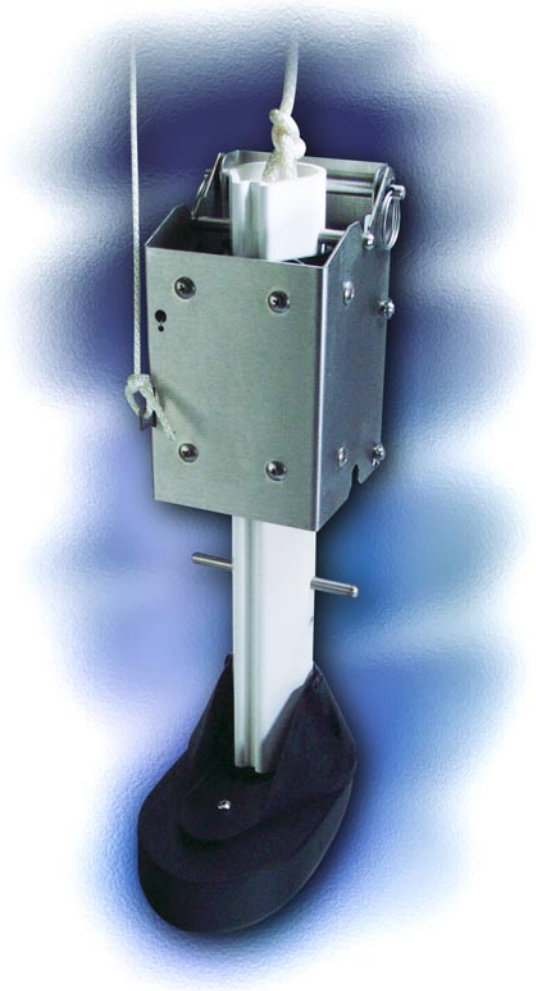
AIRMAR®
TECHNOLOGY CORPORATION

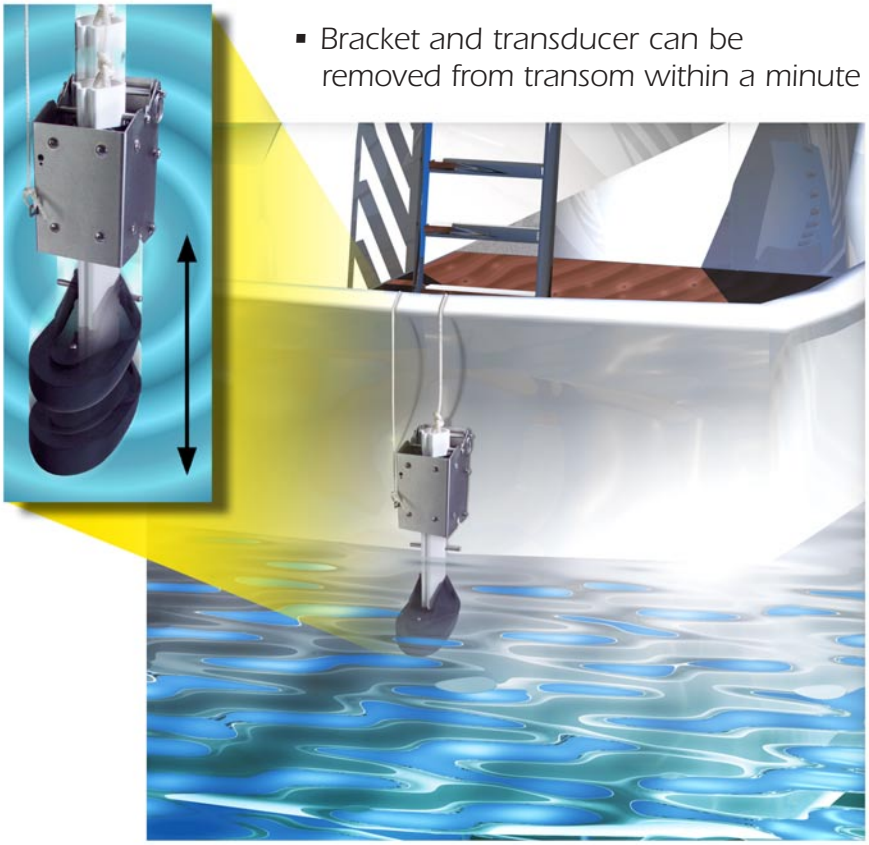


TM260

Transom Mount Transducer

1kW Dual-Frequency 50kHz & 200kHz

- Highest performance ever in a transom mount transducer
- Independent 50kHz and 200kHz elements form narrow beams for superior deep water fish detection
- Very low ringing for accurate discrimination between closely spaced fish targets
- Transducer is internally shielded to suppress EMI/RFI interference
- Fast response temperature sensor provides +/- 0.2° C accuracy



- Bracket and transducer can be removed from transom within a minute

Unique mounting bracket offers two operating positions:

- Lowered position operates at all speeds and has impact release feature
- Raised position provides no drag at planing speeds, yet provides excellent fishfinding at low speeds

Connector compatible with all brands of 50/200kHz, 500W, 600W and 1kW echosounders:

- Furuno
- Garmin
- JRC
- Koden
- Lowrance
- Northstar
- Raymarine
- Simrad
- Sitex

Tel: 603.673.9570 ▪ **Fax**: 603.673.4624 ▪ sales@airmar.com ▪ **www.airmar.com**

