

CHIRP-ready Broadband Transducer



The M563 is AIRMAR's dual-band CHIRP-ready broadband transducer designed for research and survey applications. The M563 is developed for OEMs with frequency agile sounders or CHIRP-capable sounders for use in shallow and coastal survey applications.

The acoustic performance of AIRMAR's broadband piezoceramic transducers include low-ringing and sensitivity, according to the manufacturer, resulting in optimal system performance including sharp, crisp acoustic pulses for improved clarity, resolution and measurement accuracy. The M563's two broadband arrays have low and high-frequency bands allowing operation at discrete frequencies, broadband CHIRP or coded waveforms.

The unit is available with a low-band frequency range of 25kHz to 45kHz and high-band options of either 80kHz to 130kHz, 130kHz, 130kHz to 210kHz, or 160kHz to 260kHz.

The M563 transducer's construction coupled with features such as Transducer ID and a temperature probe provide customers with **additional value**. AIRMAR's Transducer ID technology allows the M563 to provide data to the echo sounder including transducer model, functions, frequency, power rating, beam pattern, impedance, and more. With this technology, the echo sounder can configure itself to the transducer to optimise performance. The result is superior detection of targets, bottom composition, and contour over a wide range of conditions. Transducer ID also offers OEMs self-diagnostic, troubleshooting and feedback capabilities.

The unit includes a temperature probe that provides accurate temperature readings that can quickly detect small fluctuations in sea temperature.

<https://www.hydro-international.com/content/news/chirp-ready-broadband-transducer>
