



09/08





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# PIEPS FREERIDE

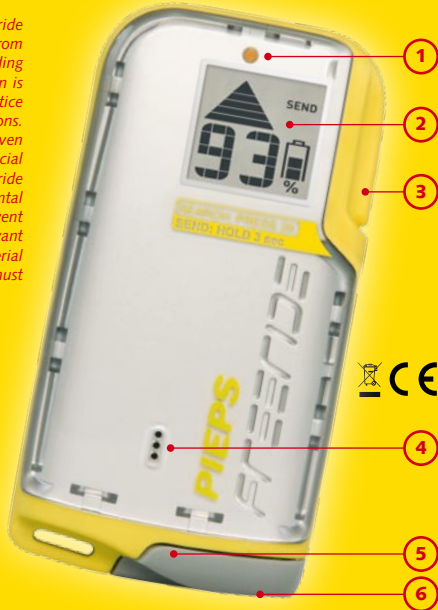
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## DEAR WINTER SPORTS ENTHUSIAST!

We're delighted that you have chosen to purchase a PIEPS search device for avalanche victims. The PIEPS Freeride is a standards-compliant, fully digital single antenna avalanche transceiver forming part of the PIEPS safety system (shovel, probe, avalanche transceiver). Used in combination with the electronic PIEPS iPROBE, the PIEPS Freeride offers an efficient solution for cases of multiple burial.

**IMPORTANT!** The PIEPS Freeride device cannot protect you from avalanches. A thorough understanding of the topic of avalanche prevention is just as indispensable as regular practice of beacon search in accident situations. The procedures and advices given below relate exclusively to the special case of searching using PIEPS Freeride avalanche beacon. The fundamental rules for the procedure in the event of an accident, in line with relevant technical publications and material from avalanche training courses, must be complied with.

- 1 Transmission check light
- 2 LCD display: simple overview with illumination for poor light conditions
- 3 SEND-SEARCH switch
- 4 dynamically responsive audio output aids victim search
- 5 ON-OFF main switch
- 6 Battery compartment requires only one conventional AA (LR6) 1.5V battery



## CARRYING HARNESS



Carry your PIEPS Freeride using the supplied carrying harness, on your body and outside the innermost layer of clothing. The clasp on the safety strap must be connected to the appropriate sling (=recommended and safest option). There is also the option to carry the PIEPS Freeride in a securely fastenable trouser pocket without a protective case, though here it is important to fix the safety strap to the clothing in an appropriate way so as to rule out losing the avalanche transceiver.

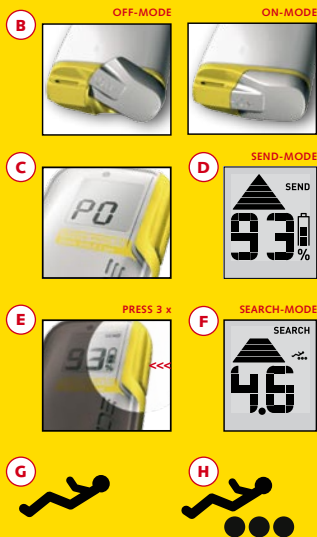
**IMPORTANT!** Always carry the PIEPS Freeride under as many layers of clothing as possible, as near as possible to your body.

## BASIC FUNCTIONS

ON OPEN GROUND (ON SKI TOURS OR OFF-PISTE), ALWAYS CARRY THE PIEPS FREERIDE IN TRANSMISSION MODE "ON".



- A** Battery compartment requires only one battery
- B** OFF | ON | Send-Mode
- C** Fall back function in case of a second avalanche
- D** Send-Mode: Battery-level in %-indication; flashing arrow
- E** Search-Mode: Switch your PIEPS Freeride from transmit to receive mode by pressing 3 times on the "Send-Search" switch. Send-Mode: Press the „Send-Search“-switch min. 2 seconds
- F** Dynamic flux line indication (arrow) and distance-indication: The arrow on the dynamic field direction display is 100% full so long as the PIEPS Freeride is aligned with a field line
- G** Symbol for "1 victim" within reception zone
- H** Symbol for "multiple burial"  
In a case of multiple burial, all signals are processed simultaneously, but only the strongest signal is shown on the display



## SELF-TESTING BY SWITCHING ON

When powered on, the PIEPS Freeride will carry out a self-test lasting approx. 5 seconds. During this self-test a minimum distance of 5 meters to other beacons should be maintained. You will then see the send symbol and the remaining % battery voltage in the display. The LED will also flash synchronously with the transmitter bit timing. In the event of a device error, an alert signal sounds and the display indicates "E" in combination with a permanent error-code. This means the device is not fit for operation. In this case, contact our customer service department. When in the open, make sure the "SEND" mode is selected throughout. The PIEPS Freeride will then transmit continuously any signal it picks up from other beacons.

