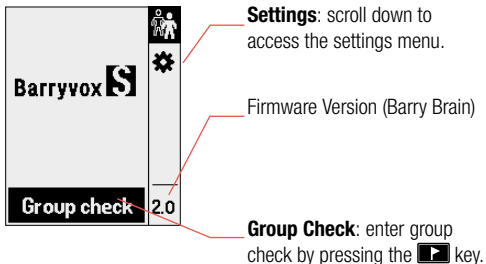
(without vital data detection)

If you carry the Barryvox® in a pants pocket, the zipper must remain closed for the duration of the trip. Always use a secured pocket (see illustration). The wrist loop should be secured to your pants or around your belt.

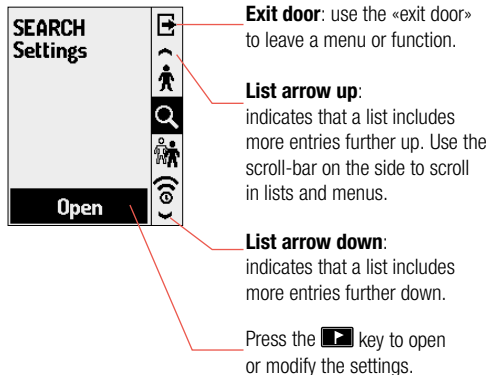


COCKPIT – OVERVIEW OF FUNCTIONS

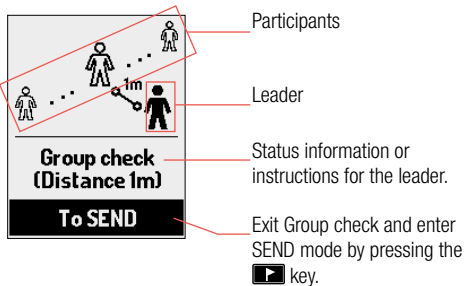
Turning the Device ON and OFF



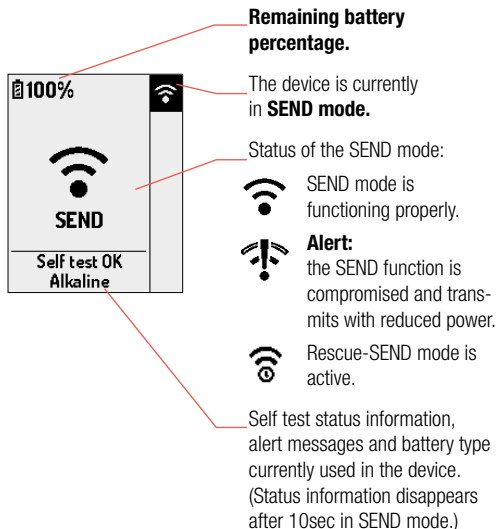
Settings and Navigation in Lists



Group Check

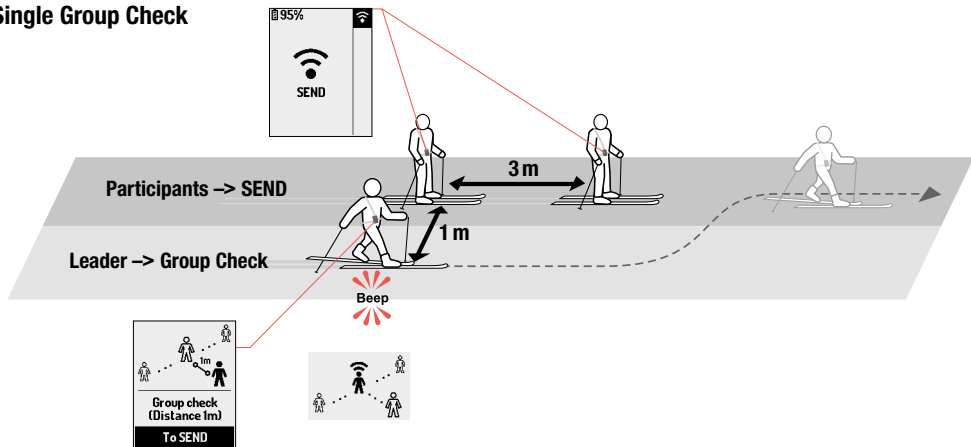


SEND




GROUP CHECK

Single Group Check



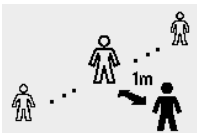
Before a party takes off, the transceivers of all party members must be checked. The participants switch their device to SEND mode.

The group leader activates the group check by switching his device from OFF to SEND and presses the  button within the first seconds.



The test is successful if you can clearly hear beep sounds from each participant's transceiver within the range indicated on the display.

The members of the party must be spread out appropriately to avoid mutual interference. The indicated test distance must not be shortened, or the group check becomes very unreliable.

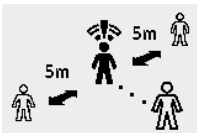


Once all the participant's devices are tested, the group check is concluded. The group leader's transceiver must be switched to the SEND mode.

If no tone is heard within the indicated range, the device must not be used.

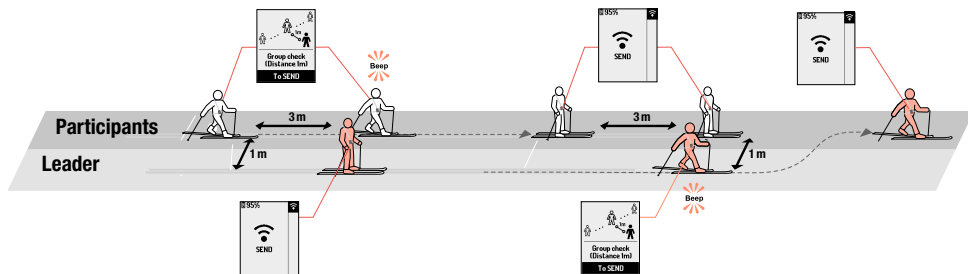
- Further procedure:
1. Check if the device is switched to SEND.
 2. Replace the batteries.
 3. Have the device checked by the manufacturer.

Chapter «Maintenance and Repair» in the Barryvox®S Extended Reference Guide).



If your Barryvox®S detects that the transmit frequency of the tested device is out of tolerance, a warning message will be shown. In this case, repeat the test with 5m distance between the participants to identify the defective transmitter. Such devices must be checked by the manufacturer.

Double Group Check

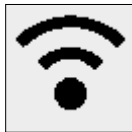


We recommend to perform a double group check once a week and in general when a new group gets together. The double group check individually tests the SEND and SEARCH function of all devices. The members of the party activate the group check on their transceivers or set them to a low receive volume. The leader switches his or her transceiver to the SEND mode and ensures that all party members can receive.

