



SONAR SURROUND

Underwater-Recording-Solutions

Sonar Surround Directivity Sphere

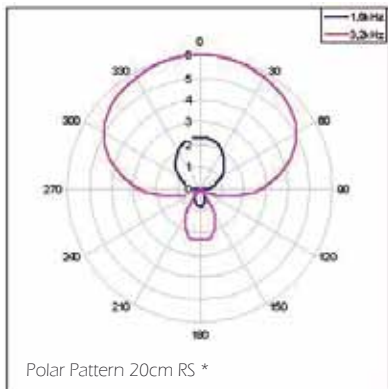
Maritime life fills the underwater world with countless interesting sounds.

Due to the particular acoustic characteristics of that medium, it has been impossible to make high quality multi channel recordings under water - until now.

After two years of research Sonar Surround has succeeded in developing a new awarded and patented technique to give omnidirectional hydrophones a polar pattern close to a supercardioid. Thus audio engineers now have the possibility to utilize approved recording techniques even underwater.



Sound characteristics:



Polar Pattern 20cm RS *



Polar Pattern 30cm RS *

Being close to the human head shape spherical microphones are known for their natural, "humanly" sound perception especially pronounced with multichannel arrays.

By directing the hydrophone in a mainly additive way most interferences can be avoided.

Standard sizes of the Sonar Surround RS are carefully selected to offer a directivity unprecetented with hydrophones and a natural sound stage with harmonic sound even from the off-axis. However it would be possible to realize directivity corner frequencies as low as 100 Hz with customizing the diameter of the spheres.

The Directivity Spheres are manufactured with special **PE-HD** material which can withstand a water depth of at least 1000m without altering its acoustic behaviour. The complete fabrication process has been tested and certified by the accredited GL (Germanischer Lloyd) to ensure reliability.

A modular design allows the use with most common hydrophones. However, for best recording results special hydrophones engineered in cooperation with the global market leader Reson are available through Ambient Recording.

* measured with airborne sound; calculated for 1500m/s sound velocity

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