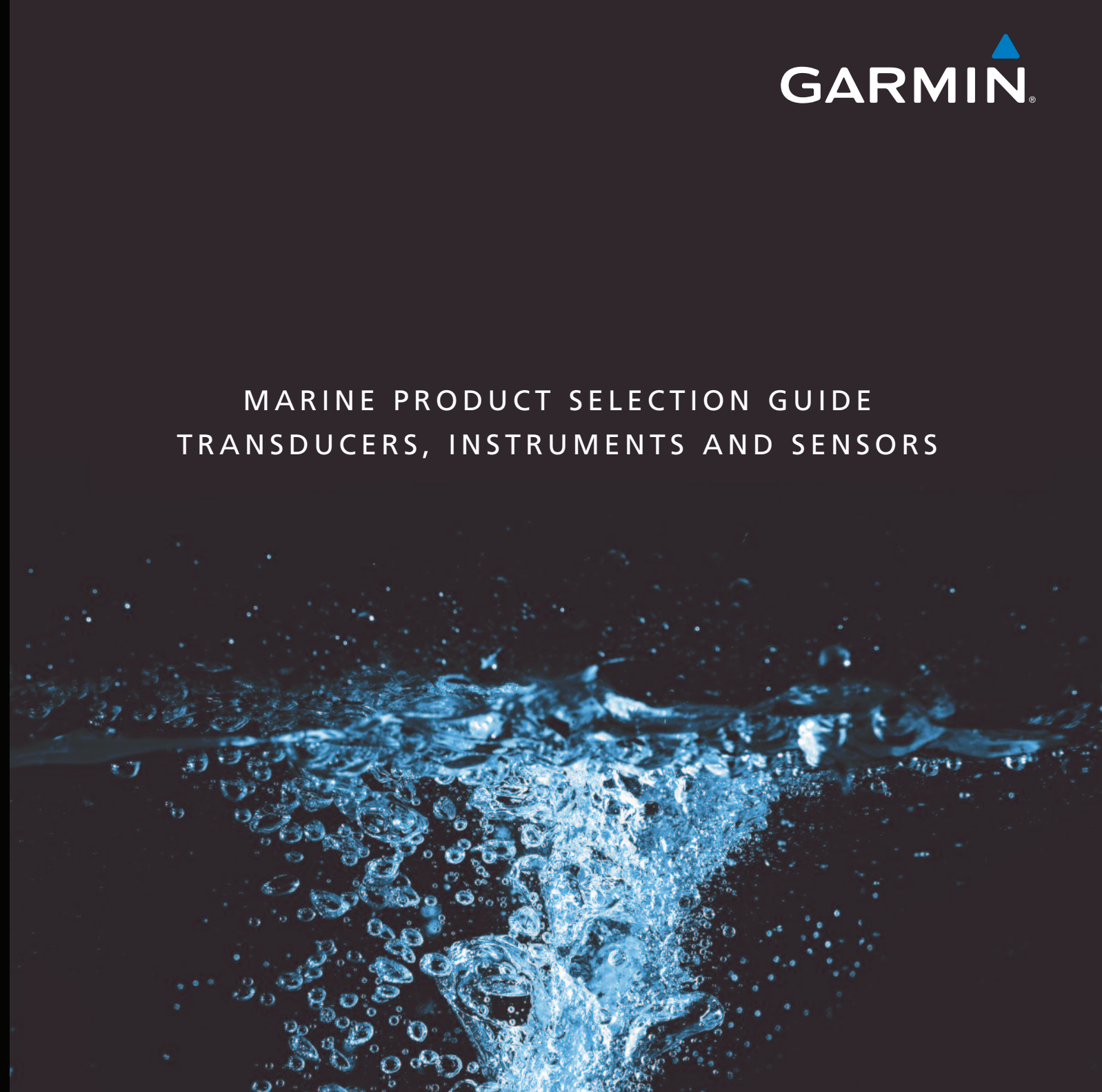


MARINE PRODUCT SELECTION GUIDE  
TRANSDUCERS, INSTRUMENTS AND SENSORS

[www.garmin.com/marine](http://www.garmin.com/marine)



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## TABLE OF CONTENTS

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2	Choosing the right transducer
4	Transom-Mount Transducers
5	In-Hull Mount Transducers
6	Flush Thru-Hull Transducers
7	External Thru-Hull Mount Transducers
8	Trolling Motor Mount Transducers / Water, Speed and Temperature Sensors
9	Extension Cables / Garmin Marine Instrument
10	Garmin Marine Sensors / Garmin Intelliducers
11	Airmar Smart Sensors™
12	600w vs. 1kw
13	Xducers and Broadband