Subsequently, the party members switch their transceivers to SEND, and the leader activates the group check or sets the transceiver to a low receive volume. The SEND mode of all transceivers is checked, and ultimately the leader switches his or her transceiver to SEND.

SEND

The SEND mode is the normal operating mode outdoors or in all other situations in which there is a risk of avalanches.



Each time the SEND mode is activated, this is confirmed by an ascending triple beep sound. Each individual signal pulse is tested. If the test is successful, this is confirmed by a blink of the red SEND-Control LED.



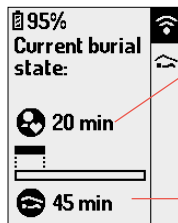
If the device detects that the SEND function is compromised, the red SEND-Control LED stops flashing and the SEND indication on the screen shows an alert sign.

To save battery power, the LCD screen is automatically deactivated in the SEND mode, but can be activated any time by pressing any button.

Vital Data and Burial Data

For further information see chapter “Vital Data and Burial Data History”.

SEND Mode, person not moving or in a state of burial.




Vital data on the person carrying the device was detected in the first 20 min of burial time.

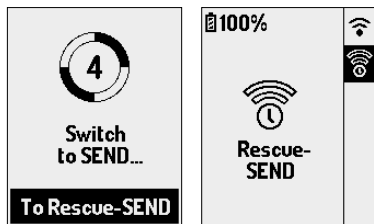
The person carrying the device has not been moving for 45 min.

Rescue-Send Mode (Rescue-SEND)

The rescue send mode is used by all rescuers who are involved in the rescue operation, but do not perform a transceiver search themselves (shovelers, probe line, surface search, search with other search devices etc.). The rescue send mode monitors the motions of the rescuer and only activates the transmitter if, within 4 minutes (default setting) the movement of the rescuer is on low-enough to assume the lack of motion is caused by burial in a secondary avalanche.

Prior to reverting, the device will sound an audible alarm. Reverting can be avoided if any key is pressed within 30 seconds of the alarm. To activate the rescue send mode, switch the device to SEARCH and revert to SEND.

During the 5 sec. count-down, "Rescue-SEND" is now shown at the bottom of the screen. Press the  key within this period of time, the activation of the rescue send mode is confirmed by 3 descending beep sounds and the double flashing of the red SEND-Control LED. If you switch between Rescue-SEND and SEARCH during the ongoing rescue operation, the device will always go into rescue send mode when the main switch is in the SEND position. To activate the regular SEND mode, scroll up to the SEND icon in the menu bar and confirm the activation of SEND mode within 5 sec. Alternatively, turn the device off and on to return to the normal send mode.



SEARCH

Although the avalanche transceiver is easy to use, its effective use requires proper training. We recommend that you practice transceiver searches regularly.

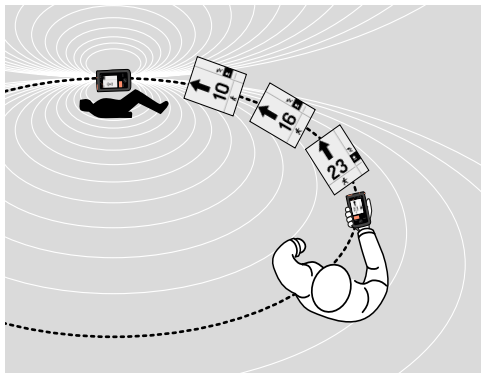
Be aware that electronic devices including mobile phones used by other rescuers may disturb the search. Therefore it is highly recommended to switch off phones which are not absolutely required!

At the beginning and during the search, pay close attention that the rescuer's transceivers are not transmitting and do not switch to SEND unintentionally. It does not make sense to remove your backpack and assemble the shovel and probe at the edge of the avalanche debris. Keep your backpack with all the equipment on you! The assembled shovel and probe is only a hindrance during signal and course search. Only remove your pack to assemble probe and shovel once you have successfully concluded the fine search.

Elementary understanding of transceiver search

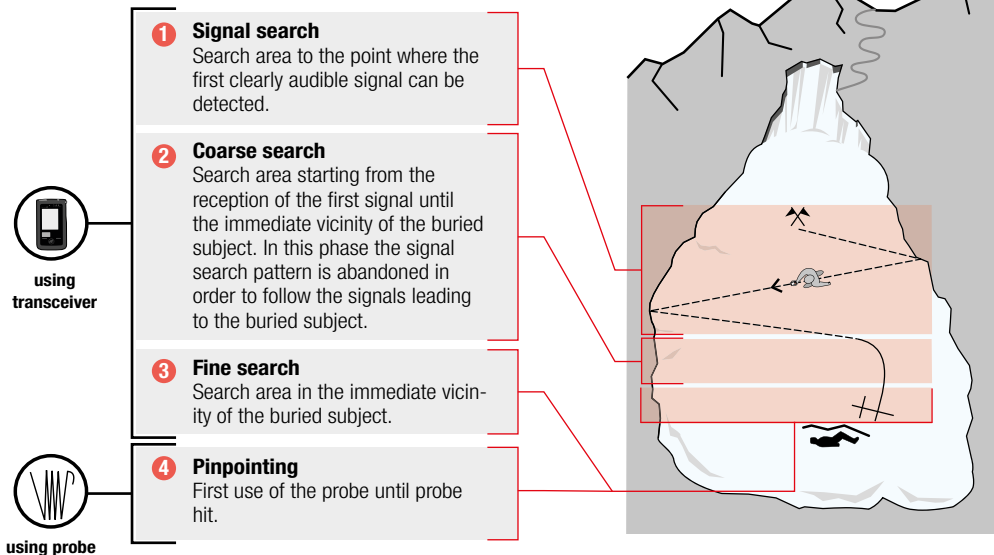
The 457kHz transmitter of the transceiver has a kidney shaped transmit distribution, which is visualized with field lines in the illustration below. The searching transceiver's arrow leads the rescuer along the field lines and therefore usually in a curved line to the buried subject.

