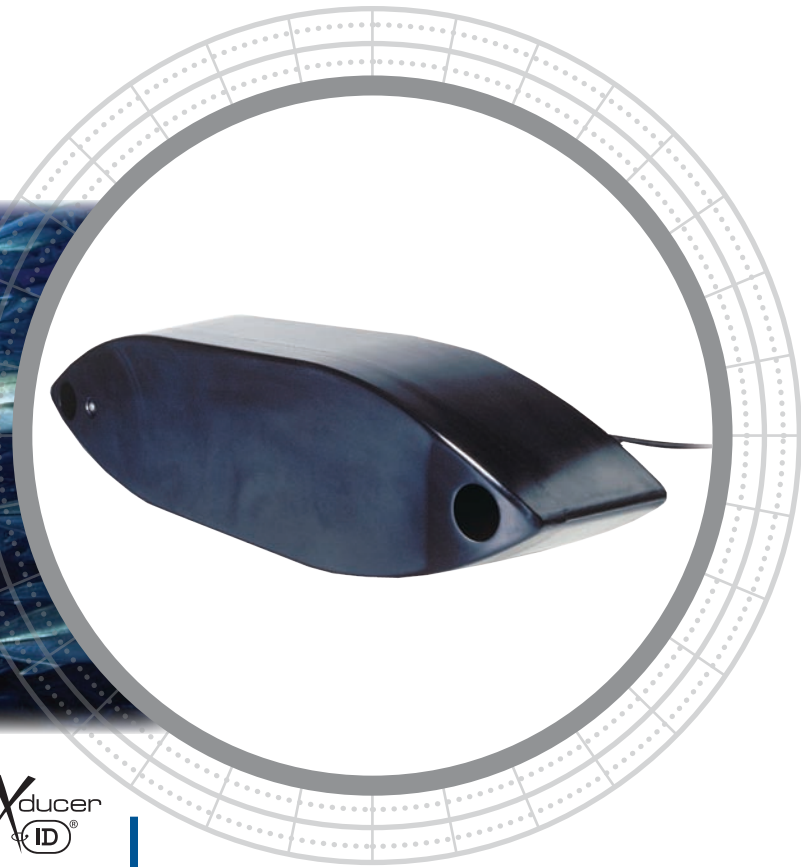


# R209



## Meet the Biggest and Baddest!

Want to increase your catch? Want to detect ground fish holding tight to the bottom in deep-water? Want to mark bait fish as closely-spaced individual fish? Then Airmar's R209 is the answer.

## Frequency Agility

Airmar's high-performance R209 can operate at ANY frequency between **33 kHz to 60 kHz** and **130 kHz to 210 kHz**. Adjusting the frequency allows you to change the R209's beamwidth and depth capabilities. For example, if you are bottom fishing in 61 m (200') of water, the narrow high-frequency beam will display extreme bottom detail and fish holding tight to structure. If you are tuna or marlin fishing in deep blue water, the wider low-frequency beam will not only give deep-water bottom detail, but more importantly show you more of what is around your vessel—including bait which may attract game fish. With the R209, you choose the frequency for your fishing.

## Thru-Hull External-Mount 2 - 3 kW

### Fishing Applications

- Offshore and long-range blue-water fishing
- Commercial fishing
- Deep-water canyon and sea-mount tracking

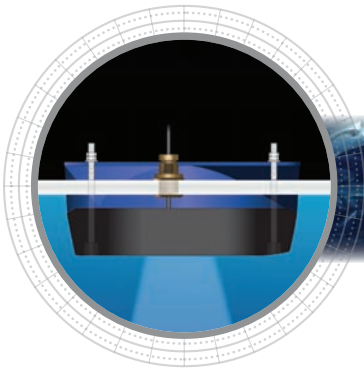
### Features

- The top performer in Airmar's professional line of fishfinder transducers
- Only 3 kW thru-hull transducer on the market that can operate at either 38 kHz or 50 kHz
- Recommended for commercial and sportfishing boats above 12 m (40')
- Depth and fast-response water-temperature sensor
- Urethane housing
- Includes fairing and stainless steel stuffing tube