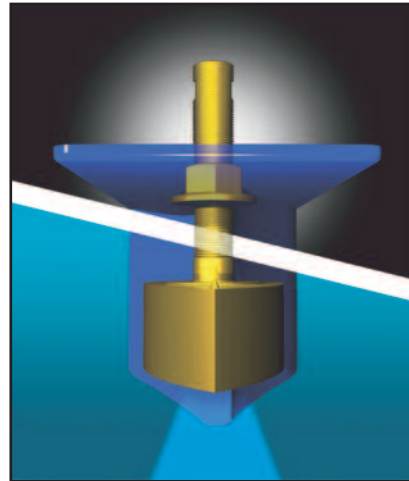
## CHOOSING THE RIGHT TRANSDUCER AND MOUNTING STYLES

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

### **Through the Hull**

The transducers in this mounting style fall into two categories. There are “flush” thru-hull sensors that sit flush or nearly flush with the boat hull. They are recommended for smaller boats with a minimum deadrise angle. And they are often installed on sailing vessels because they produce minimal drag.

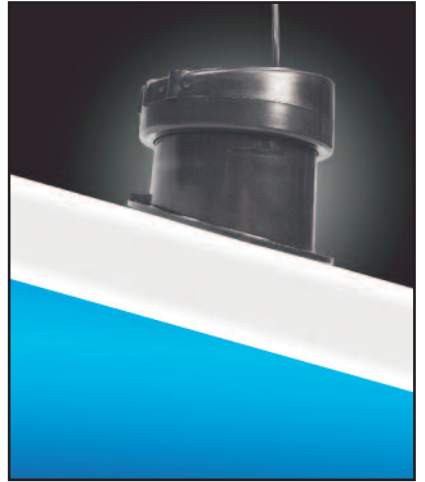
External thru-hull transducers extend beyond the hull’s surface and usually require a fairing to aim the sound beam vertically. They are right for larger un-trailerred vessels. When external mounts are installed with a High-Performance Fairing, the transducer face is flush with the surface of the fairing and parallel to the waterline, resulting in a truly vertical beam, putting maximum energy on the target. This installation, when mounted in “clean water,” forward of propellers and running gear, produces the most effective signal return, since nothing on the vessel interferes with the transducer’s active face.



Through the Hull

### **Inside the Hull**

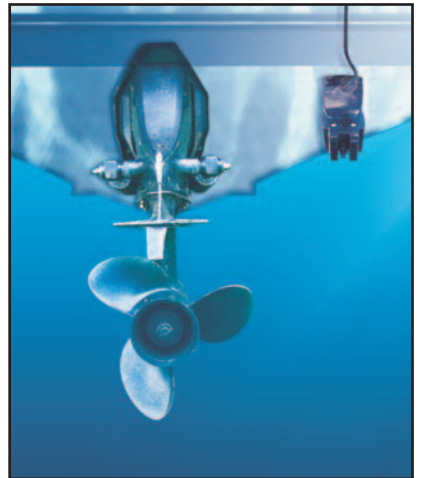
An in-hull transducer is installed inside the bilge of a boat hull and sends & receives its signal through the hull. Some people prefer this mounting style, because it is not necessary to drill through the hull. A unit cannot be damaged when a boat is trailered, the transducer is not exposed to marine 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 “clean”, 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.



Inside the Hull

### **On the Transom**

Transom-mounts are attached to the back (transom) of a boat hull. Trailerred 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. Also, they protect the transducer when a boat is trailered, or when it is kept in the water for a long period of time.



