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## MARINE PRODUCT SELECTION GUIDE

TRANSDUCERS, INSTRUMENTS AND SENSORS

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## HOW TO CHOOSE THE RIGHT TRANSDUCER AND MOUNTING STYLE

This easy-to-use selection guide is organized for you by the product that you currently have and by mounting style.

**STEP ONE:** The first thing you need to do is to locate your current product with which you are trying to match a transducer.

**STEP TWO:** After you find your current product, you can choose from the transducers that are designed to work with that unit.

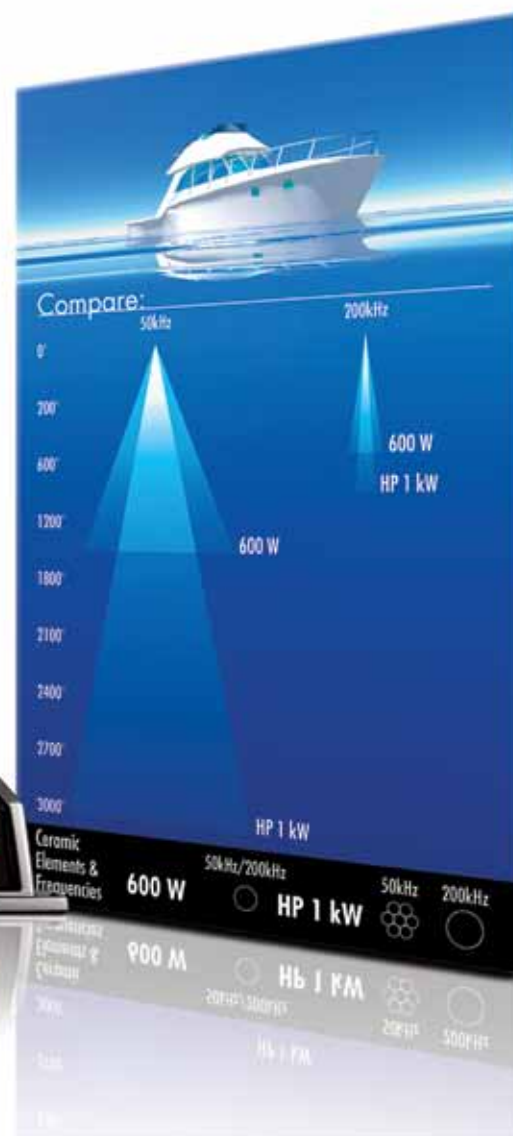
**NOTE:** IF YOU DO NOT SEE your product or transducer, please go to [Garmin.com](http://Garmin.com). Your unit may have been discontinued. Garmin still supports discontinued products and you will find them listed at [Garmin.com](http://Garmin.com).

## WHAT IS MEANT BY “SPREAD SPECTRUM WITH CHIRP TECHNOLOGY”?

Instead of using a single frequency like traditional sonar, Spread Spectrum with Chirp technology sweeps each pulse through a range of frequencies to deliver shallow-water-like target separation at extremely deep depths and at low frequencies.

Garmin Spread Spectrum with Chirp technology used on the GSD 26 not only gives better target separation and resolution at extraordinary depths, but also allows fishermen to dial into specific frequencies to target certain species of sport fish. It offers significantly better target definition, bottom contours and noise suppression at greater depths than traditional models, and a more timely interpretation of what’s below for safer navigation and better fishing.

This image shows the depth and beamwidth differences between a single-element, 600 W transducer and a multiple-element, high-performance 1 kW transducer.

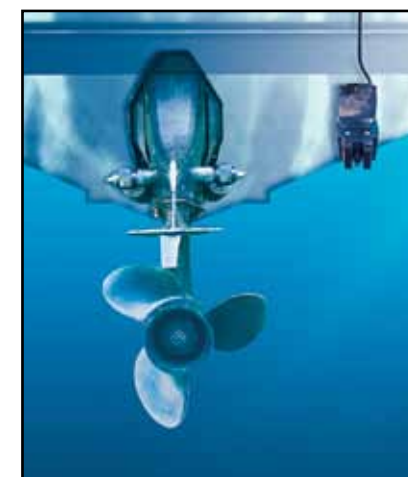


## CHOOSE THE RIGHT MOUNTING STYLE

**Transducers are typically mounted in one of three ways: through the hull, inside the hull, or on the transom.**

### Inside the Hull

An in-hull transducer is installed inside the bilge of a boat hull and sends & receives its signal through the hull. Some people prefer this mounting style, because it is not necessary to drill through the hull. A unit cannot be damaged when a boat is trailered, the transducer is not exposed to marine growth, and there is no drag. Additionally, a transducer can be installed and serviced while the vessel is in the water. Most in-hull transducers are mounted inside a liquid filled tank that is first epoxied in place. As long as the water flow below the transducer is “turbulent free”, it will give great high-speed performance. However, not all hull types (cored hulls, steel hulls, etc.) are suitable for in-hull transducer installation. In-hull transducers are recommended only for solid fiberglass hulls.



