

# R199

**2 kW**  
Dual-Frequency



## Performance that will have you reeling.

### Serious About Catching Fish?

Maximize the performance of any 1 kW or 2 kW echosounder with the R199 in-hull transducer. Designed with Airmar's exclusive Broadband Ceramic Technology, the 200 kHz ceramic provides excellent resolution without sacrificing sensitivity.

### Spend More Time Fishing and Less Time Finding!

The R199 packs an 88 mm (3.5") broadband ceramic at 200 kHz, and 15-elements operating at 50 kHz—just like its externally mounted cousin, the R99. This transducer is so precise that fish are no longer concealed by their surroundings!

### See Through the Hull

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 turbulence to the propeller. And because it's an in-hull, the R199 will read clearly at high speeds. Flow noise isn't an issue. At 30 plus knots (34 plus MPH), this transducer tracks the bottom.

- A top in-hull performer in Airmar's professional line of fishfinder transducers for vessels 9 m (30') and up
- Super low ringing for accurate discrimination between closely spaced targets
- Recommended for solid fiberglass hulls
- Available with a diplexer for single-transmission-line fishfinders and without a diplexer for dual-transmission-line fishfinders
- Can be externally mounted in a conventional steel tank
- Non-toxic anti-freeze (propylene glycol) is used to fill the tank
- Marine-Tex® epoxy is used to adhere tank to the hull





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## Technical Information

### Specifications

Frequencies	Number of Elements and Configuration	Beam Width (@-3dB)	Rated RMS Power (W)	TVR*	RVR*
50 kHz-AFlq		8° x 17°	2 kW	167dB	-174dB
200 kHz-BFlq		5°	2 kW	177dB	-182dB

Weight: ..... 19.7 kg (43.4 lb)

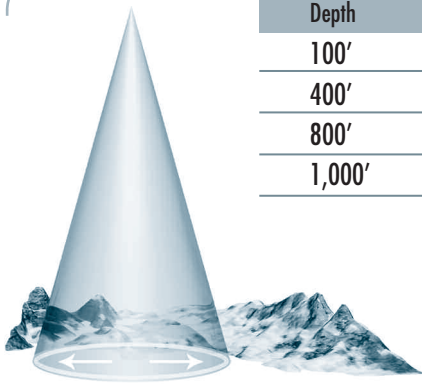
Hull Deadrise Angle: ..... 0° to 25°

All mounting hardware provided, including tank

	50 kHz	200 kHz
FOM*	-9	-6
Q	3	2

\*does not calculate losses through the hull.

### Viewable Diameter Based on Depth



Depth	50 kHz	200 kHz
100'	14' x 30'	9'
400'	56' x 120'	35'
800'	112' x 240'	70'
1,000'	140' x 300'	88'

### Comparison Chart

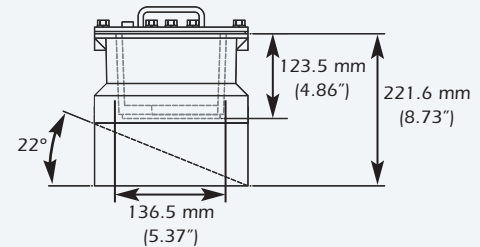
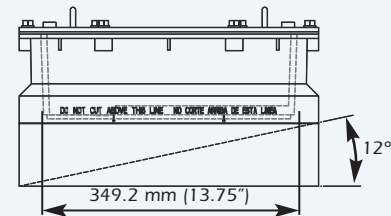
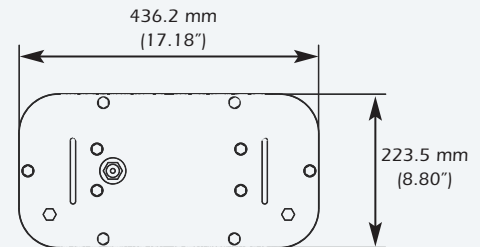


The chart compares a dual-frequency single-element 600 W transducer to the higher performance transducer models.

Model	Power	Rating	Performance Increase
P79	600 W	Good	Benchmark model for comparison
M260	1 kW	Best	50 times more sensitive at 50 kHz 13 times more sensitive at 200 kHz
R199	2 kW	Superb	200 times more sensitive at 50 kHz 32 times more sensitive at 200 kHz
R299	3 kW	Superb	400 times more sensitive at 50 kHz 32 times more sensitive at 200 kHz

### R199 Dimensions

R199 transducer



### Performance



	50 kHz	200 kHz
Maximum	735 m to 1,176 m	235 m to 353 m
Depth Range	(2,500' to 4,000')	(800' to 1,200')

### Options



- External speed/temperature sensor

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As Airmar constantly improves its products, all specifications are subject to change without notice. All Airmar products are designed to provide high levels of accuracy and reliability; however, they should only be used as aids to navigation and not as a replacement for traditional navigation aids and techniques.

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