On the Transom

## TRANSOM MOUNT TRANSDUCERS

010-10105-00 / 010-10106-00

AIRMAR® P23/P32

200 kHz



- Transom-Mount, Plastic Housing
- Depth only - 010-10105-00
- Depth, speed and temperature - 010-10106-00
- 200 kHz
- 300 Watts
- 7.6 m (25') Cable
- This compact transom-mount will give you good target and bottom detail in shallow-water
- Designed for small outboard and I/O powered boats under 7.6 m (25')
- Beam Width: 200 kHz—15°
- Depth Range: 200 kHz—up to 183m (up to 600')
- Accomodates transom angles of 3° to 20°

010-10249-00

GARMIN STANDARD DUAL BEAM TRANSDUCER

80/200 kHz



- Transom or Trolling motor mount
- Depth and Temperature
- 80/200 kHz
- 400 Watts
- 9.1 m (30') Cable
- Designed for small outboard and I/O powered boats under 7.6 m (25')
- Beam Width: 80 kHz—45°, 200 kHz—15°
- Depth Range: up to 274m (up to 900')

010-10272-00

GARMIN STANDARD DUAL FREQUENCY TRANSDUCER

50/200 kHz



- Transom-Mount, Plastic Housing
- Depth and Temperature
- 50/200 kHz
- 500 Watts
- 9.1 m (30') Cable
- Designed for large outboard and I/O powered boats up to 11 m (35')
- Beam Width: 50 kHz—40° 200 kHz—10°
- Depth Range: up to 457m (up to 1500')

010-10192-01

AIRMAR® P66

50/200 kHz



- Transom-Mount, Plastic Housing
- Depth, Speed and Temperature
- 50/200 kHz
- 600 Watts
- 7.6 m (25') Cable
- Best performing transom-mount TRIDUCER® Multisensor
- Designed for large outboard and I/O powered boats up to 11 m (35')
- Beam Width: 50 kHz—45° 200 kHz—12°
- Depth Range: 50 kHz—244m to 366m (800' to 1200') 200 kHz—122m to 213m (400' to 700')
- Accomodates transom angles of 2° to 20°

010-11395-00

AIRMAR® TM260

50/200 kHz



- Transom-Mount, Urethane Housing
- Depth and Temperature
- 50/200 kHz
- 1,000 Watts
- 12 m (39') Cable
- Broadband transom-mount
- Designed for large outboard and I/O powered boats 8 m to 12 m (25' to 35')
- Beam Width: 50 kHz—19° 200 kHz—6°
- Depth Range: 50 kHz—610m (2,000') 200 kHz—180m (600')
- Accomodates transom angles of 3° to 21°

## IN-HULL MOUNT TRANSDUCERS

010-10224-00

AIRMAR® P72 In-Hull

200 kHz



- In-Hull, Plastic Housing
- Depth only
- 200 kHz
- 300 Watts
- 7.6 m (25') Cable - 010-10224-00
- For use with small boats under 6 m (20')
- Beam Width: 200 kHz—15°
- Depth Range: 200 kHz—up to 183m (up to 600')

010-10327-00

AIRMAR® P79

50/200 kHz



- In-Hull, Plastic Housing
- Depth only
- 50/200 kHz
- 600 Watts
- 7.6 m (25') cable
- No holes to drill and no hull protrusions on solid fiberglass hulls up to 25.4 (1") thick and aluminum hulls under 0.38 mm (0.150") thick
- Recommended for planning hull power boats, trailered boats, rigid inflatable boats (RIBS), and racing sailboats
- Beam Width: 50 kHz—45° 200 kHz—12°
- Depth Range: 50 kHz—244m to 366m (800' to 1200') 200 kHz—122m to 213m (400' to 700')
- Adjustable for deadrise angles up to 22°

010-10445-00 / 010-10641-00

AIRMAR® M260

50/200 kHz



- In-Hull
- Depth Only
- 50/200 kHz
- 010-10445-00 is compatible with GSD20/21; 010-10641-00 is compatible with GSD22
- 1,000 Watts
- 12 m (39') Cable
- Broadband: 010-10641-00
- Separate 50 and 200 kHz ceramics
- Top performing 1kW broadband in-hull transducer with no hull protrusions
- For use on solid fiberglass hulled sportfishing boats
- Deadrise angles up to 25°
- Broadband Ceramic Technology:
  - Provides better image detail and resolution
  - Distinguishes individual fish targets and fish tight to the bottom
- Beam Width: 50 kHz—19° 200 kHz—6°
- Depth Range: 50 kHz—549m to 762m (1800' to 2500') 200 kHz—213m to 305m (700' to 1000')