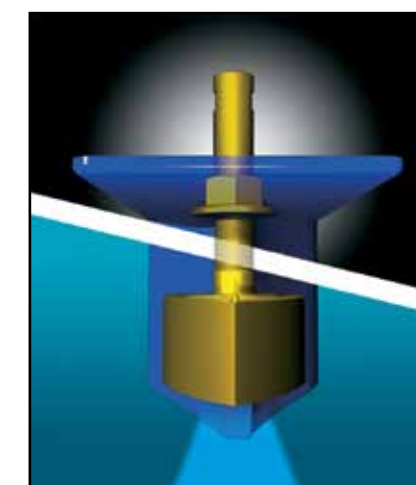
### On the Transom

Trailered boats typically use this mounting style, since it is out of the way of the rollers. Some people prefer a transom-mount because it is easy to install and remove a unit—especially if a kick-up bracket is used. Kick-up brackets move a transducer out of the way to prevent damage from floating debris when a boat is underway. They also protect the transducer when the boat is trailered, or when it is kept in the water for long periods of time. To obtain the best possible performance, install all transducers according to the included installation instructions. If you experience difficulty during the installation, contact Garmin Product Support, or seek the advice of a professional installer.

### Through the Hull

**Flush Mounts** sit flush or nearly flush with the boat hull and are recommended for smaller boats with a minimum deadrise angle. They are often installed on sailing vessels for their minimal drag.

**External Mounts** extend beyond the hull surface and usually require a fairing to aim the sound beam vertically and are for larger un-trailered vessels. When installed with a High-Performance Fairing, the transducer face is flush with the surface of the fairing and parallel to the waterline, resulting in a truly vertical beam, putting maximum energy on the target. Mounting in “clean water,” forward of propellers and running gear, produces the most effective signal return.



To obtain the best possible performance, install all transducers according to the included installation instructions. If you experience difficulty during the installation, contact Garmin Product Support, or seek the advice of a professional installer.

Mounting Style	Picture	Description	Garmin P/N	Freq. (kHz)	Power	Beam-width (°) LF/HF (-3dB)	Max Depth (ft.)	Depth/Speed/Temp	# of Pins	Cable Length (ft.)	Adapter Required?	Supported Deadrise/Transom Angles	Garmin comments
<b>FRESHWATER TRANSDUCERS FOR USE WITH THE ECHO FISHFINDER SERIES</b>													
Transom Mount		Garmin Design Dual Beam	010-10249-20	77/200	500w	45/15	900	D,T	4	30	No	0-70 degree transom	Replacement for the dual beam transducer included with echo units
		Garmin Legacy Dual Beam	010-10249-00	80/200	500w	45/15	900	D,T	6	30	010-11615-00	0-70 degree transom	010-10249-20 is preferred
Accessories		Garmin 4-pin Water Speed Sensor	010-10279-04	N/A	N/A	N/A	N/A	S	4	30	N/A	0-70 degree transom	Add water speed to your echo series fishfinder
		6-pin transducer to 4-pin sounder adapter	010-11615-00	N/A	N/A	N/A	N/A	N/A	Unit: 4 XDCR: 6	2	N/A	N/A	Use this to connect a Garmin 6-pin single/dual beam transducer to a Garmin 4-pin echo series fishfinder.
		4-pin transducer extension cable	010-11617-10	N/A	N/A	N/A	N/A	N/A	4	10	No	N/A	Extend a 4-pin transducer 10 feet

