



Military Tactical Equipment

SAR

ALL YOU NEED TO LOCATE THE TARGET

The Echologger RS900 SAR

- APPLICATIONS
- SAR Search and Recovery
 - Navigation for ROV/AUVs
 - Mine detection
 - Harbour security
 - Scour monitoring



HIGH RESOLUTION SCANNING SONAR
FOR UNDERWATER SEARCH AND RECOVERY

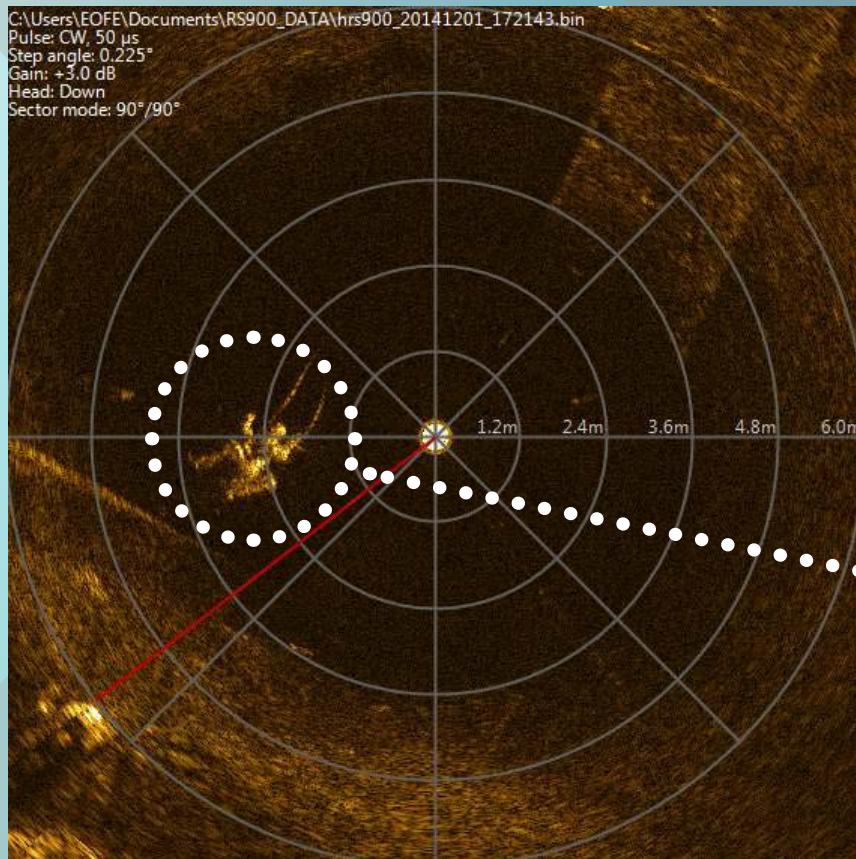
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RESCUE VISION UNDERWATER



Works like a
Radar underwater



In a fixed position,
the RS900 SAR
scans repetitively
searching in a 360 deg
pattern vertically and
horizontally

Please view
youtu.be/esDKOCv8vTU





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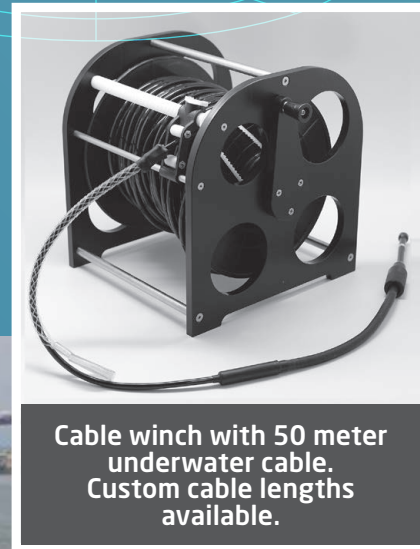
COMPACT AND EASY TO SET UP

STAR



Deploy the RS900 from a boat, pier, bank or bridge and commence scanning like a radar.

Unlike SSS (Side Scan Sonar) vehicles The RS900 Sonar can work independently in a small area. It doesn't rely on being towed and will not miss points of interest due to movement from towing.



Cable winch with 50 meter underwater cable. Custom cable lengths available.

