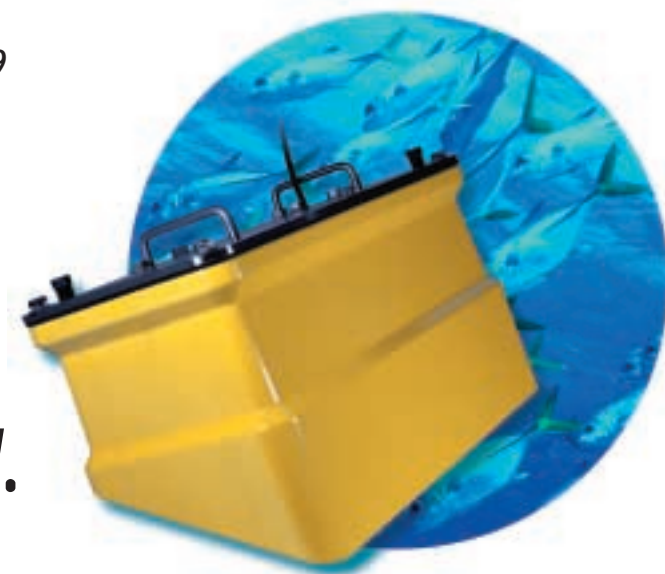


R199

Furuno model
#CA50/200-R199

Dual Frequency 50kHz & 200kHz
2kW In-Hull Transducer

Performance that will have you *reeling*.



■ *Serious About Catching Fish?*

Maximize the performance of Furuno's FCV1100, FCV1200 and BBFF3 echosounders with Airmar's top-of-the-line in-hull, the R199. This professional-quality transducer can match the fishfinding capability of *any* externally mounted transducer in the professional/commercial market!

■ *"No holes" barred, all-out fishfinding performance!*

Since the R199 can "shoot through the hull", it delivers outstanding performance with all the advantages of an in-hull design—no hole in the boat or cavitation to the propeller. And because it's an in-hull, the R199 will read clearly at high speeds, as flow turbulence noise isn't an issue. At 30 plus knots, this transducer holds the bottom.

■ *Spend more time fishing, less time "finding"!*

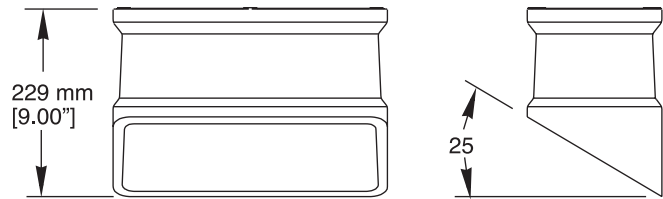
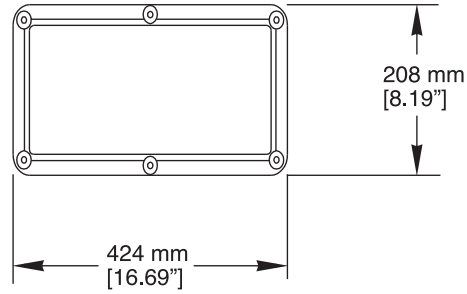
The R199 packs an 88mm (3.5") ceramic at 200kHz, and fifteen dedicated elements operating at 50kHz. Like its externally mounted cousin, the R99, this in-hull is *so precise*, fish are no longer camouflaged by their surroundings.

- The top in-hull performer in Airmar's professional line of fishfinder transducers for vessels 30' and up
- Super low ringing for accurate discrimination between closely spaced targets
- All mounting hardware provided, including tank
- Easy to install
- Can be externally mounted in a conventional steel tank



R199 vs. M260:

- Beam widths are narrower, concentrating energy for better target detection and bottom detail.
- Figure of merit is 6 dB higher at 50 kHz and 200kHz, as compared to the M260. This is equivalent to 4 times the sensitivity at each frequency.
- The Q at both 50 kHz and 200 kHz is significantly reduced, which means even much lower ringing and even better discrimination between closely spaced fish and between fish and bottom.



Performance Comparison

The table below compares the performance of a standard single element, the four element M256, the seven element M260 and the R199

	Frequency	Beamwidth	Impedance (ohms)	TVR	RVR	FOM	Q	
Standard Single Element	600W	50kHz	45°	190	155dB	-174dB	-31dB	28
		200kHz	12°	410	164dB	-184dB	-21dB	31
M256	1kW	50kHz	14° x 23°	200	161dB	-168dB	-19dB	27
		200kHz	3° x 5°	370	170dB	-178dB	-9dB	30
M260	1kW	50kHz	19°	250	162dB	-173dB	-14dB	8
		200kHz	6°	335	169dB	-186dB	-16dB	10
R199	2kW	50kHz	9° x 17°	225	167dB	-174dB	-9dB	3
		200kHz	5°	320	173dB	-185dB	-10dB	6

Sounder Settings:

Sounder	50kHz	200kHz
FCV1100	Tap B	Tap C
FCV1200	62V	82V
BBFF3	Tap B	Tap D
FCV292	Tap B	Tap C