Mounting Style	Picture	Description	Garmin P/N	Freq. (kHz)	Power	Beam-width (°) LF/HF (-3dB)	Max Depth (ft.)	Depth/Speed/Temp	# of Pins	Cable Length (ft.)	Adapter Required?	Supported Deadrise/Transom Angles	Garmin comments
<b>FRESHWATER TRANSDUCERS FOR USE WITH THE GPSMAP 431S/531S/536S</b>													
Transom Mount		Garmin Legacy Dual Beam	010-10249-00	80/200	500w	45/15	900	D,T	6	30	No	0-70 degree transom	Replacement for the dual beam transducer included with unit.
		Garmin Design Dual Beam	010-10249-20	77/200	500w	45/15	900	D,T	4	30	010-11614-00	0-70 degree transom	010-10249-00 is preferred.
Triducer		Airmar P32 Triducer	010-10106-00	200	250W	13	900	D,S,T	6	25	No	3-20 degree transom	Provides depth, speed, and temp in one package.
		Airmar P72 trolling mount	010-10200-00	200	250W	15	900	D,T	6	15	No	N/A	Perfect for trolling motors or ice fishing.
Thru-Hull		Airmar P19 with 12° tilt	010-10218-00	200	375W	14	900	D,T	6	39	No	8-15 degree deadrise	Provides excellent performance at high speeds. Excellent on fiberglass and metal hulls. Do not use on wood hulls.
		Airmar B22 with 12° tilt	010-10217-00	200	375W	14	900	D,T	6	39	No	8-15 degree deadrise	Provides excellent performance at high speeds. Excellent on fiberglass and wood hulls. Do not use on metal hulls.
In-Hull		Airmar P72 in-hull	010-10224-00	200	250W	15	900	D	6	25	No	0-10 degree deadrise	Small, economical. No drilling required. Do not use with cored hulls.
Accessories		4-pin transducer to 6-pin sounder adapter	010-11614-00	N/A	N/A	N/A	N/A	N/A	Unit: 6 XDCR: 4	2	N/A	N/A	Use this to connect a Garmin 4-pin single/dual beam transducer to a Garmin 6-pin sounder.
		Airmar 6-pin T80 Temp Probe	010-10717-00	N/A	N/A	N/A	N/A	T	6	25	No	Any	Versatile water/temp sensor.
		Garmin 6-pin Water Speed Sensor	010-10279-01	N/A	N/A	N/A	N/A	S	6	25	No	0-70 degree transom	Water speed sensor that comes with an integrated y-cable to add water speed to your Garmin 6-pin sounder.
		6-pin ST850 Speed/Temp	010-10365-00	N/A	N/A	N/A	N/A	S,T	6	39	No	Any	Thru-hull water speed/temp sensor.
		10 ft. 6-pin transducer extension cable	010-10715-00	N/A	N/A	N/A	N/A	N/A	6	10	No	N/A	
	20 ft. 6-pin transducer extension cable	010-10716-00	N/A	N/A	N/A	N/A	N/A	6	20	No	N/A		

Mounting Style	Picture	Description	Garmin P/N	Freq. (kHz)	Power	Beam-width (°) LF/HF (-3dB)	Max Depth (ft.)	Depth/Speed/Temp	# of Pins	Cable Length (ft.)	Adapter Required?	Supported Deadrise/Transom Angles	Garmin comments
<b>OFF-SHORE TRANSDUCERS FOR USE WITH THE GSD22 - GPSMAP 4X1S/5X1S/5X6S/7X0S (EXCLUDES GPSMAP 431S/531S/536S)</b>													
Transom Mount		Garmin 6-pin Dual Frequency	010-10272-00	50/200	500W	40/10	1500	D,T	6	30	No	0-70 degree transom	Replacement for the dual frequency transducer included with many Garmin units.
		Garmin Dual Frequency	010-10272-10	50/200	500W	40/10	1500	D,T	8	30	010-11612-00	0-70 degree transom	010-10272-00 is preferred.
		Airmar P66 Triducer	010-10192-01	50/200	600W	45/11	800-1200	D,S,T	6	25	No	2-20 degree transom	Only offshore transom mount transducer to provide depth, speed, and temp in one package.
		Airmar TM260	010-11395-00	50/200	1kW	19/6	1800-2500	D,T	6	39	No	2-20 degree transom	Only transom mount 1kW transducer.