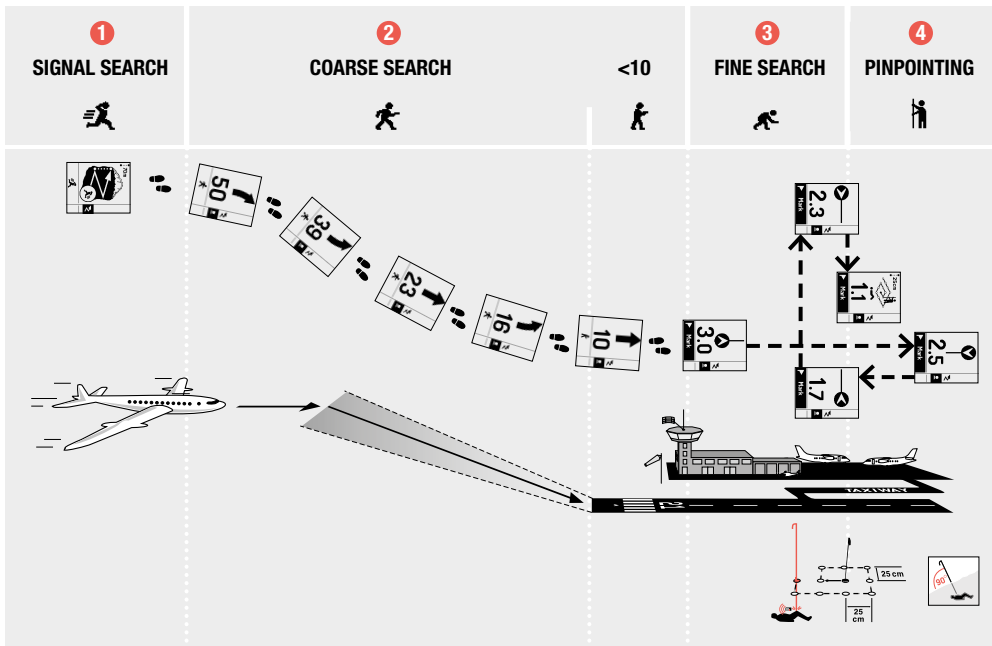
Search Along the Field Line: Flux Line Search



Search Phases

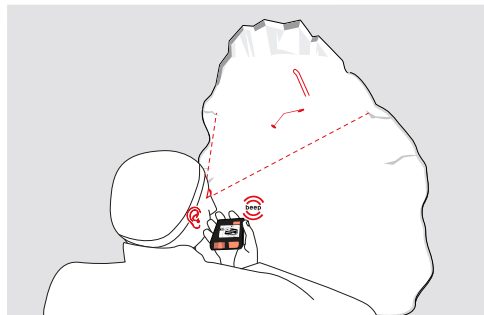
In an avalanche search, the following phases are distinguished:





1 Signal Search

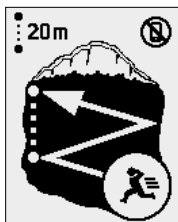
- ▶ **BarryTip: Move swiftly.**
- ▶ Emergency plan, search strategies and search strip widths: please see back side of device.
- ▶ Search avalanche surface systematically.
- ▶ During signal search, the rescuer has his visual focus on the surface of the debris in order to look for visual clues on the snow surface. The first signal is indicated by a distinct double beep sound.



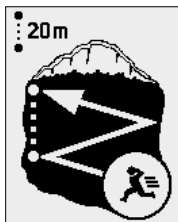
The avalanche surface is searched systematically until you pick up a signal. During the acoustic signal search, the rescuer has the visual focus on the surface of the debris in order to be able to see body parts or objects protruding the snow surface.

From the start of the search until you clearly hear the first tone, you are in signal search.

If your Barryvox® detects that the signal search strip width needs to be reduced due to interference or due to a device transmitting outside the standard frequency, the reduced search strip width will be indicated.



Reduced signal search strip width due to interference.

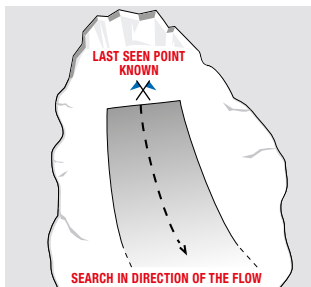


Reduced signal search strip width due to a device transmitting outside the standard frequency.

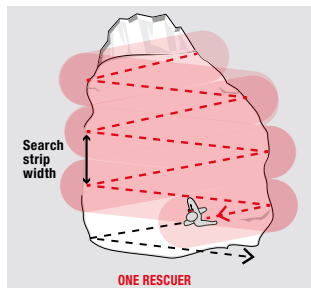
Regardless of the operating mode, the following search strategies apply:

Search strategy if the last seen point is known.

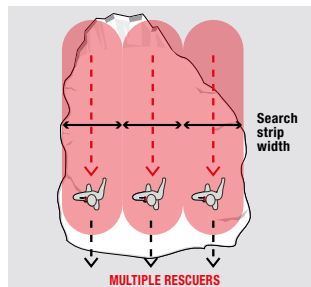
The signal search strip extends downhill from the last seen point in the direction of the slide.



Search strategy if the last seen point is unknown.



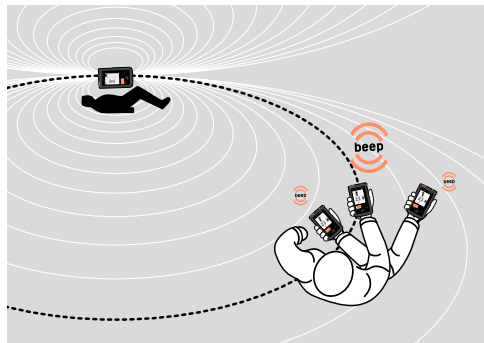
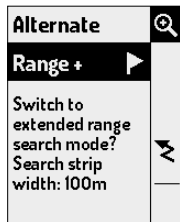
Last seen point unknown, one rescuer.



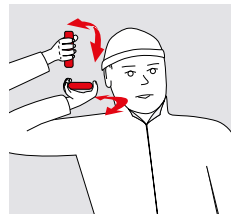
Last seen point unknown, multiple rescuers.

Extended Search Strip in Extended Range Mode

The search strip width can be extended from 70m to 100m by experienced users. For this, the setting “Pro Search” must be turned “ON” (see chapter “Settings”). For the signal search with extended search strip width, scroll to the magnifying glass by using the lateral keys and press the “MARK” button to activate “Extended Range Mode”. The screen is now blank, the green LED is illuminated and the search strip width is extended to 100m. Search the avalanche systematically. When you receive the first signal, follow it based on the analog sound in the direction of the strongest signal (tangent search). When the signal clearly rises, the screen switches back on automatically. Conclude the remaining search by following the distance and direction indications.



To optimize the range, rotate the transceiver slowly around all axes. Hold the device with the loudspeaker facing your ear next to your head.



2 Coarse Search



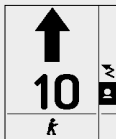
- ▶ **BarryTip:** Move swiftly, move in the direction of the arrow.
- ▶ Hold the transceiver with the extended arm horizontally in front of you.
- ▶ If the distance increases, then you are moving away from the victim. Continue the search in the opposite direction.



Distance below 10



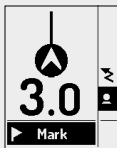
- ▶ **BarryTip:** Reduce search speed, precisely follow the arrow.



3 Fine Search



- **BarryTip:** Follow the arrow!
Step slowly forward, backwards,
left or right while holding the
device at knee height.



