

TM275LHW screenshot courtesy of Raymarine

Transom Mount Chirp Transducers

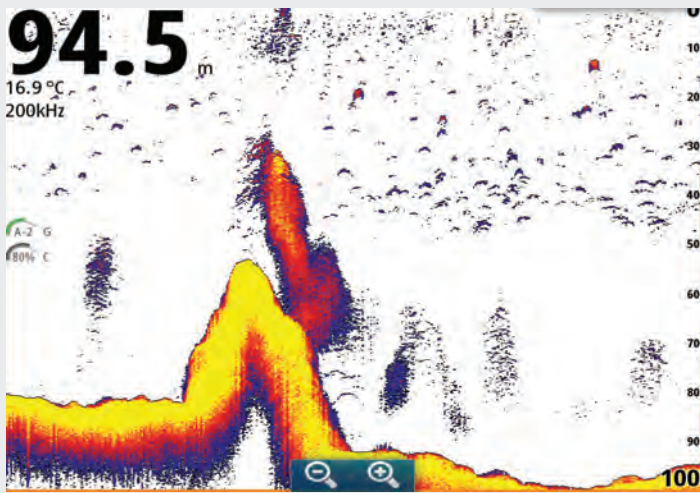
As Chirp technology remains at the forefront of echo sounder development, AIRMAR continues to add transducers for every installation type.

When performance matters most, we've got you covered.

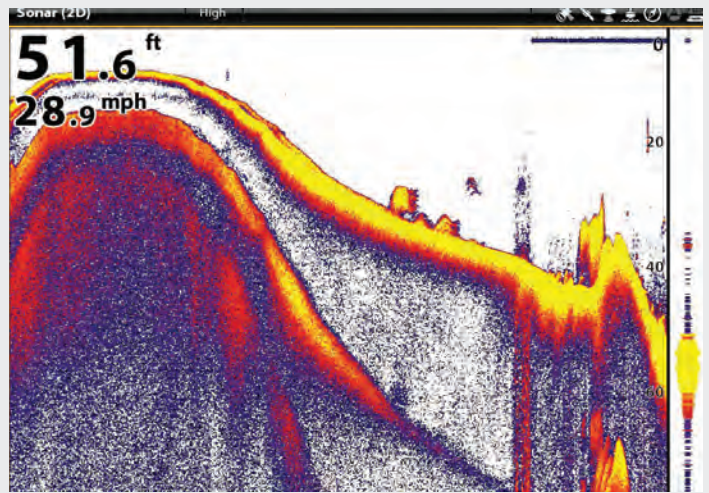
The Benefits of AIRMAR's Chirp-ready Transducers

- One broadband transducer covers up to 117 kHz of bandwidth – greater opportunities to detect fish in the water column
- Superior resolution – precise separation between baitfish and gamefish represented on the display with crisp images
- Enhanced bottom fishing – resolve targets close to the bottom or near structure/wrecks
- Amazing detail – recognize haloclines and thermoclines
- Improved signal to noise ratio – find fish and track bottom at high boat speeds





Courtesy of Navico



Courtesy of Humminbird



Benefits of Transom Mount Transducers

Transom models are best suited for small and trailered vessels where a thru-hull installation is not practical. They are not for use on stepped hull boats or with inboard power.

- Simple to install and ideal for small trailered vessels where a thru-hull may interfere with loading
- No holes in the hull
- Great performance at boat speeds below 30 knots
- Easy maintenance and low-cost replacement

The best fishing stories begin with the right transducer.

Why does frequency matter?

Selecting the best frequency for your specific application is very important. The good news is that once you know what frequency will work best for the type of fishing you do, there's an AIRMAR transducer designed to maximize the performance of your sounder.

