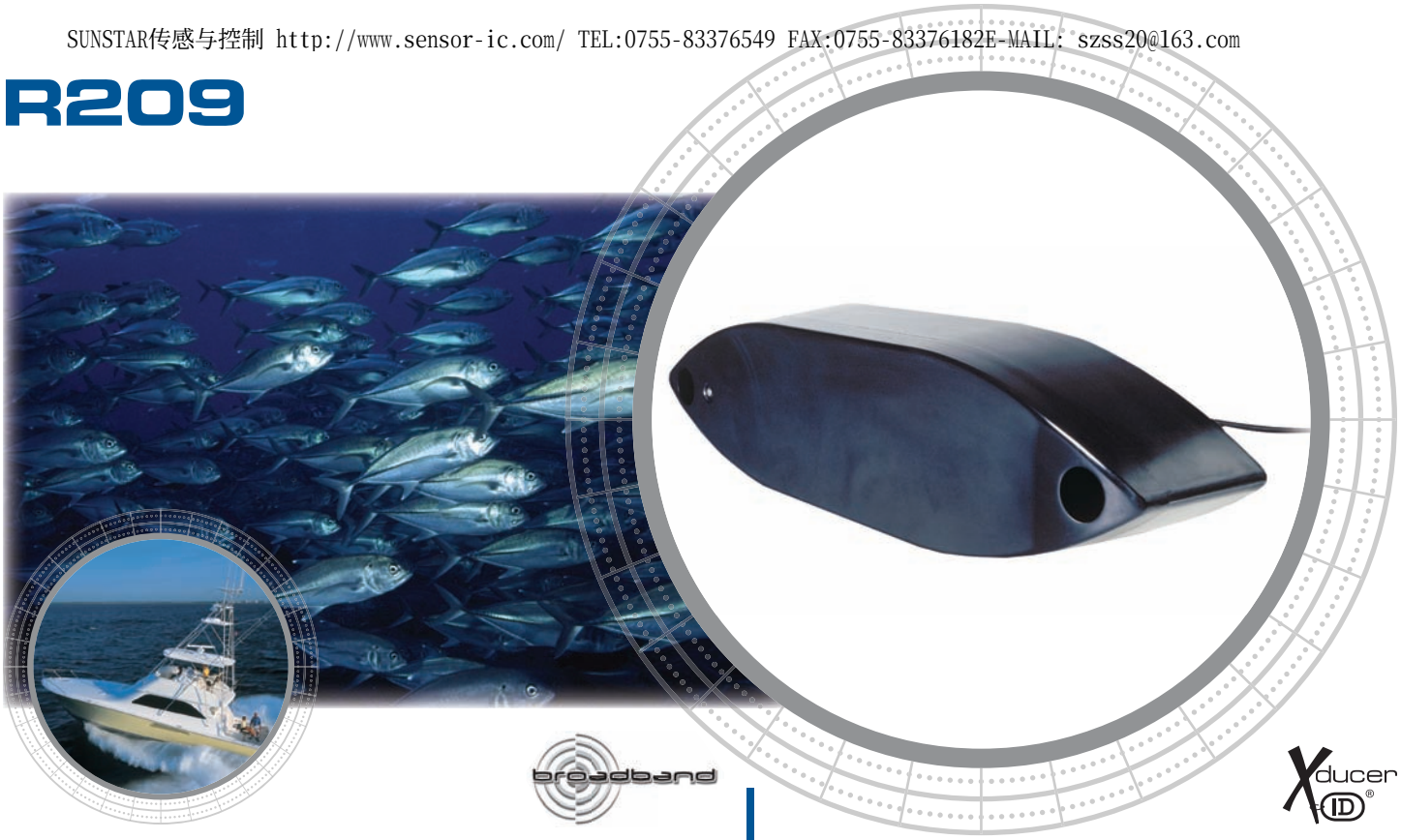
R209



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 Broadband 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.*