During this search phase hold the transceiver at knee height! You will be guided in a systematic cross search pattern to the point where any further search is faster and more efficient with a probe.

Searching in a strictly perpendicular cross shortens the search time and increases the search precision, thus always try to keep the device and your body in the same orientation during fine search.

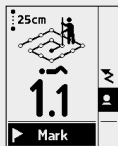
The point where the device indicates the final probing indication usually corresponds with the point of lowest distance indication. The greater the remaining distance to the buried subject (burial depth), the more repetitions of fine search crosses may


be required to reach sufficient search-precision. The device tries to determine these parameters and guides the rescuer accordingly through one or multiple fine search crosses - until the optimal point to start pinpointing with the probe is reached. This spot is indicated by the probe indication.

Immediately place an indicator, i.e. a ski pole at this spot as an important reference with applying the probing spiral. Open your backpack now and assemble probe and shovel. It is recommended to put your backpack immediately back on your shoulders, in particular if you use a back pack with an airbag. In the unusual case of a secondary avalanche, this allows you to take advantage of the safety gear. By strictly keeping the equipment (i.e. first aid kit, radio or mobile phone) with you in your back pack, you will always have it available when you need it while rescuing the subsequent buried subjects.

4 Pinpointing

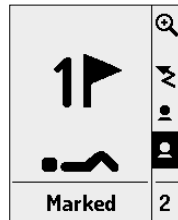
- ▶ **BarryTip:** Place a visual indicator at the point where the Barryvox®S shows the probing spiral. The visual reference is important to probe in a systematic pattern.
- ▶ If the buried subject is hit with the probe, leave the probe in the snow.



Mark the buried subject as «found» by pushing the  button after you have successfully located it with a probe strike!

Probe Indication

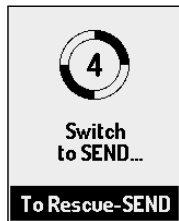
Indication to proceed from fine search to pinpointing. Stash the device in search mode on your body (i.e. pocket) in order to have both hands available to probe. Begin probing in a spiral at a 90° angle to the snow surface. In particular if the debris is hard, guide the probe with two hands, one pushing from the top, the other guiding the probe closer to the snow surface in order to avoid bending the probe. Keep in mind that the remaining distance shown on the screen indicates the maximum possible distance to the buried subject. I.e. if you see 1.1 on the screen, the buried subject must be within 1.1m probing depth and spiral probe radius. In case there is no probe hit within this area, you have missed the buried subject. Repeat probing with a slightly offset probing pattern (chapter «Pinpointing with Transceiver and Probe Pole»).




Automatic Revert to SEND

For the safety of the rescuers, the device automatically switches into SEND mode after 4 minutes without user interaction or motion. To modify the automatic revert to SEND time: see chapter «Settings».

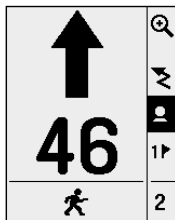
Leaving SEARCH Mode



After 4 seconds the device automatically switches into SEND mode.

Press the  button during these 4 seconds to go into Rescue-SEND mode.

Multiple Burials





The marking feature allows continuing the search for further buried subjects by marking the previously located ones as found. Excavate the buried subjects already found while the search continues, unless the burial depth is particularly deep.

Search Tones in Fine Search

Within the fine search range, thus in the immediate vicinity of the buried subject (approx. <3m), the Barryvox assists you with an artificial, distance and action related sound while fine searching in a cross pattern.

For rescuers who can interpret the analog sound, it is helpful to enable “Pro Search” ahead of time, as the more meaningful analog sound will then be available to identify signal overlaps (see chapter “Pro Search” and “Audio Guidance”).

Erase Mark (requirement: activated pro search setting)

A mark can be removed by selecting the buried subject in the burial list and selecting  «Unmark» with the  key. You can only remove the mark if you are in the immediate vicinity (<6 m) of the buried subject (to adjust these settings: see chapter “Search Settings”).

Deep Burials

The transceiver tries to detect high burial depth and, if required, dynamically increases the fine search range. Marking a buried subject at greater than 6 meters depth is not possible. For further information, please see chapter “No Probe Hit”.

Search for Multiple Buried Subjects Using the Standard Mode

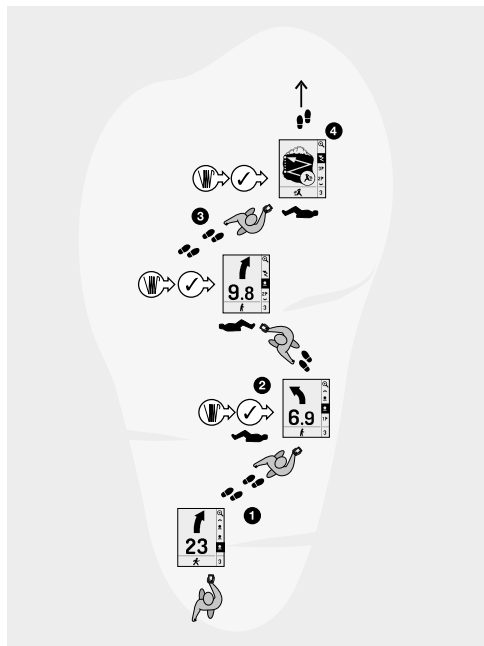
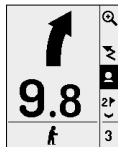
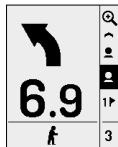
In standard mode, the transceiver attempts to analyze all the detectable signals and to determine the number of buried subjects. This is possible because the signals from each transmitter have characteristics which are distinguishable from the signals of other transmitters. The more unique the signal characteristics are, the more accurately the signals can be distinguished and separated (pattern recognition). By automatically associating the signals with their respective sources, multiple burial situations can be solved without applying special search tactics. Transceivers which also transmit W-Link information can be detected particularly fast and reliably.

List of Buried Subjects

The buried subjects whose transmit patterns can be identified are inserted in the list of buried subjects based on their signal strength, usually corresponding with distance. The closest buried subject on the avalanche is shown at the bottom, the furthest at the top of the list.

Procedure for Multiple Burials

1. The device favors the closest subject first. Locate the various buried subjects using the transceiver and probe pole (Chapter «Search for a Single Buried Subject using the Standard Mode»).
2. As soon as you mark an individual subject, the transceiver takes you to the next closest, unmarked buried subject.
3. Continue this procedure until all subjects are located and marked.
4. The rescuer now searches for additional buried subjects while the display shows the symbol for the signal search phase to indicate that the rest of the avalanche surface must be searched (Chapter «Signal Search»).