**IMPORTANT!** When switched on, a complex self-testing is done by the beacon. Nevertheless beacon-group-check is strongly recommended in preparation to each tour.

## FALL BACK FUNCTION IN CASE OF A SECOND AVALANCHE

Right after switching on the device, the status of the added automatic fall back function is shown. While keeping the button pressed, it's possible to switch from P0 to P3, P5 and P8. The numbers show the preset time in minutes. When using P0 (default from manufacturer) this function is disabled. When activated, the transceiver automatically falls back to transmit mode, when the preset time has past without any press of the button. Right before falling back, a warning signal is issued!

## BACKGROUND LIGHTING

This function is only available in the "Search"-Mode.

Switch your PIEPS Freeride from transmit to receive mode (see basic functions point E). To activate the background lighting press the "Send-Search"-Button. Press the button once again and the transmission check light is activated as an emergency light. To switch both lights off, press the "Send-Search"-Button again.



## IN THE EVENT OF AN ACCIDENTS

A victim has the best chance of being rescued if the largest possible number of companions in a given group have not been buried and work efficiently as a team on the task of rescuing their companion. In the event of an accident, the most important considerations are **STAY CALM, OBSERVE, RAISE THE ALARM.**

- (1) Determine location of coverage and disappearance:** How many victims buried? Are there several companions ready to engage in rescue? The most experienced person takes over assignment and management – see PIEPS DVD “Slab avalanche – what to do?”
- (2) Call emergency services:** Dial 112 (EU), if this is possible without losing time.
- (3) Establish search areas:** Where are the probable burial locations?
- (4) Surface search:** Search for the avalanche cone with your eyes and ears.
- (5) Search with avalanche transceiver:** Switch off non-searching avalanche transceivers.
- (6) Depth measurement:** Check the search results. Leave probe in place. Deactivate the avalanche transceiver using iProbe by means of iPROBE Support.
- (7) Dig:** Start digging at a distance from the probe equal to the indicated depth of burial. Dig over a large area. Watch out for any breathing cavity by the victim.
- (8) Rescue and first aid:** First clear the face and airways. Protect from cold.

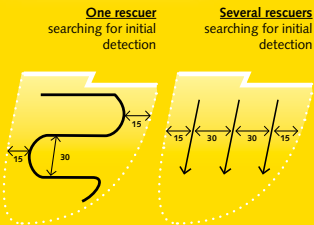
**IMPORTANT!** Ensure that, during search, there are no electronic devices (e.g. mobile phones, radio equipment etc.) or massive metal items in the immediate vicinity. The fundamental rules for the procedure in the event of an accident, in line with relevant technical publications and material from avalanche training courses, must be complied with.

## SEARCH-MODE

Switch your PIEPS Freeride from transmit to receive mode by pressing 3 times on the “Send-Search” switch.



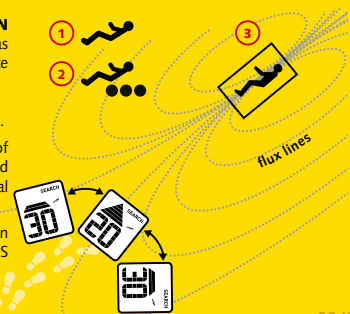
**SEARCH FOR INITIAL DETECTION:** Walk quickly over the defined search area in a pattern corresponding with the recommended search strip width while searching for initial detection. Given that every standards-compliant avalanche transceiver transmits only approx. once per second, turn your PIEPS Freeride slowly in all directions (in three dimensions). The recommended search strip width for the PIEPS Freeride is 30 meter.