2 kW to 3 kW High-Definition Digital Broadband

Thru-Hull, External-Mount Transducer

Fishing Applications

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

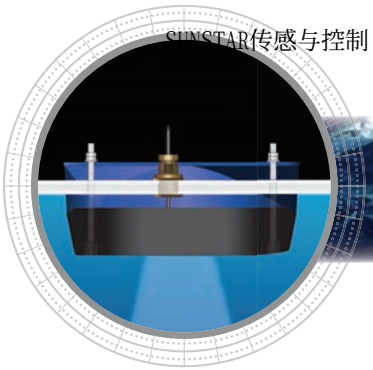
Features

- 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
- New urethane housing
- Includes fairing and stainless steel stuffing tube

AIRMAR® TECHNOLOGY CORPORATION

Sensing Technology

www.airmar.com



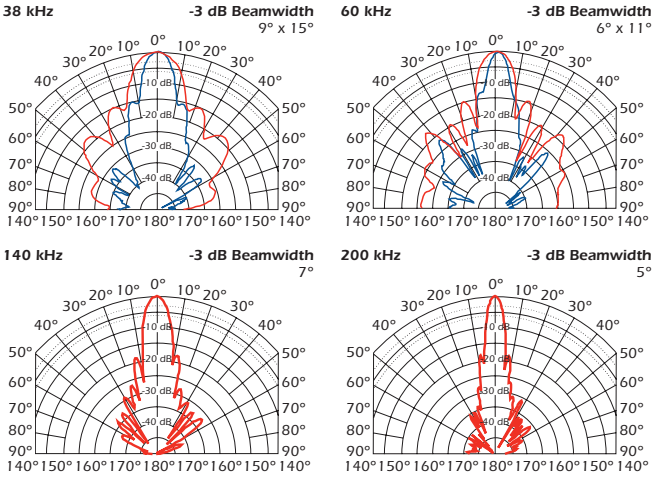
R209

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 @ 50 kHz	-12 @ 200 kHz
Q		3 @ 50 kHz	3 @ 200 kHz
Impedance	165 Ω @ 38 kHz	148 Ω @ 50 kHz	208 Ω @ 60 kHz
	169 Ω @ 140 kHz	250 Ω @ 160 kHz	314 Ω @ 200 kHz

MAXIMUM DEPTH RANGE	
Low-Frequency	**High-Frequency**
914 m to 1,372 m	235 m to 353 m
(3,000′ to 4,500′)	(800′ to 1,200′)

Directivity Patterns



SPECIFICATIONS

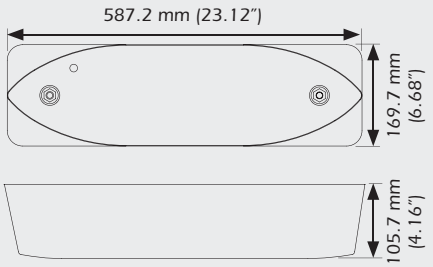
Weight: 20.8 kg (46 lb)

Hull Deadrise: 0° to 25°

Acoustic Window: Epoxy/urethane

DIMENSIONS

Transducer



Installing the Transducer

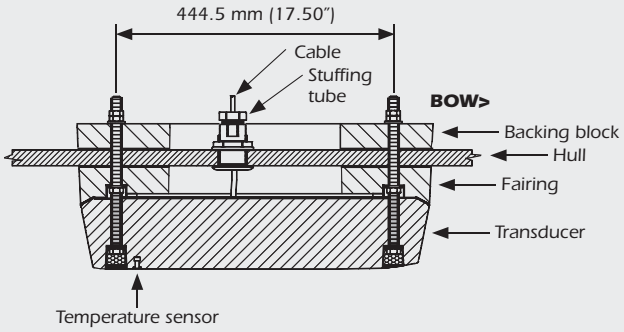


Figure of Merit

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