Analog Search Tone

Interpretation of the Analog Sound:

Just as in traditional analog transceivers, the analog tone is received by only one antenna. The change in the distance indication can therefore deviate from the change in tone volume. Depending on the relative orientation of the transmitter to the receiver, it is possible for the tone volume and the distance indication to decrease while approaching the buried subject.

The volume of the analog sound is automatically adjusted by the transceiver. Therefore, the volume of the sound cannot be used to tell if you are moving closer or further away from the buried subject. However, an increase or decrease in distance can be easily derived from the distance indication.

“Sound Check”

The analog sound is very useful and important to easily and reliably determine the number of buried subjects: Counting the number of beep sound sequences gives the number of buried subjects. Use this “sound check” to easily and reliably determine the number of buried subjects, between 1 and 3+.

1. Is it possible that I hear only one buried subject?

No: at least 2.

2. Is it possible that these are only two buried subjects?

No: at least 3

3. Only for advanced rescuers:

Is it possible that these are only three buried subjects?

No: More than 3.

The number of buried subjects needs to be interpreted in conjunction with the distance indication / sensitivity level.


Example: You hear three beeps and the distance reading jumps between 3.5 and 4.8 m. Therefore, three buried subjects can be expected within a radius of approx. 5m. Always apply the “Sound Check” at the distance indication of 10 and 3!



Mental Map of the Burial Situation

The “Sound Check” provides the required information to build up the “mental map” of the burial scenario, which is a critical base information for determining the best search strategy,

Knowing the number of buried subjects within a given distance from myself (rescuer) and from each other allows the rescuer to determine when an alternate search strategy is required due to signal overlap or other difficulties, versus when the Standard operating Mode can continue to be used.

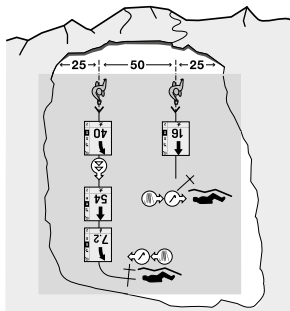
Vital Data and Triage

If not enough rescuers are available to simultaneously search and excavate all buried subjects, buried subjects with increased survival chances, indicated by the - symbol, should be searched and excavated with first priority.


Use the -key, to purposely select in the list of buried subjects one which indicates “increased survival chances” by showing the - symbol. You can find more information on triage criteria and vital data in the chapter «Triage Criteria and Vital Data». The actual prioritization of certain buried subjects over others is up to the rescuer.

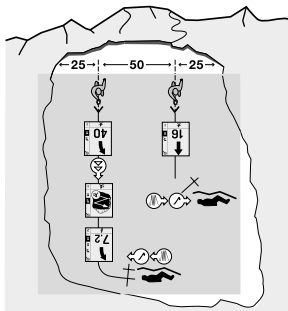
Search With Multiple Rescuers

When the search is conducted with multiple rescuers searching at the same time, avoid searching for the same buried subject as another rescuer. Use the scrollbar, to choose in the list of buried subjects which buried subject you are searching for.





Situation 1: Two rescuers receive two buried subjects.

One rescuer continues the search for the buried subject closest to him, the other rescuer should directly search for the second buried subject, without having to mark the first one. Therefore he presses the -key, the second buried subject who is slightly further apart is now highlighted in the list and the rescuer will be lead to its position.



Situation 2: The two rescuers only receive one buried subject.

One rescuer continues the search for the buried subject closest to him, the other rescuer should search the remaining of the avalanche for more buried subjects. Thus he presses the -key, the selection mark is now on -signal search. The signals of the buried subjects who are already in the list of buried subjects are now purposely ignored.

The device is now searching for buried subjects who are not yet in the list of buried subjects and leads the rescuer to those as soon as they are recognized.


Limitations

The larger the number of buried subjects, the more difficult and time-consuming the exact analysis of the situation gets, because of overlapping signals. The more signals there are, the longer the signal overlaps can last. The capability to automatically detect and isolate signals from multiple buried subjects is therefore limited

Number of Burials

With Pro Search “ON” the calculated number of burials is displayed below the list of buried subjects. (to activate Pro Search: see chapter “Search Setting”)

Symbol

The  Symbol indicates that an additional signal is received that cannot be fully isolated and entered in the list of buried subjects yet. Such a buried subject may be searched, but it is not possible to mark it as found until it is fully recognized.

Analog Tone

Outside of the fine search range, the Barryvox®S always provides the analog tone allowing the rescuer to verify the number of signals detected by the device. Counting the number of different tones provides the number of buried subjects.

Criteria to switch to Analog Mode

If the rescuer detects problems with the digital analysis of a multiple burial situation, he or she can always switch to the alternate mode (see chapter «Alternate Mode»). The list of buried subjects is deleted at this time.

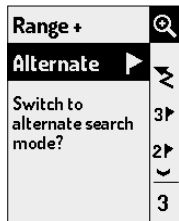
If you recognize a discrepancy between your “mental map” of the avalanche and the indications on the transceiver, this is an unquestionable indication that not all buried subjects can be located using the standard mode. In this case, it is advised to switch to the alternate mode, which is optimized for search strategies such as 3-circle, micro box or micro strips.

Alternate Mode


In the alternate mode, the transceiver shows distance and direction to the subject with the strongest signal and provides an analog tone. The alternate mode is mostly used when a clear separation of multiple burials is no longer possible in the digital standard mode.

Switching from standard mode to alternate mode is achieved by scrolling to the magnifying glass symbol and selecting alternate.

Leave alternate search mode by pressing the -key.



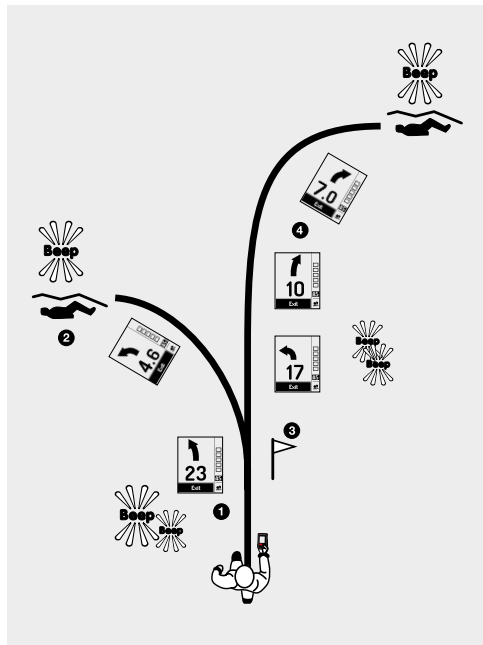
Multiple Buried Subjects in Alternate Mode

If multiple burials are detected in alternate mode, an icon symbolizing multiple burials is shown on the display . Additionally, you can also hear the analog tones. These are helpful in distinguishing the signals acoustically. **The device favors the closest subject.**

The detection of multiple burials may vary based on the subject's orientation and distance relative to the rescuer. Turn off the transceivers of the excavated subjects to facilitate the further search. If you don't know the number of buried subjects, you must search the entire avalanche path using the search patterns described in the chapter «Signal Search».

