



# Professional Series External-Mount

## R309

The Broadband R309 is different than the R209. It operates at ANY frequency between 25 to 45 kHz and 130 to 210 kHz. Adjusting the frequency allows you to change the R309's beamwidth and depth capabilities. For example the narrow high-frequency beam will display extreme bottom detail and fish holding tight to structure. The wider, low-frequency beam will not only give you deep-water bottom detail, but more importantly show you more of what is around your vessel—including bait which may attract game fish.

### Features:

- 400 times more sensitive at 50 kHz and 32 times more sensitive at 200 kHz than our 50/200 kHz dual-frequency, single-element thru-hull and 4 times more sensitive than our high-performance SS260 thru-hull transducer
- Includes fast-response temperature sensor
- Fifteen dedicated 50 kHz elements provide superior deep-water fishfinding and clearly detailed bottom contour and structure images
- A high-performance fairing is included to vertically orient sound beams for stronger return echoes resulting in optimal sounder performance

### Performance:

	25/45 kHz-A	130/210 kHz-BRLq		
Target Resolution	Superb	Superb		
Bottom Definition	Superb	Superb		
Maximum Depth Range	1,000m to 1,500m (3,300' to 5,000')	235 m to 353 m (800' to 1,200')		



Hull material:  
Fiberglass

Frequencies:	Beam Width: (@-3dB)	Rated RMS Power: (W)	Figure of Merit: (dB)	Q:
25/45 kHz-A	See*	3 kW	-5	3
130/210 kHz-BRLq	See*	2 kW	-12	2
Acoustic Window:	Epoxy			
Weight:	23.8 kg (52.4 lb)			
Hull Deadrise Angle:	0° to 25°			
*28 kHz	11° x 17°			
*38 kHz	9° x 15°			
*45 kHz	7° x 13°			
*140 kHz	7°			
*170 kHz	6°			
*200 kHz	5°			

Also see:

R99, R209, B258, B260/SS260



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### Applications:

- Mid-sized to large sport fishing boats
- Small to mid-sized commercial fishing boats

### Notes:

- Easy installation with supplied rods, hardware and high-performance fairing
- Can be mounted as an in-hull in fiberglass hulls for precise echosounding—even at speeds over 30 knots (34 MPH)
- A bronze stuffing tube is included to form a watertight channel for cable routing
- Streamlined shape minimizes drag
- Internal diplexer allows use with single-transmission line sounders

### Options:



- Impedance to customer specifications using matching transformer
- Non-diplexer version for dual-transmission line sounders

### Parts & Accessories:



Fairing & Stuffing Tube:  
33-439-01 rev01

