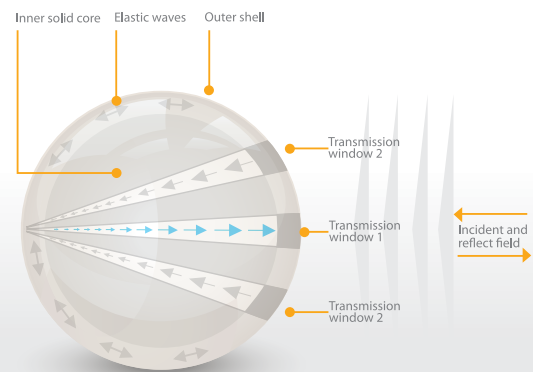


SonarBell™

Asset Location Has Never Been Easier



SonarBell™ operates by focusing and re-radiating sound energy, much as a lens or mirror can focus light and just like a lens or mirror, SonarBell™ is a completely passive device.

By focusing and re-radiating the sound energy back in the direction from whence it came, a 200mm SonarBell™ can deliver the same sonar target strength as a 2m diameter metal sphere whilst being relatively light weight and easy to handle and attach.

However, unlike other technologies used for asset location SonarBell™ does not suffer from the “now you see it, now you don’t” of corner reflectors nor does it require the battery replacement cycle of transponders.



SonarBell™ The Facts

- ➔ Technology developed by UK MOD and licensed to SALT Ltd
- ➔ Omni-directional, calibrated device
- ➔ Completely passive, low non-acoustic signature
- ➔ Single, Multiple or Broadband optimised sonar response
- ➔ Visible at up to 2km dependant on frequency, size and sonar power
- ➔ Anti-fouling can be applied
- ➔ Easily deployed and recovered
- ➔ Available in a growing range of sizes from 50 to 200mm

➔ Applying SonarBell™ to deliver real world benefit

SonarBell™ offers a truly unique commercial and military proposition to its users. Its combination of high sonar target strength, environmentally friendly materials and low cost of ownership provide for effective passive location at minimal cost.

Wide Ranging Sonar Compatibility

With all types of Sonar from highly sophisticated hull mounted sonar designed for mine-hunting and side-scan devices at one end of the scale to fish-finders and echo-sounders at the other. It works equally well with AUV/UUV and hand-held sonar for work done at close ranges.

Wide Range of Military and Security Applications

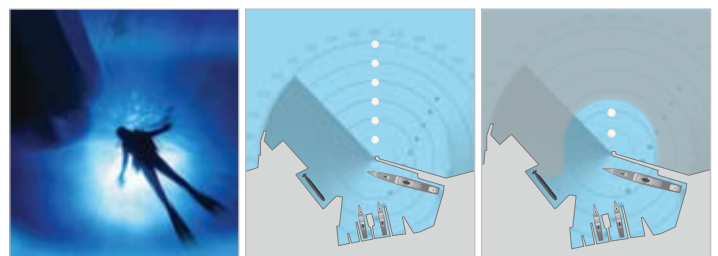
The breadth of these applications is already substantial and continues to grow as SALT undertakes bespoke development and capability demonstration work.

➔ Mine Marking

SonarBell™ is a totally passive device with a very low non-acoustic signature. As such it provides an ideal device for marking mines or other objects for subsequent analysis or destruction.

➔ Swimmer Detection

Knowing the effective range of a swimmer detection sonar is vital if interception teams are to be brought to the appropriate state of readiness for the prevailing conditions thereby allowing you to reduce unnecessary fatigue. Having SonarBell's in the water as range markers can provide the difference between knowing you have enough warning to arrange swimmer interception and hoping you have.



➔ Examples of Commercial Applicability of SonarBell™

- ➔ Passive towed-array seismic streamer monitoring
- ➔ ROV/AUV monitoring and pilot orientation
- ➔ Hydrographic, oceanographic survey
- ➔ Marine hazard marking
- ➔ Pipe and cable marking and many, many others....