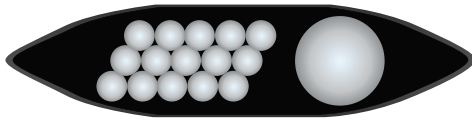


Thru-Hull 2 kW

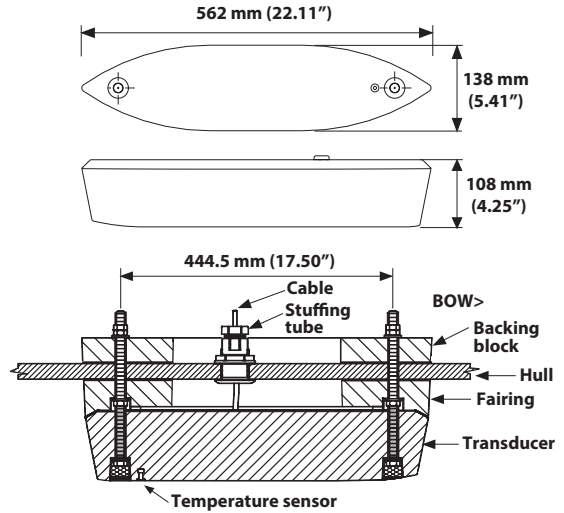


Features:

- Depth & fast-response water-temperature sensor
- Urethane transducer housing with High-Performance Fairing
- Boat Size: 12 m (40') and above
- Hull Type: Fiberglass, wood, or metal
- Engine Type: Inboard, Outboard or I/O
- For use on hulls up to 22° deadrise



16-Internal
Broadband Ceramic
Assemblies



R109LH

Low & High Frequency

- Low-38 kHz to 75 kHz
19° to 10° port/starboard
10° to 5° fore-aft beam
Max. depth 6000 ft
- High-130 kHz to 210 kHz
8° to 4° beam
Max. depth 1500 ft
- 117 kHz of total bandwidth from one transducer

R109LM

Low & Medium Frequency

- Low-38 kHz to 75 kHz
19° to 10° port/starboard
10° to 5° fore-aft beam
Max. depth 6000 ft
- Medium-80 kHz to 130 kHz
13° to 8° beam
Max. depth 3000 ft
- 87 kHz of total bandwidth from one transducer

R109LHW

Low & High Wide Frequency

- Low-38 kHz to 75 kHz
19° to 10° port/starboard
10° to 5° fore-aft beam
Max. depth 6000 ft
- High-150 kHz to 250 kHz
25° constant beam
Max. depth 500 ft
- 137 kHz of total bandwidth from one transducer

ULTRA
WIDE

R409LWM

Low & Medium Frequency

- Low-40 kHz to 60 kHz
40° constant beamwidth
Max. depth 4000 ft
- Medium-80 kHz to 130 kHz
13° to 8° beam
Max. depth 3000 ft
- 70 kHz of total bandwidth from one transducer

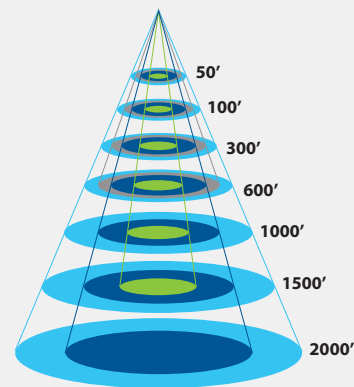
Bottom Coverage

Relative to Frequency and Depth

Depth	Beam Coverage at High Frequency			
	R109LH 130 kHz- 210 kHz	R109LM 80 kHz- 130 kHz	R109LHW 150 kHz- 250 kHz	R409LWM 40 kHz- 60 kHz
50 ft	6 ft	10 ft	22 ft	36 ft
100 ft	14 ft	24 ft	46 ft	73 ft
300 ft	42 ft	70 ft	134 ft	220 ft
600 ft	84 ft	136 ft	266 ft	440 ft
1000 ft	140 ft	226 ft	Too Deep	730 ft
1500 ft	210 ft	340 ft	Too Deep	1092 ft
2000 ft	Too Deep	456 ft	Too Deep	1456 ft

This chart compares the high and medium ceramic elements inside the transducer, showing the difference in bottom coverage under the boat.

Low frequency in each of these transducers models is the same (38-75 kHz) except the R409LWM. This low frequency can range to 6,000 ft.



- R109LH – High Frequency
130 kHz-210 kHz
- R109LM – Medium Frequency
80 kHz-130 kHz
- R109LHW – Wide beam Frequency
150 kHz-250 kHz
- R409LWM – Ultra Wide Frequency
40 kHz-60 kHz