010-10643-00

AIRMAR® R199

50/200 kHz



R199

- In-Hull Depth Only
- 50 kHz and 200 kHz
- 2,000 Watts
- 12 m (39') Cable
- Separate 50 and 200 kHz broadband ceramics
- The ultimate 2kW performance transducers for the professional sportfisherman
- For use with sportfishing and commercial fishing boats 11 m (35') and up
- Broadband Ceramic Technology:
  - Provides better image detail and resolution
  - Distinguishes individual fish targets and fish tight to the bottom
- Beam Width: 50 kHz—8° x 17° 200 kHz—5°
- Depth Range: 50 kHz—762m to 1219m (2500' to 4000') 200 kHz—244m to 366m (800' to 1200')
- For use with GSD22 and GPSMAP 5x5s
- Deadrise angles up to 25°

## FLUSH THRU-HULL TRANSDUCERS

010-10119-00 / 010-10218-00

AIRMAR® P19

200 kHz



- Thru-Hull, Plastic Housing
- Depth only - 010-10119-00  
Depth and Temperature - 010-10218-00
- 200 kHz
- 375 Watts
- 12 m (39') Cable
- Low-profile design leaves no protrusions below your hull and allows for excellent performance at cruising speeds
- For use with cruising boats and sailboats under 12.2 m (40')
- Beam Width: 200 kHz—12°
- Depth Range: 200 kHz—up to 213m (up to 700')
- For use on fiberglass and metal hulls with 0° to 12° of deadrise

010-10107-00 / 010-10217-00

AIRMAR® B22

200 kHz



- Thru-Hull, Bronze Housing
- Depth only: 010-10107-00  
Depth and Temperature - 010-10217-00
- 200 kHz
- 375 Watts
- 12 m (39') Cable
- Low-profile design leaves no protrusions below your hull and allows for excellent performance at cruising speeds
- For use with cruising boats and sailboats under 12.2 m (40')
- Beam Width: 200 kHz—12°
- Depth Range: 200 kHz—up to 213m (up to 700')
- For use on fiberglass and wood hulls with 0° to 12° of deadrise

010-10194-00 / 010-10194-01

AIRMAR® P319

50/200 kHz



- Thru-Hull, Plastic Housing
- Depth only: 010-10194-00  
Depth and Temperature - 010-10194-01
- 50/200 kHz
- 600 Watts
- 12 m (39') Cable
- Low-profile design has no effect on your boats running performance
- For use on fiberglass and metal hulls with 0° to 12° of deadrise
- Beam Width: 50 kHz—45° 200 kHz—12°
- Depth Range: 50 kHz—244m to 366m (800' to 1200') 200kHz—122m to 213m (400' to 700')

010-10182-00 / 010-10182-01

AIRMAR® B117

50/200 kHz

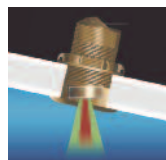


- Thru-Hull, Bronze Housing
- Depth only: 010-10182-00  
Depth and Temperature - 010-10182-01
- 50/200 kHz
- 600 Watts
- 12 m (39') Cable
- Low-profile design has no effect on your boats running performance
- For use on fiberglass and wood hulls with 0° to 8° of deadrise
- See B60 for 600 Watt high-performance option and B164 for 1KW option.
- Beam Width: 50 kHz—45° 200 kHz—12°
- Depth Range: 50 kHz—244m to 366m (800' to 1200') 200kHz—122m to 213m (400' to 700')

010-10982-00 / 010-10982-01

AIRMAR® B60 Tilted Element

50/200 kHz

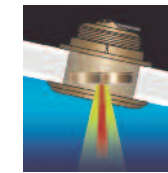


- Thru-Hull, Bronze Housing
- Depth and Temperature
- 50/200 kHz
- 600 Watts
- 20° Tilt: 010-10982-00  
12° Tilt: 010-10982-01
- 12 m (39') Cable
- Fixed Tilted Element™ compensates for hull deadrise aiming the beam straight down resulting in strong echo returns and accurate depth readings
- For use on fiberglass and wood hulls
- 12° tilt accommodates 8° to 15° hull deadrise 20° tilt accommodates 16° to 24° hull deadrise
- Beam Width: 50 kHz—45° 200 kHz—12°
- Depth Range: 50 kHz—244m to 366m (800' to 1200') 200kHz—122m to 213m (400' to 700')