AIRMAR Chirp transducers are available in various frequency combinations:

- Dual Band:
 - Low/High (LH)
 - Low/Medium (LM)
 - Low/High Wide (LHW)
 - Low Wide/Medium (LWM)
- Single Band:
 - Low
 - Medium
 - High
 - High Wide

Low Frequency = Greater Depth (ex. 42-65 kHz)

- Sound waves will not present as clear a picture of the bottom on the display, but will sound down in very deep areas where high frequency sound waves cannot reach
- Provides greater depth range, wider beamwidth, and ultimately more coverage under the boat
- Chirp signal processing technology used with AIRMAR broadband, Chirp-ready transducers provides more detail at greater depths and is less susceptible to noise
- Great for operating at high boat speeds

High Frequency = Greater Detail (ex. 130-210 kHz)

- More sensitive to small targets and will send back detailed information which will display as crisp, high-resolution images on the echosounder screen
- Best for shallower water and popular with anglers fishing at depths less than 1500 feet

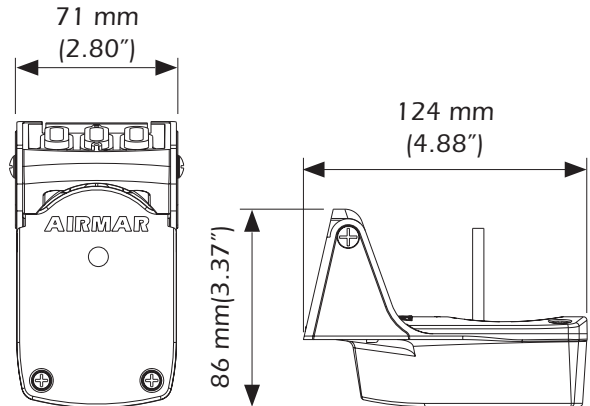
Medium Frequency = The Best of Both Worlds (ex. 80-130 kHz)

- Provides the ability to sound deeper than the high frequency, along with better resolution than the low frequency
- Wider beam than the high frequency, achieving more coverage under the boat and greater opportunity to find fish
- Clear images at higher boat speeds

Transom Mount 300 W

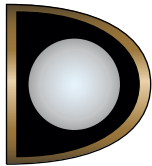


DIMENSIONS



Features:

- Depth & fast-response water-temperature sensor
- Hull Type: For displacement or planing hulls (wood, fiberglass, aluminum or steel)
- Engine Type: Single or twin I/O, OB and jet drive systems



1-Internal
Broadband Ceramic
Assembly

TM150M

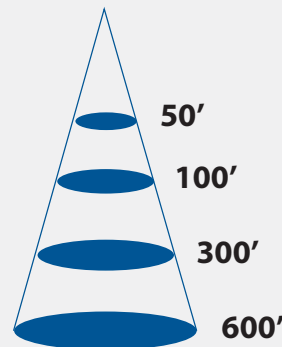
Medium Frequency

- Medium—95 kHz to 155 kHz
26° to 17° beamwidth
Maximum depth 600 ft
- 60 kHz of total bandwidth from one transducer

Bottom Coverage Relative to Frequency and Depth

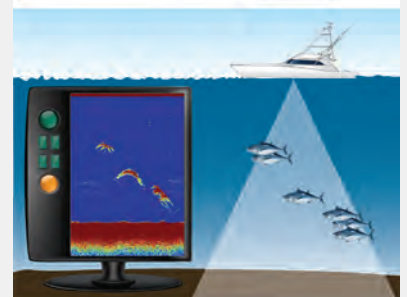
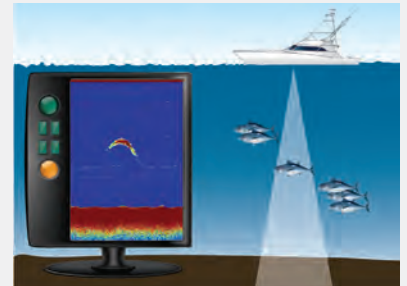
Depth	Beam Coverage at Medium Frequency	
	TM150M 95 kHz-155 kHz	
50 ft	24 ft	
100 ft	46 ft	
300 ft	138 ft	
600 ft	278 ft	
1000 ft	Too Deep	

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



TM150M – Medium Frequency
95 kHz-155 kHz

The fish must be in the beam to be represented on the display.