Mounting Style	Picture	Description	Garmin P/N	Freq. (kHz)	Power	Beam-width (°) LF/HF (-3dB)	Max Depth (ft.)	Depth/Speed/Temp	# of Pins	Cable Length (ft.)	Adapter Required?	Supported Deadrise/Transom Angles	Garmin comments
Thru-Hull		Airmar P319 with temp	010-10194-01	50/200	600W	45/12	800-1200	D,T	6	39	No	0-7 degree deadrise	Provides excellent performance at high speeds. Excellent on fiberglass and metal hulls. Do not use on wood hulls.
		Airmar B60 with 20° tilt	010-10982-00	50/200	600W	45/12	800-1200	D,T	6	39	No	16-24 degree deadrise	Entry level, bronze. Excellent for fiberglass and wood hulls. Accommodates deadrise angles of 16-24 degrees without a fairing.
		Airmar B60 with 12° tilt	010-10982-01	50/200	600W	45/12	800-1200	D,T	6	39	No	8-15 degree deadrise	Entry level, bronze. Excellent for fiberglass and wood hulls. Accommodates deadrise angles of 8-15 degrees without a fairing.
		Airmar B117 with temp	010-10182-01	50/200	600W	45/12	800-1200	D,T	6	39	No	0-7 degree deadrise	Provides excellent performance at high speeds. Excellent on fiberglass and wood hulls. Do not use on metal hulls.
		Airmar B45 Narrow Stem	010-10983-00	50/200	600W	45/12	800-1200	D,T	6	39	No	0-26 degree deadrise	Smallest, most economical, bronze stem transducer with a fairing. Requires only a 22mm hole. Excellent for fiberglass and wood hulls.
		Airmar B744V Triducer	010-10183-02	50/200	600W	45/12	800-1200	D,S,T	6	39	No	0-24 degree deadrise	Only thru-hull transducer that offers depth, speed, and temp in one package.
		Airmar B744VL Long Stem Triducer	010-10193-02	50/200	600W	45/12	800-1200	D,S,T	6	39	No	0-24 degree deadrise	Extended stem length version of B744V for steep deadrise vessels or thick, cored hulls.
		Airmar B164 with 20° tilt	010-11010-00	50/200	1kW	22x20/6x6	1200-1800	D,T	6	39	No	16-24 degree deadrise	Step up to 1kW without a fairing! Flushmounted bronze housing protrudes less than 1/4" outside hull and can sit on trailer rollers/bunks without damage.
		Airmar B164 with 12° tilt	010-11010-01	50/200	1kW	22x20/6x6	1200-1800	D,T	6	39	No	8-15 degree deadrise	
		Airmar S5270W widebeam	010-11140-00	50/200	1kW	25/25	1350-2000	D,T	6	39	No	0-20 degree deadrise	High performance 1kW with 4x the beamwidth at 200kHz than the B260. Perfect for fisherman who want to spot more fish in shallow to mid-water depths.
		Airmar B258	010-10703-00	50/200	1kW	14x23/3x5	1500-2200	D,T	6	39	No	0-26 degree deadrise	Mid-range 1kW performance with a narrow beam for good deep water capability and bottom definition.
		Airmar B260	010-10640-00	50/200	1kW	19/6	1800-2500	D,T	6	39	No	0-20 degree deadrise	Popular narrow beam, 1kW thru hull transducer with great deep water performance.
		Airmar R99	010-10642-00	50/200	2kW	8x17/5	2500-4000	D,T	6	39	No	0-25 degree deadrise	Most powerful thru-hull transducer for the GSD 22.
	In-Hull		Airmar P79 adjustable in-hull	010-10327-00	50/200	600W	45/12	800-1200	D	6	25	No	0-22 degree deadrise
		Airmar M260	010-10641-00	50/200	1kW	19/6	1800-2500	D	6	39	No	0-30 degree deadrise	Only in-hull 1kW transducer. Do not use with cored hulls. Maximum hull thickness should be no more than 1" thick.
		Airmar R199	010-10643-00	50/200	2kW	8x17/5	2500-4000	D	6	39	No	0-22 degree deadrise	Most powerful in-hull transducer for the GSD22. Maximum hull thickness should be no more than 1.5" thick.
Accessories		8-pin transducer to 6-pin sounder adapter	010-11612-00	N/A	N/A	N/A	N/A	N/A	Unit: 6 XDCR: 8	2	N/A	N/A	Connects new 8-pin offshore transducer to legacy 6-pin Garmin sonar units.
		Airmar 6-pin T80 Temp Probe	010-10717-00	N/A	N/A	N/A	N/A	T	6	25	No	Any	Versatile water/temp sensor. Temp range of 32-86F.
		Garmin 6-pin Water Speed Sensor	010-10279-01	N/A	N/A	N/A	N/A	S	6	25	No	0-70 degree transom	Water speed sensor that comes with an integrated y-cable to add water speed to your Garmin 6-pin sounder.
		6-pin ST850 Speed/Temp	010-10365-00	N/A	N/A	N/A	N/A	S,T	6	39	No	Any	Thru-hull water speed/temp sensor.
		10 ft. 6-pin transducer extension cable	010-10715-00	N/A	N/A	N/A	N/A	N/A	6	10	No	N/A	
	20 ft. 6-pin transducer extension cable	010-10716-00	N/A	N/A	N/A	N/A	N/A	6	20	No	N/A		