**IMPORTANT!** In SEARCH mode work calmly with full concentration. Avoid hasty movements. In SEARCH mode no signal is transmitted. In the event of a second avalanche, hold the “Send-Search” switch down for 3 seconds in order to resume SEND mode.

**SEARCH FROM INITIAL DETECTION THROUGH TO CLOSE SEARCH:** As soon as the PIEPS Freeride receives signals, the approximate distance to the victim is shown on the display:

- (1) Symbol for “1 victim”** within reception zone.
- (2) Symbol for “multiple burial”:** In a case of multiple burial, all signals are processed simultaneously, but only the strongest signal is shown on the display.
- (3) The arrow on the dynamic field direction display is 100% full** so long as the PIEPS Freeride is aligned with a field line:



## SEARCH-MODE / CLOSE SEARCH

For distances closer than 5m, the search speed should be reduced to a maximum of one step per change in display (between 0.5 and 1.3 seconds depending on avalanche transceiver model). At an distance indication less than 2 m, carry your PIEPS Freeride in search mode right on the surface of the snow. The dynamically responsive audio output (the nearer you get, the faster it sounds) aids with locating the point.

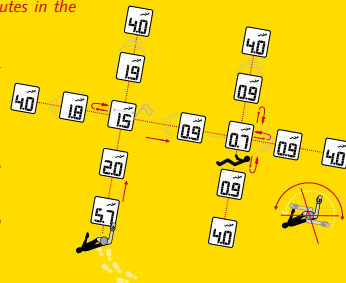
**IMPORTANT!** While pinpointing, don't make any fast movements (20-40 cm/sec). During the entire point locating procedure, hold the device level in the same position without rotating it and as close as possible to the surface of the snow.

Continue moving in the most recently followed direction until the indicated distance begins to increase again. Mark the point of minimum indicated distance ("maximum 1") with a glove for example and continue in the marked direction (3m-4m) looking for any further maxima. If there are no further minima of indicated distance along this axis, return to the marked maximum 1 (glove) and try to determine the minimum distance by executing repeated cross scans separated by 90 degrees in each case. If during cross scans in the four possible directions the distance should reduce further, then continue in this direction till the distance starts to increase again (mark maximum 2 with a glove) and start again with the cross scanning described earlier. Again continue 3-4m along the same axis searching for any further maxima. Continue with this procedure until no further reduction in distance can be detected.

**IMPORTANT!** Practice your preferred search method. Only this way will you gain valuable seconds or minutes in the event of an emergency rescue of a companion.

**IMPORTANT!** With avalanche transceivers that receive by means of one or two antennae, up to 3 maxima (3 indicated distance minima) are possible.

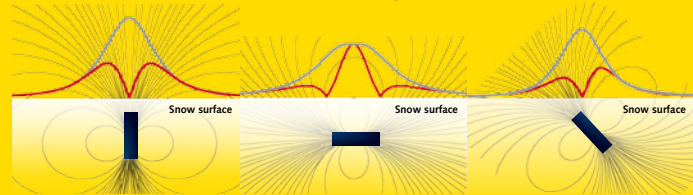
**IMPORTANT!** Only a high specified triple antenna system as used in the PIEPS DSP consistently yields a single maximum on the display during point location by virtue of its three-dimensional reception zone. The smallest indicated distance is the shortest distance to the victim.



Vertical transmitter:  
Two maxima (right and left).

Horizontal transmitter  
in the event of deep burial (>1m):  
Three maxima (right, left and  
above the victim).

Tilted transmitter:  
Two maxima (right and left)!



## MULTIPLE BURIAL

**1) Situation:** Two avalanche victims are carrying avalanche transceivers without iPROBE-Support. Two rescuers equipped with the PIEPS safety system (PIEPS Freeride; PIEPS iProbe; PIEPS "Tour" shovel). At first the rescuer has no initial detection.

- Rapidly patrol the search area using the recommended search strip width.
- As soon as they are in the reception zone of both transmitting avalanche transceivers, the symbol for multiple burial appears on the display.
- Only the strongest transmitted signal is shown on the display (approximate distance from nearest victim)
- With the aid of the dynamic field direction display, quickly follow the field line to the first victim. If the indicated distance increases, turn round 180 °.
- Point location is aided by the dynamically responding audio output.
- Depth measurement: the iPROBE's acoustic and visual target display confirms "on target". Leave the probe in position!
- The PIEPS Freeride's digital technology aids searching for further transmitted signals and their maxima with the aid of the "3 circle method" or "micro search strip method".
- While continuing the search for the second victim, the second rescuer begins digging with a view to first aid.
- Point location, depth measurement, digging out and recovery of the second victim.