010-11010-00 / 010-11010-01

AIRMAR® B164 Tilted Element

50/200 kHz



- Thru-Hull, Bronze Housing
- Depth and Temperature
- 50/200 kHz
- 1,000 Watts
- 20° Tilt: 010-11010-00  
12° Tilt: 010-11010-01
- 12 m (39') Cable
- Fixed Tilted Element™ compensates for hull deadrise aiming the beam straight down resulting in strong echo returns and accurate depth readings
- For use with center console and sportfishing boats up to 7.6 m (25') and up with wood and fiberglass hulls
- 12° tilt accommodates 8° to 15° hull deadrise 20° tilt accommodates 16° to 24° hull deadrise
- Beam Width: 50 kHz—22° x 20° 200 kHz—6° x 6°
- Depth Range: 50 kHz—366m to 549m (1200' to 1800') 200kHz—152m to 244m (500' to 800')
- For use with GSD22 and GPSPMAP 5x5s

## EXTERNAL THRU-HULL MOUNT TRANSDUCERS

010-10983-00

AIRMAR® B45

50/200 kHz



- Narrow Stem Thru-Hull, Bronze Housing. Fairing is included.
- Depth and Temperature
- 50/200 kHz
- 600 Watts
- 12 m (39') Cable
- Requires only a 22mm hole
- For use on fiberglass and wood hulls with up to 28° of deadrise.
- Beam Width: 50 kHz—45° 200 kHz—12°
- Depth Range: 50 kHz—244m to 366m (800' to 1200') 200kHz—122m to 213m (400' to 700')

010-10183-02 / 010-10193-02

AIRMAR® B744V/VL

50/200 kHz



- Thru-Hull, Bronze Housing
- Fairing is included
- Depth, Speed, and Temperature
- 50/200 kHz
- 600 Watts
- B744V - 010-10183-02  
B744VL (long stem) - 010-10193-02
- 12 m (39') Cable
- Three sensors in one
- Designed for use on all fiberglass and wood boat types—power and sail
- Beam Width: 50 kHz—45° 200 kHz—12°
- Depth Range: 50 kHz—244m to 366m (800' to 1200') 200kHz—122m to 213m (400' to 700')
- Deadrise angles up to 28°

010-10703-00

AIRMAR® B258

50/200 kHz



- Thru-Hull, Bronze Housing. Fairing included
- Depth and Temperature
- 50/200 kHz
- 1,000 Watts
- 12 m (39') Cable
- Elliptical beam covers more bottom area thus increasing your catch
- For use with sportfishing and commercial fishingboats 11 m (35') and up with fiberglass and wood hulls. For use with GSD22 and GPSPMAP 5x5s units.
- Economical 1 KW solution
- Deadrise angles up to 25°
- Beam Width: 50 kHz—15° x 21°  
200 kHz—3° x 5°
- Depth Range: 50 kHz—457m to 671m (1500' to 2200') 200kHz—213m to 305m (700' to 1000')

010-10451-00 / 010-10640-00

AIRMAR® B260

50/200 kHz



- Thru-Hull, Bronze Housing, Fairing included
- Depth and Temperature
- 50/200 kHz
- 010-10641-00 is compatible only with GSD22
- 1,000 Watts
- 12 m (39') Cable
- Broadband: 010-10640-00
- Separate 50 and 200 kHz ceramics
- Top performing 1 kW broadband transducer gives you crystal clear imaging at all depths
- For use with sportfishing and commercial fishing boats 11 m (35') and up with fiberglass and wood hulls
- Deadrise angles up to 22°
- Broadband Ceramic Technology:
  - Provides better image detail and resolution
  - Distinguishes individual fish targets and fish tight to the bottom
- Beam Width: 50 kHz—19° 200 kHz—6°
- Depth Range: 50 kHz—549m to 762m (1800' to 2500') 200kHz—213m to 305m (700' to 1000')

010-11140-00

AIRMAR® SS270W

50/200 kHz



- Thru-Hull stainless housing, Fairing is included
- Depth and Temperature
- 50/200 kHz
- 1,000 Watts
- 12 m (39') Cable



- Separate 50 and 200kHz ceramics. Identical beam widths at 50kHz and 200kHz.
- For use with sportfishing and commercial fishing boats 11 m (35') and up with all hull types.
- Deadrise angles up to 28°
- Beam Width: 50 kHz—25° 200 kHz—25°

- Only 1Kw wide beam 200 kHz transducer
- Depth Range: 50 kHz—411m to 610m (1350' to 2000') 200kHz—101m to 183m (330' to 600')
- For use only with GSD22 and GPSMAP 5x5s units

010-10642-00

AIRMAR® R99

50/200 kHz



R99

- Thru-Hull
- Depth and Temperature
- 50 kHz and 200 kHz
- 2,000 Watts
- 12 m (39') Cable