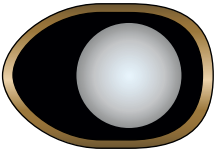


Transom Mount 1 kW



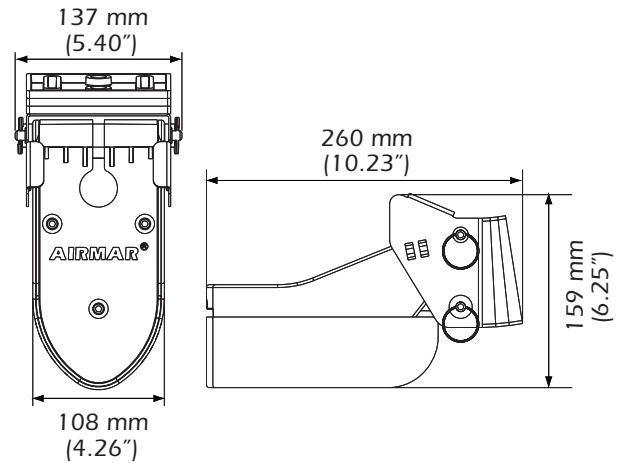
Features:

- Depth & fast-response water-temperature sensor
- Hull Type: For displacement or planing hulls (wood, fiberglass, aluminum or steel)
- Engine Type: Single or twin I/O, OB and jet drive systems



1-Internal
Broadband Ceramic
Assembly

DIMENSIONS



TM185M

Medium Frequency

- Medium—85 kHz to 135 kHz
16° to 11° beamwidth
Maximum depth 1500 ft
- 50 kHz of total bandwidth from one transducer

WIDE
BEAM

TM185HW

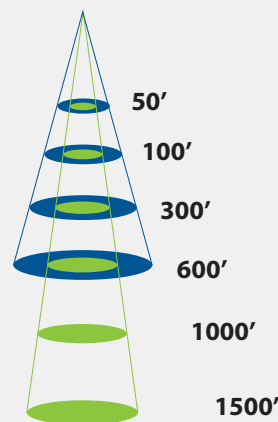
High Wide Frequency

- High—150 kHz to 250 kHz
25° constant beamwidth
Maximum depth 500 ft
- 100 kHz of total bandwidth from one transducer

Bottom Coverage Relative to Frequency and Depth

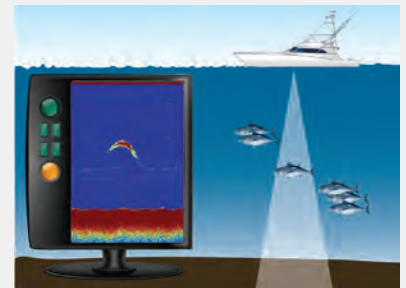
Depth	Beam Coverage at Different Frequencies	
	TM185M 85 kHz-135 kHz	TM185HW 150 kHz-250 kHz
50 ft	14 ft	22 ft
100 ft	28 ft	44 ft
300 ft	84 ft	134 ft
600 ft	168 ft	266 ft
1000 ft	282 ft	Too Deep
1500 ft	422 ft	Too Deep

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



- TM185M – Medium Frequency
85 kHz-135 kHz
- TM185HW – High Frequency
150 kHz-250 kHz

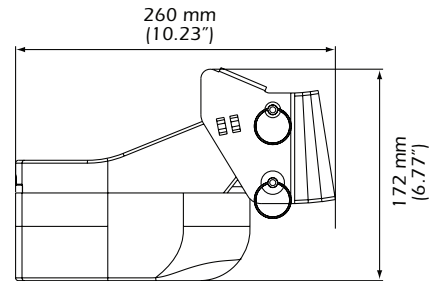
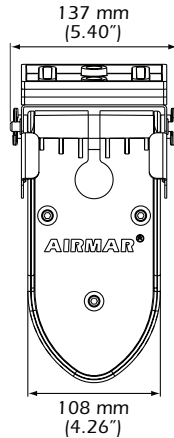
The fish must be in the beam to be represented on the display.