Search Tactics with Multiple, Widely Scattered Burials

1. Mark the location on the avalanche where the «multiple burial» icon appeared on the display or where you left the signal search pattern.
2. Search for the first buried subject using the information on the display along with the analog tones. Once this subject is located, you or other rescuers should dig him or her out immediately.
3. Continue to search for other buried subjects by returning to the previously marked point.
4. Strictly adhere to the signal search pattern and continue down the avalanche path until you are led to the next subject. Initially, the transceiver will want to take you to the previously located subject, because he or she is still the closest. Ignore these indicators until you notice that the transceiver is pursuing a new subject.



Search Tactics with Multiple Burials in Close Proximity

The interpretation of the acoustic signals is extremely important in this situation. These must be interpreted in connection with the distance readings.

Example:

You hear three beeps and the distance reading jumps between 3.5 and 4.8 m. Therefore, three buried subjects can be expected within a radius of 5 m.

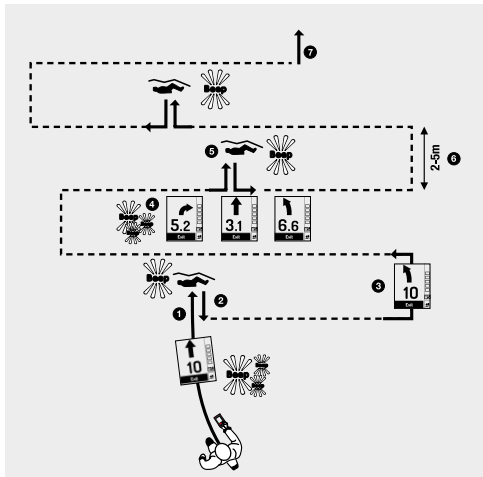
Search Using Micro Search Strips

If you have multiple burials within less than 10 meters, you search using micro search strips.

1. Locate and dig out the first buried subject.
2. Back up until the display shows 10 and search the area in front of you in parallel search strips.
3. As soon as the distance indication reads 10, you have reached the side of the search strip. Advance 2 to 5 meters and return on the next parallel search strip until this search strip ends as well (distance indication > 10).
4. Maintain the orientation of the transceiver during this phase and concentrate on the increase or decrease of the distance indication as well as the volume of the analog tones.
5. At the point with the lowest distance reading, you leave the micro search strip pattern to fine search the buried subject through bracketing. Once the subject is located, you return to the location where you left off in order to continue the pattern.
6. The more buried subjects there are and the closer these are, the tighter the micro search strip grid on the potential search area should be. As a rule of thumb, the search strip width should be between 2 and 5 meters.

7. Continue the pattern, until the distance reading in an entire strip never drops below 10. Then revert to the signal search pattern and search the rest of the avalanche.

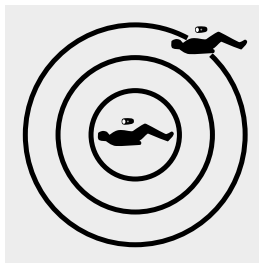
The avalanche probe is very helpful in locating multiple buried subjects in close proximity.



Further Search Methods

There are further methods to search for multiple buried subjects in close proximity.

The 3-circle method uses concentric, circular search strips with radiuses of three, six, and nine meters around the first located subject. As with the micro search strips, the locations with the strongest signal strength are of interest. From there the subjects are located using a traditional bracketing method..



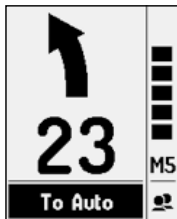
Manual Volume Control in Analog Mode

The user can manually change the sensitivity by pressing the up key for + and the down key for -. A1 represents the shortest, A5 the greatest distance to the buried subject.

As soon as the volume is set manually, the volume bars are shown in solid black colour.

Press the  button to return to automatic volume control.

If the volume is set too high or too low, the distance and direction indications become unreliable, and a blinking display prompts the user to adjust the volume.



Use in the Dark

If you use the transceiver in the dark, the display is automatically backlit.

Maintenance and Repair

Barryvox transceivers, which do not function correctly, despite full and properly inserted batteries (e.g. no signal during the group check, mechanical defects) must be sent to a service center listed at the beginning of this manual.

Maintenance

In the maintenance tab, which you may access when shutting down the transceiver, the date of the next check as well as the software (SW) and hardware (HW) version can be displayed.

Periodic check by a Barryvox Service Center

To check the proper function of the device it is highly recommended that the device be sent to a Barryvox service center every 3 years, or when reaching 3000 hours of operation or have it checked by a Barryvox service point (service charge will apply). The functional test is much more comprehensive and precise than the self and group check. As part of this service the electronics and the mechanical components such as the case, the main switch and the lateral key, the battery contacts, the battery compartment and cover as well as the wrist strap will be checked. In case the check shows abnormal wear and tear due to incorrect or long, very intense use, the service center may recommend that you replace the device.

We recommend that you have your device checked during the summer months so that your Barryvox is tested and ready to use at the start of the next winter season. In the "Maintenance" tab which you may access when shutting down the transceiver, you can see when the next check is due.

Warranty

There is a 2 year warranty on the Barryvox® transceiver (excluding the batteries, the carrying system and the leash) from the date of purchase shown on the purchase receipt.

If you register your device on www.Barryvox.com by completely filling in the required information, the existing warranty duration, starting from the date of purchase shown on the purchase receipt, will be prolonged by an additional 3 years of warranty.

In case of a warranty claim, all parts that can be shown to have material or production defects will be replaced free of charge. Damage that can be traced to incorrect handling or normal wear and tear is excluded.

The warranty is voided if the buyer or any non-authorized third party opens the device. This is also the case for devices that have been used with spare parts or accessories which are not original and are not recommended by the manufacturer.

A fee will be charged for the diagnostic test of a transceiver not needing any repair. Warranty repairs do not extend the duration of the warranty. There is a six month warranty on replaced spare parts. Warranty repairs will only be conducted if the device is sent in along with the receipt.

The owner will be charged for the shipping. No other warranty shall exist. Any liability for any kind of loss or damage including but not limited to any direct, indirect or consequential damage is explicitly excluded.

Technical Data

Device: Digital-analog device with 3 antennas.

Transmit frequency: 457 kHz (International Standard).

Power supply: 3 x LR03 1.5 V Alkaline (AAA)
or 3 x LR92 1.5 V Lithium (AAA).