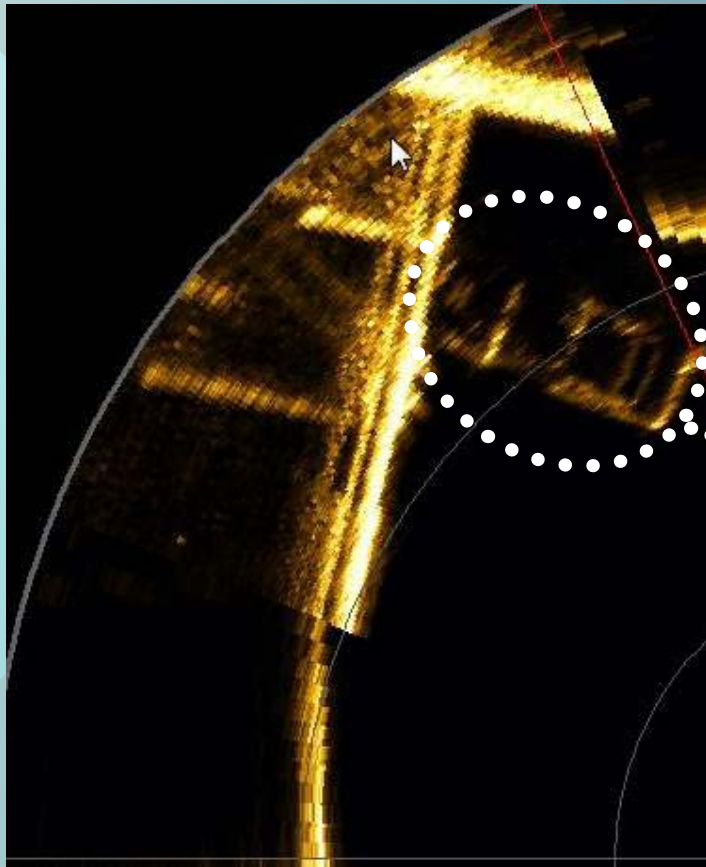




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DIVER'S SAFETY PARAMOUNT!



High resolution underwater images

Being able to ascertain the conditions underwater is an obvious advantage. Divers need not be totally blind to the rescue situation at hand. Diver's safety is paramount!