Transom Mount 1 kW

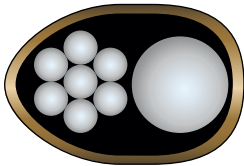


DIMENSIONS



Features:

- Depth & fast-response water-temperature sensor
- Hull Type: For displacement or planing hulls (wood, fiberglass, aluminum or steel)
- Engine Type: Single or twin I/O, OB and jet drive systems



8-Internal
Broadband Ceramic
Assemblies

TM265LH

Low & High Frequency

- Low—42 kHz to 65 kHz
25° to 16° beamwidth
Maximum depth 3000 ft
- High—130 kHz to 210 kHz
10° to 6° beamwidth
Maximum depth 1000 ft
- 103 kHz of total bandwidth from one transducer

TM265LM

Low & Medium Frequency

- Low—42 kHz to 65 kHz
25° to 16° beamwidth
Maximum depth 3000 ft
- Medium—85 kHz to 135 kHz
16° to 11° beamwidth
Maximum depth 1500 ft
- 73 kHz of total bandwidth from one transducer

WIDE BEAM

TM275LHW

Low & High Wide Frequency

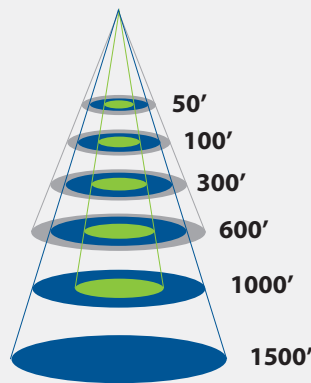
- Low—42 kHz to 65 kHz
25° to 16° beamwidth
Maximum depth 3000 ft
- High—150 kHz to 250 kHz
25° constant beamwidth
Maximum depth 500 ft
- 123 kHz of total bandwidth from one transducer

Bottom Coverage Relative to Frequency and Depth

Depth	Beam Coverage at High Frequency		
	TM265LH 130 kHz-210 kHz	TM265LM 85 kHz-135 kHz	TM275LHW 150 kHz-250 kHz
50 ft	10 ft	14 ft	22 ft
100 ft	20 ft	28 ft	44 ft
300 ft	58 ft	84 ft	134 ft
600 ft	104 ft	168 ft	266 ft
1000 ft	174 ft	282 ft	Too Deep
2000 ft	Too Deep	422 ft	Too Deep

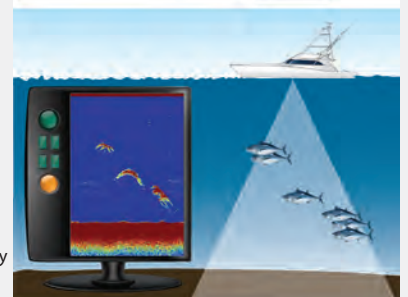
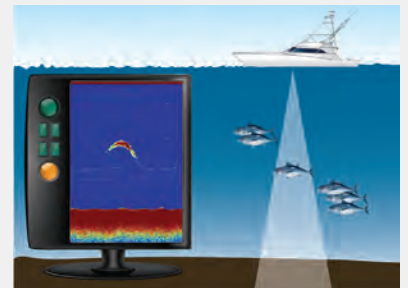
This chart compares the high and medium ceramic elements inside the transducer, showing the difference in bottom coverage under the boat.

Low frequency in each of these transducer models is the same (42 kHz - 65 kHz). The maximum depth range sounds to 3,000 ft.



- TM265LH – High Frequency
130 kHz-210 kHz
- TM265LM – Medium Frequency
85 kHz-135 kHz
- TM275LHW – Wide beam Frequency
150 kHz-250 kHz

The fish must be in the beam to be represented on the display.



