



(S)AR-Glasses

Augmented Reality for Search & Rescue

Overview

The (S)AR-glasses are using augmented reality techniques to support Search and Rescue Missions. Wirelessly connected to the (P)BD406 beacon decoder, the (S)AR-glasses are showing the direction to reach a Search and Rescue target.

The (S)AR-glasses enhance situational awareness in demanding situation by providing essential data received by the (P)BD406 beacon decoder.

Up to 6 different beacons can be displayed simultaneously. The users can select from a list of detected beacons. Without impairing the sight even in difficult visual situations, the (S)AR-glasses support the operators with complete hands-free operation.



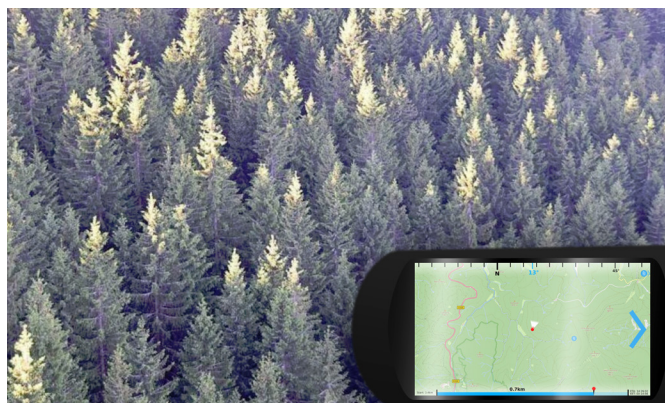
The (S)AR-glasses extend the real scene of what the user sees with a display. The display is not distracting to the usual view, but shows the most important information regarding the mission. With the help of the glasses, efficiency of the operation is increased due to the easy and fast gained additional information.

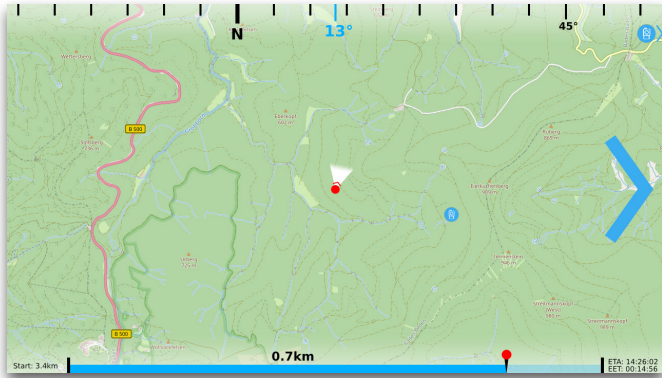
Features

- Completely wireless
- Hands-free operation
- Data selection via buttons
- Integrated self-test
- Situational awareness
 - Environment visible without limitation
 - Situational facts only
 - Mission and user-related data selection
- Multi-user
- Receive of up to 6 beacons
- Direct navigation towards the position of the selected distress beacon

Applications

- Search & Rescue operations
 - Sea rescue or on terrain
- Ground-to-ground missions with portable beacon decoder (PBD406)





(S)AR-glasses

Technical Data

(S)AR-Glasses	Specifications
Protocol reception and decoding	
Protocol	COSPAS/SARSAT, Vendor independent, 406 MHz
# of trackable beacons	6
Range / sensitivity	> 20 NM line-of-sight
Glasses	
Operation time	2...12 hours based on external battery choice
Daylight operation	yes
Night operation	yes
Head tracking	magnetic / gyro
Distance glasses user to receiver	max. 20 m (WLAN connection)
Interaction methods	Physical buttons, touchpad with 3 finger recognition
Antennas	GNS, COSPAS 406 MHz
Power Supply	+28 VDC or integrated battery for the manpack solution



BD406
Single Block Beacon Decoder



PBD406
Portable Beacon Decoder



PBD406
Portable Beacon Decoder