## MULTIPLE BURIAL

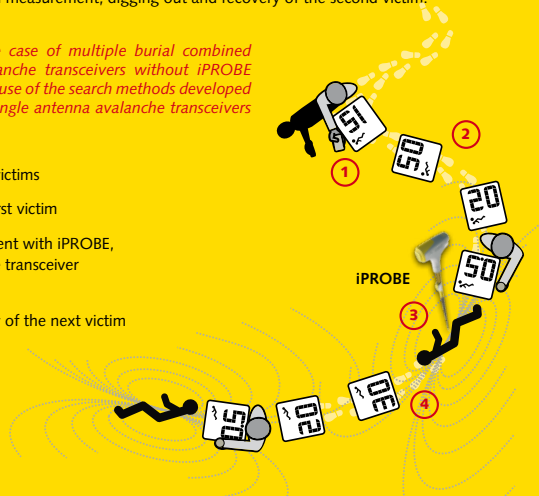


**2) Situation:** 2 victims are carrying PIEPS with iPROBE-Support (PIEPS DSP 5.0 or PIEPS Freeride). Two rescuers equipped with the PIEPS safety system (PIEPS Freeride; PIEPS iProbe; PIEPS "Tour" shovel). At first the rescuer has no initial detection.

- As described above to the point of depth measurement of first victim. **(1. situation)**
- After successful location (acoustic target located signal by means of PIEPS iProbe), deactivate the victim's transmitting PIEPS with iProbe Support. Leave the probe in position!
- Automatically, without the need to press any buttons, the PIEPS Freeride shows the next victim on the display.
- While continuing the search for the second victim, the second rescuer begins digging with a view to first aid.
- Point location, depth measurement, digging out and recovery of the second victim.

**IMPORTANT!** For the case of multiple burial combined with transmitting avalanche transceivers without iPROBE support, training in and use of the search methods developed and publicised for all single antenna avalanche transceivers is recommended.

- 1 Display shows 2 victims
- 2 Location of the first victim
- 3 Depth measurement with iPROBE, located avalanche transceiver is deactivated
- 4 Automatic display of the next victim



## SPECIFICATIONS

TECHNICAL DATA	
Device designation:	PIEPS FREERIDE
Transmission frequency:	457 kHz (intern. standard frequency)
Power supply:	1 battery, alkaline (AA), LR6, 1,5V
Battery lifetime:	min. 200 Std. Sendebetrieb
Maximum range:	40 metres
Temperature range:	-20°C to +45°C
Weight:	110 g
Dimensions:	(L x W X H) 110 x 58 x 24 mm
Option pack:	iPROBE-Support

## WARRANTY CONDITIONS

- The device is guaranteed by the manufacturer against defects in material and workmanship for a period of two years from the date of purchase.
- This warranty does not apply to damage caused by incorrect use, dropping or dismantling of the device by unauthorised persons.
- Any further warranty or liability for consequential damage is expressly excluded.
- Warranty claims should be addressed - enclosing the receipt of purchase – to the relevant sales outlet or directly to PIEPS.

**CERTIFICATION: Warning:** Any changes or modifications not expressly approved by the manufacturer, responsible for compliance, could void the user's authority to operate this device. **Europe:** Manufacturer: PIEPS GmbH, Country of manufacture: Austria; Gerätetype: PIEPS Freeride; The device conforms to the Standard ETS 300718 WEEE 2002/96/EC; **Canada:** IC: 7262A-FREE01; **USA:** FCC ID: REMFREE01, This device conforms to Paragraph 15 of the FCC regulations. 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.

**CONFORMITY:** PIEPS GmbH declares hereby, that the product PIEPS Freeride fulfils all requirements and regulations of directive 1999/5/EC! The declaration of conformity can be downloaded at the following source: [http://www.PIEPS.com/certification\\_PIEPS.pdf](http://www.PIEPS.com/certification_PIEPS.pdf)

## MANUFACTURER, DISTRIBUTION & SERVICES

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