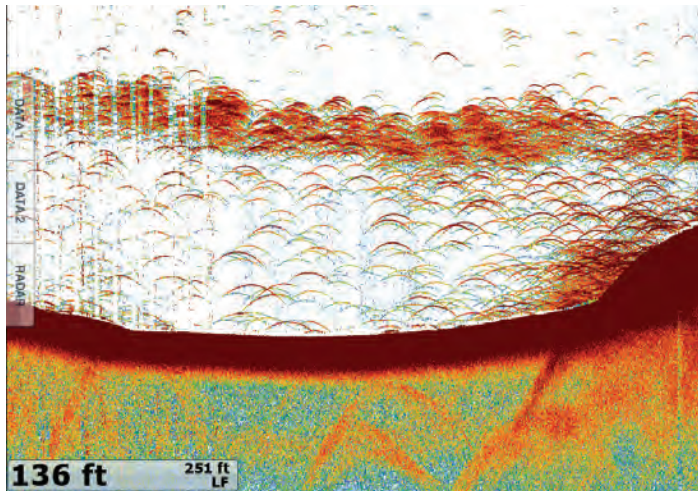
The Chirp Advantage

Traditional sounders operate at only two discrete frequencies – typically 50 kHz and 200 kHz. This results in limited depth range, resolution, and ultimately what targets can be detected in the water column.

In contrast, AIRMAR's game-changing Chirp-ready transducers provide over 70+ kHz of bandwidth. Transmitting over a wide frequency band results in a greater opportunity to detect what is in the water column. As a result, all targets detected in the entire bandwidth will be seen on the display—even those fish holding close to the bottom—ultimately improving target detection, detail, and range resolution.

Most Chirp transducers vary their beam width as they sweep through their frequency range (low, medium, and high). At the lowest frequency the beam is the widest and it narrows as the frequency increases.

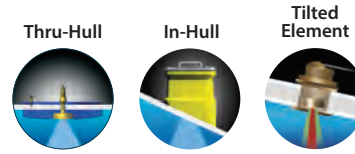
AIRMAR's new wide beam Chirp transducers are the exception to this rule and have a fixed beam width of either 25° or 40° across the frequency band. This translates into even more coverage under the boat, revealing more fish in the water column than ever before.



Courtesy of Furuno



Additional Mounting Options



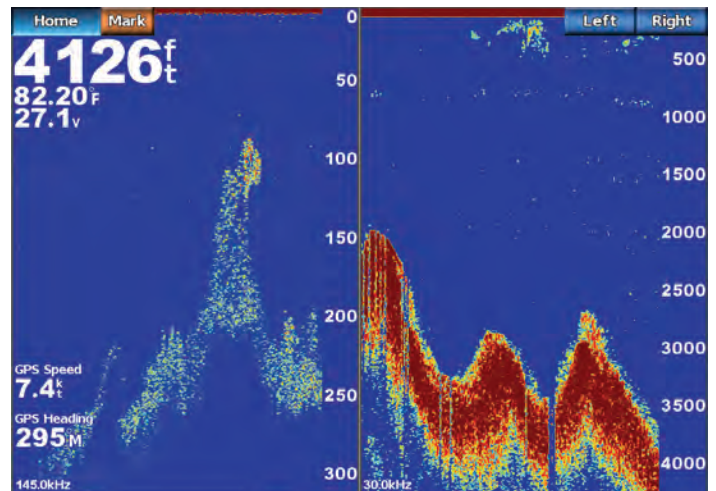
Choosing your mounting option depends on the design of the hull as well as the material it's manufactured with, the boats intended use, and the desired level of performance.

Need Help Choosing the Right Transducer?

Download the free, award-winning iNstall app! It's a great tool that takes the guesswork out of selecting the right transducer for your application. Based on frequency, mounting, housing, and cable options, iNstall will reveal the available option(s) and give you instant access to their specifications. Designed for iPhone, iPad and iPod smart phones and tablets running iOS 6.1 and newer.



iNstall



Courtesy of Garmin

www.airmar.com

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