- Separate 50 and 200 kHz broadband ceramics
- The ultimate 2kW performance transducers for the professional sportfisherman
- For use with sportfishing and commercial fishing boats 11 m (35') and up
- Broadband Ceramic Technology:
  - Provides better image detail and resolution
  - Distinguishes individual fish targets and fish tight to the bottom

- Beam Width: 50 kHz—8° x 17° 200 kHz—5°
- Depth Range: 50 kHz—762m to 1219m (2500' to 4000') 200kHz—244m to 366m (800' to 1200')
- For use with GSD22 and GPSMAP 5x5s
- Deadrise angles up to 25°

## TROLLING MOTOR MOUNT TRANSDUCER

010-10200-00

AIRMAR® P72 Trolling Motor Mount

200 kHz



- Trolling Motor Mount
- Depth and Temperature
- 200 kHz
- 300 Watts
- 4.6 m (15') Cable: 010-10200-00

- For use with small boats under 6 m (20')
- Beam Width: 200 kHz—15°
- Depth Range: 200 kHz—up to 183m (up to 600')

## WATER SPEED AND TEMPERATURE SENSORS

010-10365-00 AIRMAR® ST850



- Thru-Hull, Plastic Housing
- Water Speed and Temperature
- 12 m (39') Cable
- For use on fiberglass and metal hulls

010-10279-01 GARMIN® WATER SPEED SENSOR



- Transom-Mount Plastic housing
- Water Speed
- 7.62 m (25') Cable

010-10717-00 AIRMAR® T80



- Transom Mount
- Water Temperature
- 7.62 m (25') Cable

## EXTENSION CABLES

010-10715-00

3m (10') Transducer Extension Cable

010-10716-00

6m (20') Transducer Extension Cable

## GARMIN MARINE INSTRUMENTS

GMI® 10

010-00687-00



Garmin marine instruments, “Your data your way.” In the past, most standard marine instruments were single-function units – with each remote sensor having a dedicated display. Now, with the new multifunction Garmin GMI™ 10 instrument displays, mariners can do and see more with less. Our digital design gives installers the flexibility to customize and streamline installation configurations – using fewer instruments to display sensor data from multiple inputs. The GMI 10 makes it easy to monitor navigation, heading and environmental data – everything from basic depth, speed, winds and water temperatures to detailed GPS readouts, fuel flows, engine data, RPMs, trip odometer, user alarms and more. Featuring big, bright 3.5-inch QVGA screens in a sleek 4-inch flush-mount bezel, the system offers great flexibility and compatibility with Garmin and non-Garmin sensors, including both NMEA 2000 and NMEA 0183 formats. Garmin’s new line of intelligent transducers or others that use the NMEA 2000 or NMEA 0183 formats.

## GARMIN MARINE SENSORS

010-00671-00

GFS10 GASOLINE FUEL SENSOR



- Installs in your boat's fuel line with 3/8" (9.5mm) hose fittings
- Fuel resistant plastic housing
- Fuel flow and fuel level
- Measures flow rates up to 50 gal./hr. (190 L/hr)
- 7.6m (25') power/fuel level cable, 1.8m (6') NMEA 2000 drop cable
- Fuel Level sensing when connected to an existing analog fuel gauge or resistive fuel tank sender
- NMEA 2000 or Garmin CANet
- Gasoline engines only

010-00694-00 / 010-10694-10

GPS 17x HVS / GPS17x NMEA 2000



- High sensitivity 12-channel GPS receiver/antenna
- Pole, flush, or under deck mount plastic housing
- NMEA 0183 - 010-00694-00 and NMEA 2000 - 010-00694-10

## GARMIN® INTELLIDUCERS™

010-00701-00 / 010-00701-01

160kHz

010-00702-00 / 010-00702-01

Garmin® Thru Hull Intelliducers



### NMEA 2000® Version

- Thru-hull Intelliducer
- 160kHz, 150W
- Beam Width: 17.5°
- Depth Range: 275 m (up to 900')
- NMEA2000, 0-12°: 010-00701-00 NMEA2000, 13-24° – 010-00701-01
- 6 m (20') NMEA2000 cable
- Depth and Temperature

### NMEA 0183® Version

- Thru-hull Intelliducer
- 160kHz, 150W
- Beam Width: 17.5°
- Depth Range: 275 m (up to 900')
- NMEA0183, 0-12°: 010-00702-00 NMEA0183, 13-24° – 010-00702-01
- 9 m (30') cable with no connector
- Depth and Temperature