Battery life with alkaline:

typical 300 h SEND, min 200 h in SEND mode followed by 1 h in SEARCH mode.

Battery life with lithium:

typical 350h SEND, min 200 h in SEND mode followed by 1 h in SEARCH mode.

Maximum range: up to 70 m in standard search mode.

Search strip width: 70 m in standard search mode,
100 m in extended range search mode.

Operating temperature range: -25° to $+45^{\circ}$ C.

Dimensions (L x W x H): 115 x 67 x 27 mm.

Weight: 210 g (incl. batteries).

All information is provided without liability. Status July 2017.
Technical data and specifications are subject to change
without notice

Disposal Information

At the end of its lifetime, this product may not be disposed with regular waste. It must be recycled by a specialized facility for recycling electronic devices.



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COMPANION RESCUE

Companion rescue means that buried subjects are located and excavated by members of their party immediately after the avalanche slide. Avalanche rescue is a race against time! While most buried subjects can be rescued within the first 18 minutes, the chances of survival decrease rapidly afterwards. Companion rescue, therefore, provides the greatest chances of survival for a buried subject.

If an Avalanche Occurs

As a Victim:

- ▶ Escape to the side
- ▶ Discard skis, snowboards, and poles
 - ▶ anchor effect
- ▶ Try to stay on top
- ▶ Close your mouth; place your hands in front of your face
 - ▶ clear airway when the avalanche stops

Separate instructions apply for the use of specialized safety equipment, such as the highly efficient avalanche airbag.

As a Witness:

- ▶ Memorize the last seen point as well as the direction of the avalanche
 - ▶ signal search strip
(See chapter «Signal Search»).

Personal Rescue Equipment

Carrying the proper personal safety equipment is critical for effective companion rescue. A transceiver, a shovel, and a probe pole are necessary to localize and excavate a buried subject quickly and efficiently.

Mammut offers a variety of suitable probe poles and shovels. The use of an airbag system (flotation device) significantly reduces the risk of complete burial and therefore leads to considerably higher survival chances.



The use of the transceiver precedes the use of the probe pole and the use of the probe pole precedes the use of the shovel. Carrying a radio or a mobile phone to call for help is highly recommended.

Emergency Plan

CALL FOR HELP

1. Scene assessment
2. If possible, use the snow sport equipment until you reach fine search.
Keep your backpack with gear with you at all times.
3. I am searching with my transceiver: SEARCH
I am not searching: Rescue-SEND
4. At least one rescuer immediately starts transceiver SEARCH, while looking and listening at the same time
5. Assemble probe and shovel only when the fine search is concluded
6. Transceiver search finished: all transceivers to SEND
7. Excavate – First Aid

The emergency plan shows the elementary steps for a successful companion rescue.

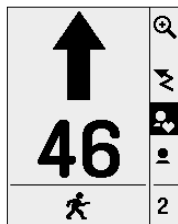
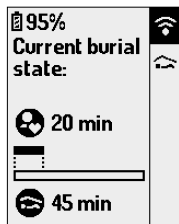
Depending on the situation at hand, the procedure must be adapted.





Triage Criteria and Vital Data


Triage

With limited resources (few rescuers) it is not possible to locate and dig out all the buried subjects at the same time. The question arises in which order the buried subjects shall be rescued. Subjects with higher chances of survival should be located and dug out first. Besides simple terrain factors, e.g. drop over a cliff, in seracs or crevasses, collision with trees etc., the burial depth and vital data are important triage criteria.



Vital Data Detection

The Barryvox® S contains highly sensitive sensors (g-sensor) that can detect slight motion of the body, such as a pumping heart or breathing lungs. Any motion within a certain time is interpreted as vital data. The buried subject with a heart-icon  indicates high chances of survival. It can be assumed that buried subjects, which have survived the first 35 min, are still able to breathe (air pocket), and therefore have increased chances of survival. At the same time, the detectability of vital data decreases due to hypothermia. Therefore, buried subjects who have transmitted vital data for the first 35 min are considered to belong to the category  with high chances of survival for the rest of their burial duration.

All the buried subjects, whose transceivers are technically not capable of detecting vital data or cannot detect any for whatever reason, belong to the category  unknown chances of survival.

If you carry the transceiver in a trouser's pocket, the detection of vital data is not possible due to the almost non-existent movements.

The data are displayed on the buried subject's transceiver and also sent across the W-Link radio connection to the transceivers of the rescuers. Based on the list of buried subjects, the

rescuer decides in which order he or she will locate and dig them out. Using vital data as a triage criteria shortens the burial duration for those subjects having (heart) higher chances of survival. This improves the overall rescue efficiency.

The vital data do not provide an assessment of the health of the buried subject. They do not substitute an assessment by medically trained personnel (physician).

Only rescuers using a transceiver with a W-Link radio connection are able to receive vital data.

The range of the W-Link depends on terrain and body interference, on the physical characteristics of the avalanche debris as well as on the orientation and distance to the buried subject. The range of the W-Link is therefore limited.

Burial and Vital Duration

In case of a burial, the transceiver records the burial duration and detects vital data.

The Barryvox® S automatically displays the burial duration as soon as the transceiver stops being moved.

The burial duration is displayed in hours and minutes along with the time during which vital data was detected. The display of the burial duration is also activated, if the Barryvox S stops moving outside of an avalanche.

By pressing any key in the SEND mode, you can recall the burial data of the five last resting periods of the transceiver.

The resting periods are in chronologic order:

- Current recent resting period
- 🕒 last resting period
- 🕒 second last resting period
- 🕒 third resting period
- 🕒 oldest resting phase

No Probe Hit

If the buried subject cannot be found by the probe, place the probe approx. 1.5 meter above the point with the lowest distance indication. While digging, enough space is now made available to allow a further fine and pinpoint search within the excavation site.

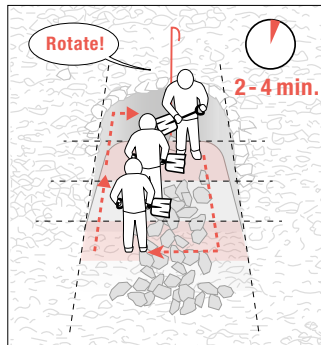
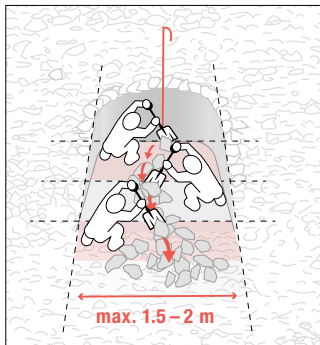
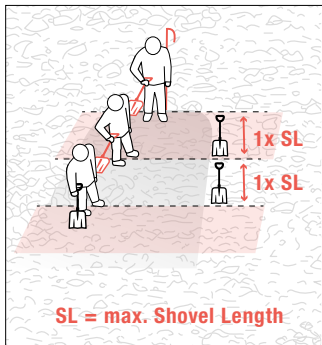
For further information concerning the search and excavation of deep burials, please consult in publications on "Fine Search in a Circle".

