



## PIEPS DSP Firmware Release 5.0

**Thank you for using PIEPS Products!** In ordinary of your safety, our R&D team is permanently working on improvements of the device firmware, which reflects all our experiences from the rough outdoor practice. Taking into account tremendous efforts for maintaining every single PIEPS-DSP beacons we've ever sold, we now proudly presents the latest firmware release for your High-End digital avalanche beacon PIEPS-DSP with the following innovations:

**The SMART TRANSMITTER** is also receiver and quickly locates the signals transmitted by another buried victim in close proximity! It lines up all of these signals and sends its own signal precisely in the impulse pauses.

**iPROBE Support:** The DSP now can be deactivated temporarily by the iPROBE and the searcher can focus on the next strongest signal! So PIEPS provides the first truly 100% perfect safety solution for multiple avalanche burials!

**FREQUENCY MEASUREMENT** using the "↓" while in search mode: The frequency of the closest other beacon is measured and the deviation from the standardized 457kHz is indicated. The shown number is the deviation in Hz and the arrows indicates + (right) or - (left).

**"OLD BEACON MODE":** Most of the analogue beacons transmit a continuous carrier (noise) which can result in a lower accuracy of counted victims. Once detected, the matchstick men are still shown – but flashing – this indicates, that due to the noise probably more victims are shown!



**Improved MARK FUNCTION:** Due to an immense field experience (approx. 50.000 PIEPS DSPs are out there in the field) then MARK function could have been improved again. So we came closer again to the pure physical limitations, which are given, when you optimize the balance between marking capabilities, concurrent reception of signals with different frequencies and range for the next closest victim you are look for!

**Improved SCAN FUNCTION:** The new release now does the SCAN more than 2 times faster than the older ones. During the SCAN an increased bandwidth of  $\pm 500$  Hz is used.

A detection of defect beacons is done by shown by a flashing "500" after the scan. In this case they actual used bandwidth keeps maintained at  $\pm 500$  Hz.

**SELF-CHECK, SERIAL# AND RELEASE#:** The unique self-check capability using a 4th antenna inside the DSP has been improved and is now featuring the following scope of inspection: all antennas, all amplifiers, all frequencies, all processors. Additionally, the release- and serial number can be read with holding the SCAN button during power on of your beacon.

see also [www.pieps.com](http://www.pieps.com)

July, 2007



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