010-00703-00 / 010-00704-00

Garmin® Transom-Mount Intelliducers

160kHz



### NMEA 2000® Version

- Transom-Mount Intelliducer
- 160kHz, 150W
- Beam Width: 17.5°
- Depth Range: 275 m (up to 900')
- NMEA2000: 010-00703-00
- 6 m (20') NMEA2000 cable
- Depth and Temperature

### NMEA 0183® Version

- Transom-Mount Intelliducer
- 160kHz, 150W
- Beam Width: 17.5°
- Depth Range: 275 m (up to 900')
- NMEA0183: 010-00704-00
- 9 m (30') cable with no connector
- Depth and Temperature

## AIRMAR® SMART™ SENSORS

010-11105-00 / 010-11105-01

AIRMAR® DT800 Smart™ Sensor  
Tilted Element™

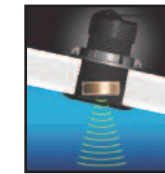
235 kHz



### NMEA 2000® Version

- Thru-Hull, Smart™ Sensor, plastic housing
- Broadband ceramic, 235 kHz, 100 W power
- Beam Width: 11°
- Depth Range: 183m (up to 600')
- Depth and Temperature: 010-11105-00—Fixed 20° tilt  
010-11105-01—Fixed 12° tilt
- 6 m (20') Devicenet cable
- For use on fiberglass and metal hulls. 12° tilt accommodates 8° to 15° deadrise. 20° tilt accommodates 16° to 24° deadrise

### Tilted / Angled



The ceramic element is tilted inside the housing, which compensates for your boats deadrise. This aims the beam straight toward the bottom, resulting in stronger echo returns and more accurate depth readings.

010-11051-00 / 010-11051-10

AIRMAR® DST800 Smart™ Sensor

235 kHz



### NMEA 2000® Version

- Thru-Hull, Smart™ Sensor: 010-11051-00, plastic housing
- 235 kHz, 100 W power
- Beam Width: 10° x 44°
- Depth Range: 100 m (up to 330')
- Depth, Speed, and Temperature: 010-11051-00
- 6 m (20') Devicenet cable
- For use on fiberglass and metal hulls with up to 22° deadrise

### NMEA 0183® Version

- Thru-Hull, Smart™ Sensor: 010-11051-10, Plastic Housing
- 235 kHz, 60 W power
- Beam Width: 10° x 44°
- Depth Range: 70 m (up to 230')
- Depth, Speed, and Temperature: 010-11051-10
- 10 m (33') cable with no connector
- For use on fiberglass and metal hulls with up to 22° deadrise