Excavating the Buried Subject

The first rescuer positions him/herself directly at the probe. All additional rescuers position themselves one shovel length from each other in the direction of snow removal, thus typically in the fall line.

The rescuer at the tip of the conveyor belt digs directly following the probe to the buried subject, thus avoiding any chance to miss it.

BarryTip: in hard snow, cut blocks with the shovel. In case of multiple burials, switch off the transceiver of the buried subjects as soon as possible.



DECLARATIONS OF CONFORMITY

USA/Canada/New Zealand/Australia

In this region the Barryvox® W-Link operates in the 915MHz band.

Type / Model: Barryvox® S 7600.0033

IC: 8038A-BARRYVOXS

FCC ID: ARN-BARRYVOX-S



E5720

Canada: IC Statement

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

1. This device may not cause interference and
2. This device must accept any interference, including interference that causes undesired operation of the device

Le présent appareil est conforme CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

1. *l'appareil ne doit pas produire de brouillage, et*
2. *l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement*

USA: FCC Statement

This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residual installation. This equipment generates, uses and can radiate frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help
- To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with the Part 15 of the FCC Rules. 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.

Europe

In this region the Barryvox® W-Link operates in the 868MHz band.

Type / Model: Barryvox® S 7600.0032 (W-Link enabled)
Barryvox® S 7600.0034 (W-Link disabled)

For additional information concerning the «EU Declaration of Conformity», please visit: www.mammut.com/BarryvoxManual

Europe – EU Declaration of Conformity

bg	С настоящото Mammut Sports Group AG декларира, че този тип радиосъоръжение Barryvox®S е в съответствие с Директива 2014/53/EC. Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес: www.mammut.ch/BarryvoxManual
cs	Tímto Mammut Sports Group AG prohlašuje, že typ rádiového zařízení Barryvox®S je v souladu se směrnicí 2014/53/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese: www.mammut.ch/BarryvoxManual
da	Hermed erklærer Mammut Sports Group AG, at radioudstyrstypen Barryvox®S er i overensstemmelse med direktiv 2014/53/EU. EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse: www.mammut.ch/BarryvoxManual
de	Hiermit erkläre Mammut Sports Group AG, dass der Funkanlagentyp Barryvox®S der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: www.mammut.ch/BarryvoxManual
et	Käesolevaga deklareerib Mammut Sports Group AG, et käesolev raadioseadme tüüp Barryvox®S vastab direktiivi 2014/53/EL nõuetele. ELi vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil: www.mammut.ch/BarryvoxManual
en	Hereby, Mammut Sports Group AG declares that the radio equipment type Barryvox®S is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.mammut.ch/BarryvoxManual
es	Por la presente, Mammut Sports Group AG declara que el tipo de equipo radioeléctrico Barryvox®S es conforme con la Directiva 2014/53/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: www.mammut.ch/BarryvoxManual
el	Με την παρούσα ο/η Mammut Sports Group AG, δηλώνει ότι ο ραδιοεξοπλισμός Barryvox®S πληροί την οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: www.mammut.ch/BarryvoxManual
fr	Le soussigné, Mammut Sports Group AG, déclare que l'équipement radioélectrique du type Barryvox®S est conforme à la directive 2014/53/UE. Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante: www.mammut.ch/BarryvoxManual
hr	Mammut Sports Group AG ovime izjavljuje da je radijska oprema tipa Barryvox®S u skladu s Direktivom 2014/53/EU. Cjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi: www.mammut.ch/BarryvoxManual

it	Il fabbricante, Mammuto Sports Group AG, dichiara che il tipo di apparecchiatura radio Barryvox®S è conforme alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: www.mammut.ch/BarryvoxManual
lv	Ar šo Mammuto Sports Group AG deklarē, ka radioiekārta Barryvox®S atbilst Direktīvai 2014/53/ES. Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē: www.mammut.ch/BarryvoxManual
lt	Aš, Mammuto Sports Group AG, patvirtinu, kad radijo įrenginių tipas Barryvox®S atitinka Direktyvą 2014/53/ES. Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu: www.mammut.ch/BarryvoxManual
nl	Hierbij verklaar ik, Mammuto Sports Group AG, dat het type radioapparatuur Barryvox®S conform is met Richtlijn 2014/53/EU. De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: www.mammut.ch/BarryvoxManual
mt	B'dan, Mammuto Sports Group AG, niddikjara li dan it-tip ta' taghmir tar-radju Barryvox®S huwa konformi mad-Direttiva 2014/53/UE. It-test kollu tad-dikjarazzjoni ta' konformità tal-UE huwa disponibbli f'dan l-indirizz tal-Internet li ġej: www.mammut.ch/BarryvoxManual
hu	Mammuto Sports Group AG igazolja, hogy a Barryvox®S típusú rádióberendezés megfelel a 2014/53/EU irányelvnek. Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: www.mammut.ch/BarryvoxManual
pl	Mammuto Sports Group AG niniejszym oświadczam, że typ urządzenia radiowego Barryvox®S jest zgodny z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym: www.mammut.ch/BarryvoxManual
pt	Prin prezenta, Mammuto Sports Group AG declară că tipul de echipamente radio Barryvox®S este în conformitate cu Directiva 2014/53/UE. Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet: www.mammut.ch/BarryvoxManual
ro	O abaixo assinado Mammuto Sports Group AG declara que o presente tipo de equipamento de rádio Barryvox®S está em conformidade com a Diretiva 2014/53/UE. O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet: www.mammut.ch/BarryvoxManual
sl	Mammuto Sports Group AG potrjuje, da je tip radijske opreme Barryvox®S skladen z Direktivo 2014/53/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: www.mammut.ch/BarryvoxManual
sk	Mammuto Sports Group AG týmto vyhlasuje, že rádiové zariadenie typu [označenie typu rádiového zariadenia] je v súlade so smernicou 2014/53/EÚ. Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese: www.mammut.ch/BarryvoxManual
fi	Mammuto Sports Group AG vakuuttaa, että radiolaitetyyppi Barryvox®S on direktiivin 2014/53/EU mukainen. EU-vaatimusten mukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa: www.mammut.ch/BarryvoxManual
sv	Härmed försäkrar Mammuto Sports Group AG att denna typ av radioutrustning Barryvox®S överensstämmer med direktiv 2014/53/EU. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: www.mammut.ch/BarryvoxManual

AVALANCHE SAFETY

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