



*Sensing Technology*

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**AIRMAR TRANSDUCERS NOW OFFER BROADBAND TECHNOLOGY  
TO IMPROVE 200kHz FISHFINDER PERFORMANCE AND TARGET SEPARATION**

**Breakthrough Will Usher In New Generation of “Tunable” Echo Sounders**

Airmar Technology Corporation has introduced the industry’s most affordable Broadband Transducers, engineered to deliver superior echosounder performance today and unlock potential fishfinder features of the near future.

Through extensive acoustics research and refinement of its proprietary manufacturing processes, Airmar has increased the transducer bandwidth (frequency range) without sacrificing acoustic sensitivity. This innovation – Broadband – results in faster rise times and faster fall times which generate a distinctly crisp acoustic pulse. With this technology, transducer ringing is diminished.

A fishfinder using one of the new Airmar Broadband transducers will be able to display a school of fish as closely spaced, individual fish, rather than a blurry, cluttered image. The crisp pulses allow for superior detection of fish suspended very close to the sea floor. When used for navigation purposes, Broadband Transducers also do a better job of imaging the bottom at all depths, especially very shallow water.

Broadband performance can now be found in the 200kHz element of four popular Airmar dual-frequency transducer models. For those that need 2kW performance, Airmar offers the R199 In-hull and the R99 External mount with Broadband. Broadband Technology can also be found on 1kW B260 Thru-hull and M260 In-hull models. These transducers will work with – and improve the performance of – a wide range of echosounder models from top manufacturers like Furuno, Simrad, Raymarine and others.

“Broadband Technology has the potential to change the way fishfinders are designed and unlock new levels of performance in the future,” said Mark Reedenauer, Product Marketing Manager for Airmar. “Because these transducers have a bandwidth that covers a continuous frequency spectrum, future fishfinders can be made ‘tunable’ so fishermen can ‘dial in’ the best frequency for the target fish species or conditions,” added Reedenauer.

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For example, a 1kW RMS rated, 200 kHz Broadband Transducer with a 65mm diameter piezoceramic element can operate anywhere between 150kHz and 280kHz. This allows a range of custom performance possibilities. Tuning a higher frequency will increase the target resolution of small fish, and the narrower beam will reduce side lobes in areas with fast-changing water depths. Lowering the frequency results in a wider beam and better deep-water performance. Many other possibilities exist.

Currently, the Broadband Technology feature only applies to the 200kHz element of these popular dual-frequency transducers. Airmar engineers are working on bringing Broadband characteristics to lower frequencies such as 50kHz in the not so distant future.

For more information about Broadband Transducer technology, visit your qualified electronics dealer or contact Airmar Technology Corporation at 35 Meadowbrook Drive, Milford, NH 03055.

Telephone: 603.673.9570. Boaters can also visit the company's website at [www.airmar.com](http://www.airmar.com).

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High Resolution image available- email [strikezne@earthlink.net](mailto:strikezne@earthlink.net)

