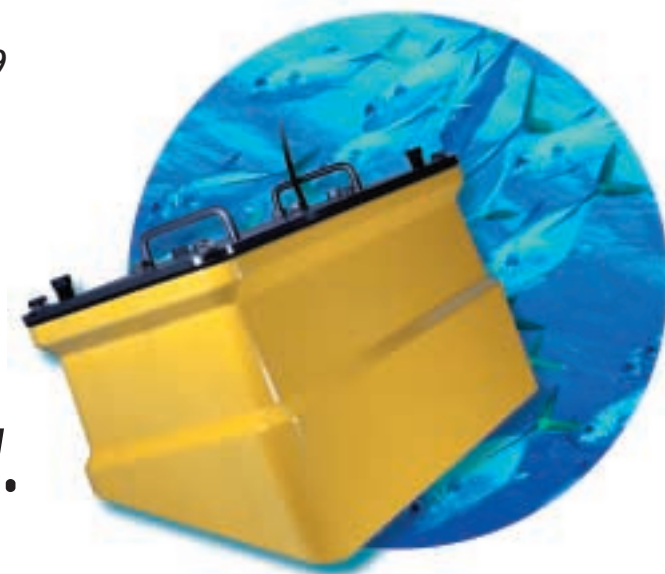


# R199

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"!*

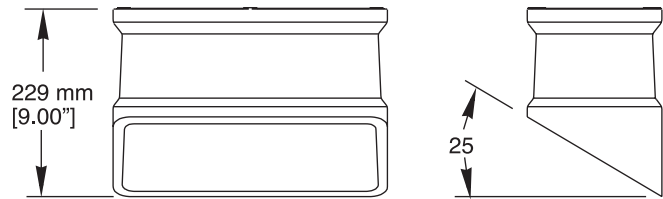
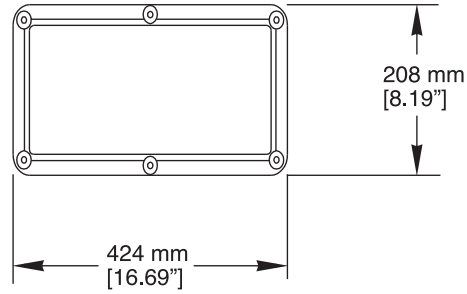
The R199 packs an 88mm (3.5") ceramic at 200kHz, and fifteen dedicated elements operating at 50kHz. Like its externally mounted cousin, the R99, this in-hull is *so precise*, fish are no longer camouflaged by their surroundings.

- 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

