

## ASSA SAR

#### Mobile Search and Rescue System





Our mobile SAR System has been **developed in order to solve two critical issues** faced by SAR specialists worldwide:



Ability to accurately **locate** the victim in difficult terrain



**Communication** between rescue crews and victims in areas without GSM network coverage

Our tests have shown that search time can be significantly reduced using our System





#### About ASSA SAR



the equipment and conduct training sessions



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#### Functions



**LOCATE** mobile phones within 0.5 meter accuracy The range is up to:

- 1,400 m while operating from the ground
- 3,000 m while operating from a helicopter



CALL the victim even in areas without GSM network coverage

- Maintain up to 3 simultaneous calls between:
  - Rescue teams and people who have gone missing
  - Rescue professionals to communicate with each other



#### Send text **MESSAGE**

- Text messages can either be selected from previously composed standard messages or customized and sent to:
  - Every cell phone within the operating range simultaneously
  - Individual cell phones selected from the list



None of the functions requires local GSM network coverage



#### How does it work?

#### How does ASSA MobileSweep® Technology Work?



#### **Operating modes**

#### Our System offers two operating modes



Their use largely depends on the type of rescue mission and environment in which the System will be used.





#### **Operating modes** Target Mode

#### Target mode enables search for **specific mobile phones**





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#### **Operating modes** Area Mode

# Allows search of **all mobile phones in the area** specified by the operator from (10 up to 3,000m)







#### Possible applications for search modes







# Our mobile System was **designed specifically for SAR use** and numerous trials with Tatra Mountain Rescue Service enabled us **to find a balance between:**





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## Resistance



- Solid water and ash proof B&W case
- Rigid custom-made aluminum frame with additional vibroisolation – Further shock proofing
- Highest quality connectors that fulfill IP67 waterproof standards produced





#### Features Comfort

## Comfort



#### **Custom made:**

- · Construction of antenna mount
- Design of directional finders
- Backpack System







Battery type and configuration as well as many other components selected to achieve **high performance while maintaining weight of only 16.8kg** 



### Applications

Extremely durable construction of the System enables it to be used from:



#### **Key Parameters**





The system does not interfere with functioning of local GSM network

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#### **Battery life**

Battery life can be significantly extended using external battery pack provided by our partner – Husqvarna



ergonomic and durable battery packs come in two versions and enable the system to continuously operate for:

- Up to 4 hours 50 minutes BLi520x 36V 14,4 Ah
- Up to 8 hours 40 minutes BLi940x 36V 26,1
  Ah



#### Summary

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- Works on the following frequencies: GSM850, EGSM900, DCS 1800, PCS 1900
- Operating range up to **1400m** (open space while the System is on the ground) or up to **3000m** when used from a helicopter
- Send SMS to one mobile phone or all mobiles located within System's range
- Make calls between phones within the range of the system, even if there is no actual GSM network coverage
- Durable construction based on shock resistant, water and ash proof B&W case
- Full data storage that includes: IMSI, IMEI, and phone type

#### **Contact Information**

For more information and live demo please contact :

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## **THANK YOU**



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