*Sensing Technology*

[www.airmar.com](http://www.airmar.com)



## Technical Information

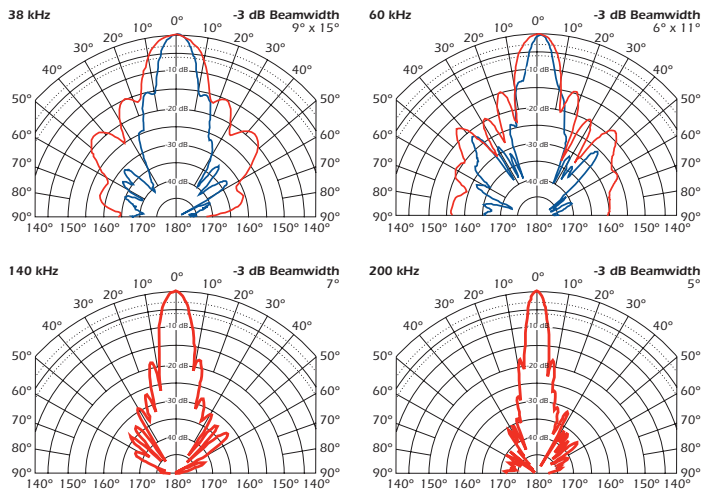
### 33-60 kHz-A / 130-210 kHz-BRIq

Number of Elements and Configuration			
Beamwidth (@ -3 dB)	Adjustable	Adjustable	
RMS Power (W)	3 kW	2 kW	
TVR	171 dB @ 50 kHz	172 dB @ 200 kHz	
RVR	-177 dB @ 50 kHz	-184 dB @ 200 kHz	
FOM	-7 dB @ 50 kHz	-12 dB @ 200 kHz	
Q	3 @ 50 kHz	3 @ 200 kHz	
Impedance	165 Ω @ 38 kHz	148 Ω @ 50 kHz	208 Ω @ 200 kHz
	169 Ω @ 140 kHz	250 Ω @ 50 kHz	314 Ω @ 200 kHz

### MAXIMUM DEPTH RANGE

Low-Frequency	High-Frequency
914 m to 1,372 m (3,000' to 4,500')	235 m to 353 m (800' to 1,200')

### Directivity Pattern



### SPECIFICATIONS

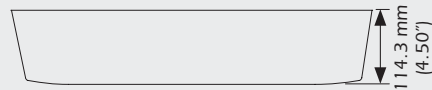
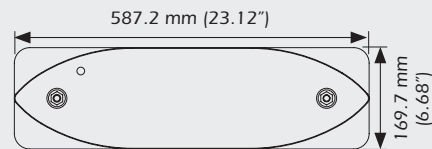
**Weight:** 20.8 kg (46 lb)

**Hull Deadrise:** 0° to 25°

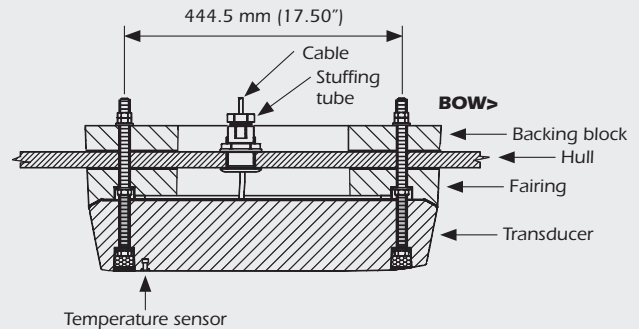
**Acoustic Window:** Epoxy/urethane

### DIMENSIONS

#### Transducer



#### Installing the Transducer



### Figure of Merit

The graphs show that the R209 can run optimally at a wide range of frequencies.