50kHz & 200kHz Transducer with Diplexer

A quantum improvement in dual-frequency echosounder performance

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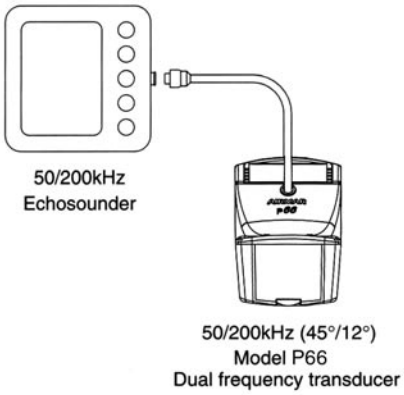
The performance of 300W and 500W fishfinders is limited by the size of the single 44mm (1.7") diameter piezoceramic element in the transducer. While the single element is an excellent performer for its size and cost, better performance can be obtained by substituting a transducer with an array of seven dedicated 50 kHz elements and a single, large diameter 200 kHz element.

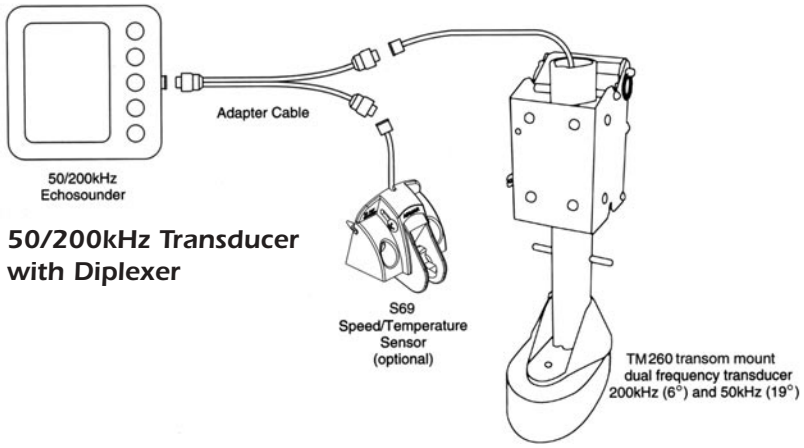
The TM260 is available with a diplexer mounted inside the housing. It splits the 50 kHz and 200 kHz frequencies that are transmitted over a single line. This enables the use of dedicated 50 kHz and 200 kHz elements in the transducer.



Single Element Transducer

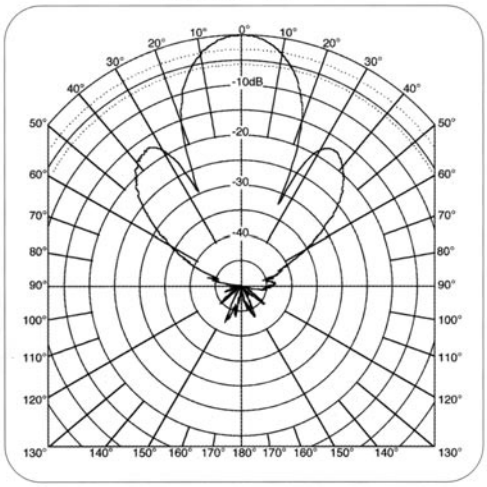
With the TM260:

- Beam widths are narrower, concentrating energy for better target detection and bottom detail.
- Figure of merit is 17 dB higher at 50 kHz which is equivalent to 50 times the sensitivity of a single element transducer. This results in greatly improved fish and bottom detection in deep water.
- The Q at both 50 kHz and 200 kHz is dramatically reduced, which means much lower ringing and better discrimination between closely spaced fish and between fish and bottom.

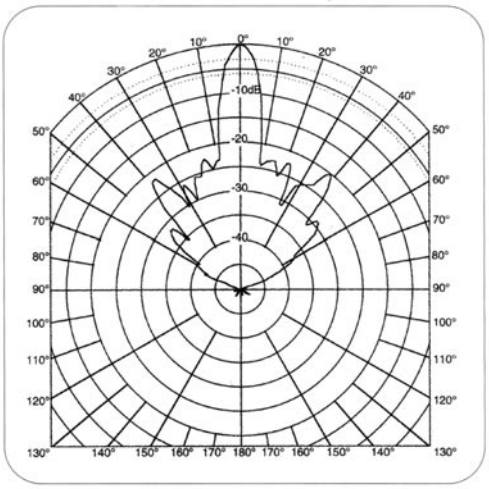


50/200kHz Transducer with Diplexer

50 kHz – AE



200 kHz – Rlq



Performance Comparison

The table below compares the performance of a single element transducer to three versions of the TM260

	Frequency	Beamwidth	Impedance (ohms)	TVR	RVR	FOM	Q
Standard Single Element	50kHz	45 Deg.	190	155dB	-174dB	-31dB	28
	200kHz	12 Deg.	410	164dB	-184dB	-21dB	31
TM260*	50kHz	19 Deg.	70	168dB	-176dB	-14dB	8
	200kHz	6 Deg.	70	175dB	-186dB	-11dB	10
TM260	50kHz	19 Deg.	250	162dB	-173dB	-14dB	8
	200kHz	6 Deg.	335	169dB	-186dB	-16dB	10
TM260 with Diplexer	50kHz	19 Deg.	250	162dB	-173dB	-14dB	8
	200kHz	6 Deg.	335	169dB	-186dB	-16dB	10

* with Transformer