

PREMIUM ALPINE PERFORMANCE



MANUAL **FREERIDE**

DEAR FELLOW MOUNTAINEER / SKIER!

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, transponder, avalanche transceiver). Used in combination with the PIEPS iProbe electronic transponder, 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 victim search in accident situations. The procedures and advice given below relate exclusively to the special case of searching using PIEPS FREERIDE victim search devices. 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 EQUIPMENT

Carry your PIEPS FREERIDE using the supplied carrying equipment, on your body and outside the innermost layer of clothing. The clasp on the safety line must be connected to the appropriate strap (=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 line to the clothing in an appropriate way so as to rule out losing the avalanche transceiver.

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

SWITCHING ON AND OFF

On open ground (on ski tours or off-piste), always carry the PIEPS Freeride in transmission mode "ON".



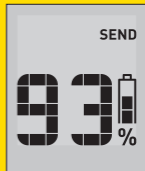
OFF-MODE



ON-MODE



TRANSMISSION MODE



Battery capacity in %

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 “What to do in the event of a snowboard accident”

(2) Call emergency services

Dial 140 or 112, 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 transponder in place. Deactivate the avalanche transceiver using iProbe by means of iProbe Support.

(7) Dig

Start digging at a distance from the transponder 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 / COARSE SEARCH

Switch your Pieps Freeride from transmit to receive mode by pressing 3 times on the "Send-Search" switch.



SEARCH FOR INITIAL DETECTION

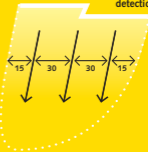
Walk quickly over the defined search area in a pattern corresponding with the recommended search strip width whilst searching for initial detection. Given that every standards-compliant avalanche transceiver transmits only around once per second, turn your Pieps Freeride slowly in all directions (in three dimensions). The recommended search strip width for the Pieps Freeride is 30m.

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.

A rescuer searching for initial detection



Several rescuers searching for initial detection



SEARCH FROM INITIAL DETECTION THROUGH TO FINE SEARCH (COARSE 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:

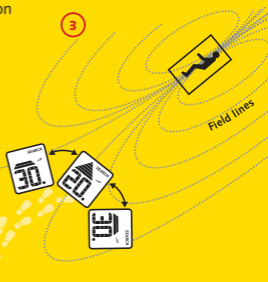
1



2



3



SEARCH MODE / FINE SEARCH (point location)

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 indicated distance of 2m at the latest, 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! *When locating the point 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.*

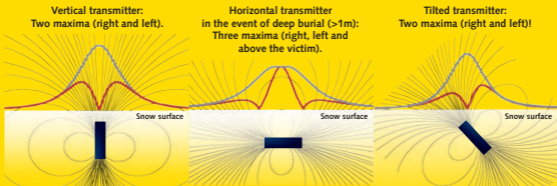
Continue moving in the most recently followed direction until the indicated distance begins to increase again. Mark the point of minimum indicated distance ("maximum 1") with a glove for example and continue in the marked direction (3m-4m) looking for any further minima. If there are no further minima 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-specification 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.

MULTIPLE BURIAL

Situation: Two avalanche victims are carrying avalanche transceivers without Pieps-Support. Two rescuers equipped with the Pieps safety system (Pieps Freeride; iProbe transponder; 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”.
- 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”.
- Whilst the search for the second victim commences, 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

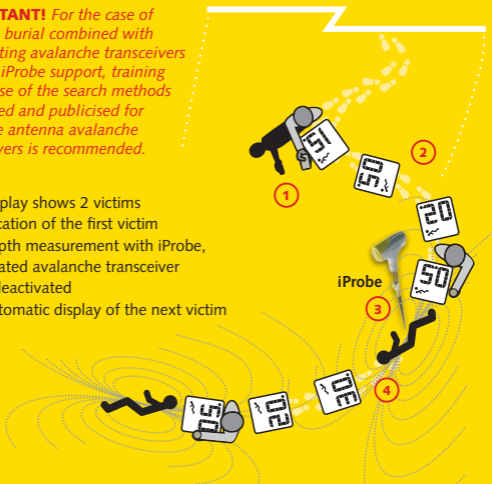
Situation: 2 victims are carrying Pieps with Pieps Support (Pieps DSP 5.0 or Pieps "Freeride"). Two rescuers equipped with the Pieps safety system (Pieps Freeride; iProbe transponder; Pieps "Tour" shovel). At first the rescuer has no initial detection.

- As described above to the point of depth measurement of first victim.
- After successful location (acoustic target located signal by means of Pieps iProbe), deactivate the victim's transmitting Pieps with iProbe Support.
- Automatically, without the need to press any buttons, the Pieps Freeride shows the next victim on the display.
- Whilst the search for the second victim commences, 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_dsp.pdf

MANUFACTURER, DISTRIBUTION & SERVICES

PIEPS GmbH, Frauentalerstraße 102, 8530 Deutschlandsberg, Austria

e-mail: office@pieps.com, www.pieps.com



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