Sunken car in pool

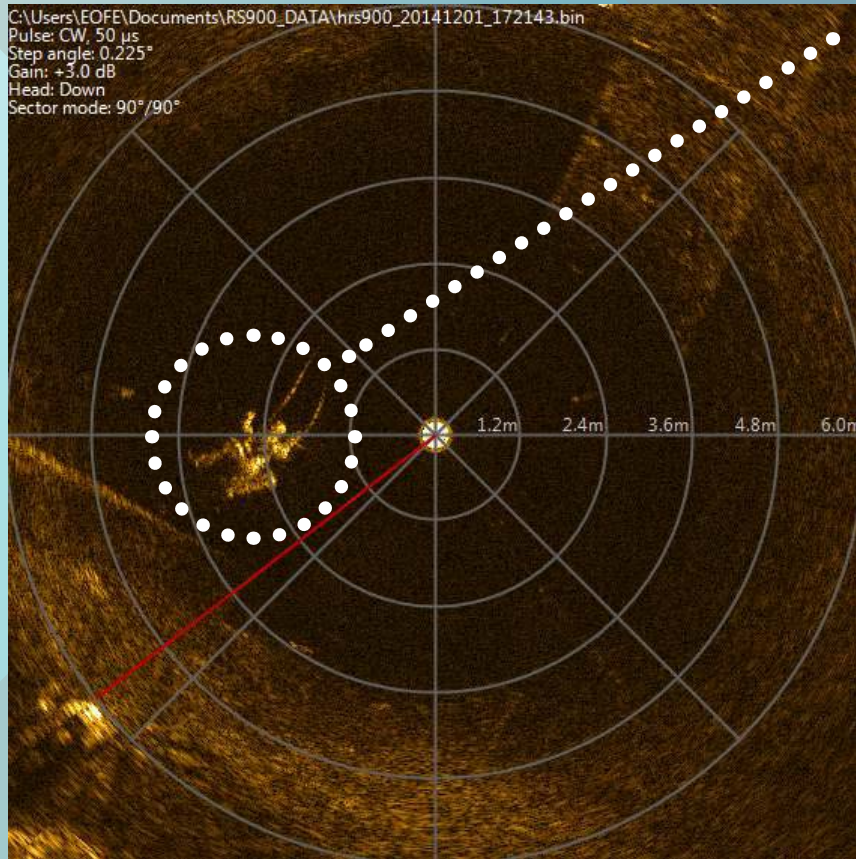




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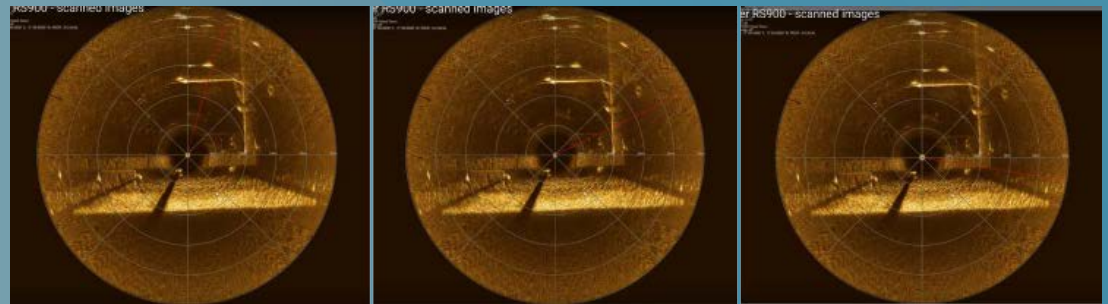


YOU MAY SAVE A LIFE!



When approaching the target area, scan again for a detailed underwater view.

- Real time high resolution underwater images
- High scanning speed
- User friendly GUI software (English, Russian, Korean)
- Non contact type slip-ring mechanism for scanning
- Rotation compensation using gyro and compass

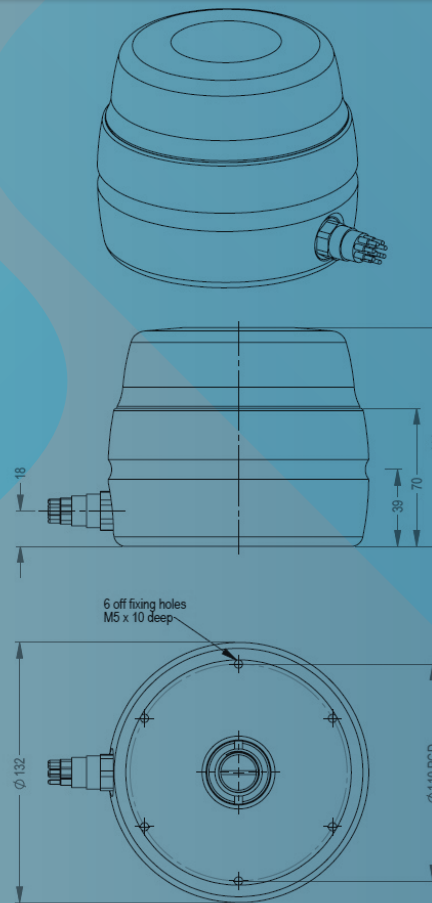




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SPECIFICATIONS - DIMENSIONS

Pulse	CHIRP and CW
Driving Frequency	900 kHz
Beam Angles	H0.8°, V30.0°
Max. Range	60mtrs
Range Resolution	15 mm @50kHz , 7.5 mm @100kHz sampling
Rotational Contact	Noncontact Transformer
Angle Resolution	0.1125°, 0.225°, 0.45°, 0.9°, 1.8°
Max. Scanning Speed	4sec @ 5 m, 0.9°
Transmitting Pulse Length	512 us (CHIRP), 10 - 100us (CW)
TVG	60 dB
Gain Control	-30 dB ~ + 30 dB
Interface MRS	RS232 / RS485 up to 3Mbaud
Motion Compensation	Enabled using Compass & Gyro.
Power Supply	12 - 72 VDC, 6W Max
Data Transmission	2 Mbaud@300mtrs, 115200 baud @1 km
Connector	SUBCONN MCBH4M (MCBH8M)
Depth Rate	1000 mtrs
Material	Al (Hard Anodised)
Dimensions	Dia.140 mm, Height 120 mm
Weight	2.6 kg(air) / 0.9 kg(water)



SAR



FEATURES

- Real time underwater imaging using acoustics
- High-resolution images with a piezo-composite broadband transducer
- Motion sensing using Compass & Gyro
- High scanning speed
- Full 360° scan & Sector scan
- Digital CHIRP technology
- Non-contact rotational scanning mechanism
- Easy deployment.