010-11050-00 / 010-11050-10 /  
010-11050-20

AIRMAR® P39 Smart™ Sensor

235 kHz

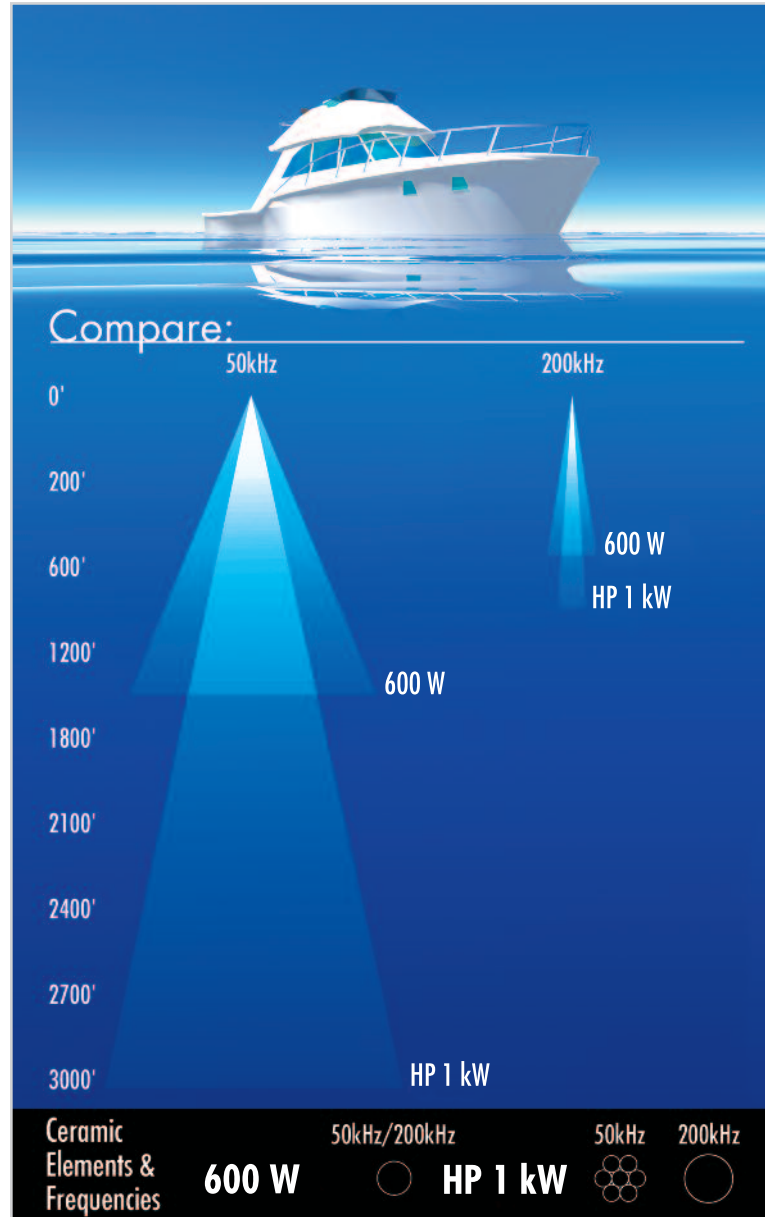


### NMEA 2000® Version

- Transom-Mount Smart™ Sensor: 010-11051-00
- 235 kHz, 100 W power
- Beam Width: 11°
- Depth Range: 152m (up to 500')
- Depth, Speed, and Temperature: 010-11050-00
- Depth and Temperature: 010-11050-10
- 6 m (20') Devicenet cable
- Accommodates transom angles of 0° to 20°

### NMEA 0183® Version

- Transom-Mount Smart™ Sensor: 010-11050-10
- 235 kHz, 60 W power
- Beam Width: 11°
- Depth Range: 100 m (up to 330')
- Depth, Speed, and Temperature: 010-11050-10
- 10 m (33') cable with no connector
- Accommodates transom angles of 0° to 20°

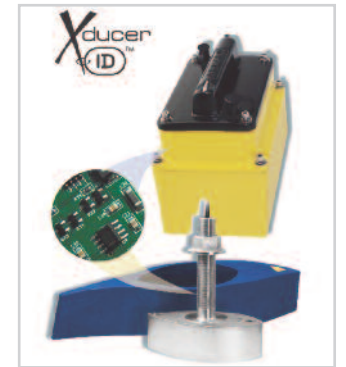


This image shows the depth and beamwidth differences between a single-element, 600 W transducer and a multiple-element, high-performance 1 kW transducer.

## XDUCER ID™ FEATURE

Transducer ID allows echosounders to query the connected transducer gathering important operating characteristics. With this data, the echosounder and transducer function as a precisely-tuned system. A Transducer ID enabled sensor contains an embedded microcontroller that communicates with the connected echosounder via a single conductor in the transducer cable. The principal data transmitted is intended to identify the type and configuration of the transducer. Then the echosounder can alter its parameters of operation to optimize performance and to protect the transducer from overdrive. The Transducer ID feature also provides important information to installers and technicians such as serial number and housing style. Listed below is a summary of the information that the Transducer ID feature can provide to future fishfinders.

- Part number
- Housing style
- Serial number
- Ceramic element configuration
- Date of manufacture
- Acoustic window
- Impedance matching configuration
- Nominal frequency(s)
- Best transmit frequency(s)
- Power rating
- Beam pattern



## BROADBAND TRANSDUCER TECHNOLOGY

Affordable Broadband Transducers are an enabling technology that provides better fish detection today and will lead to dramatic advances in echosounder performance in the future.

Broadband Transducers enhance fish detection and give better definition; it is far easier to distinguish among individual fish and between fish and the bottom.

The superior results are achieved by using a new ceramic material. It lets transducers operate over a range of frequencies while maintaining sensitivity. These Broadband Transducers are, by definition, low-Q devices. In other words, they exhibit very low ringing. There is little variation from transducer to transducer. Additionally, Broadband Transducers are relatively immune to the effects of aging, so their frequency range remains stable over time.

