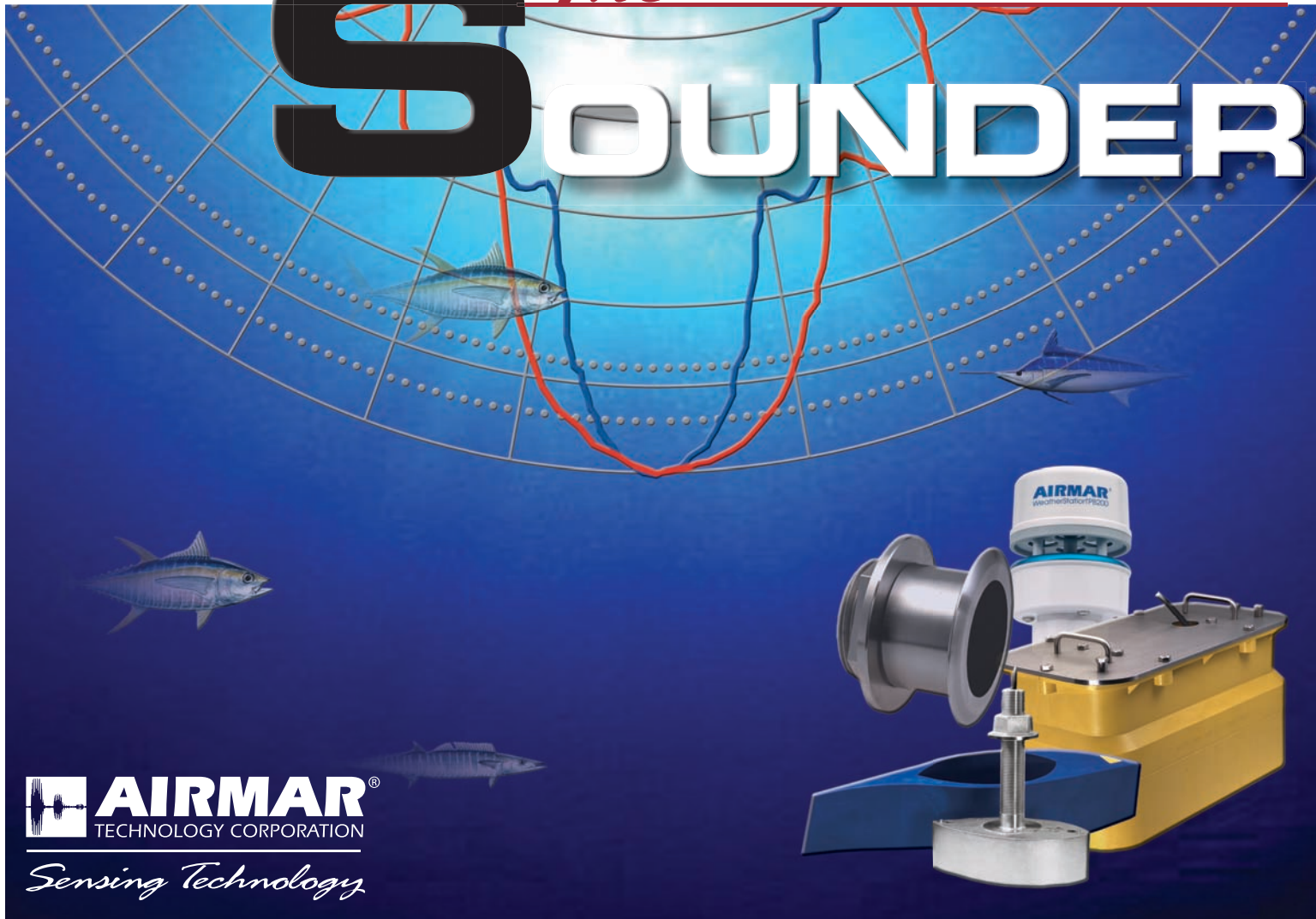


The **S**OUNDER



Welcome

The Sounder is Airmar's quarterly newsletter that presents our newest innovative products, offers hands-on installation tips, explains our quality features, and acquaints OEMs, installers, and the press with our company's resources.

Summer 2009 Features

- New WeatherCaster 3.003 PC Software with U200 NMEA 2000® USB gateway
- See Airmar videos on YouTube
- New NMEA 2000® Smart Sensors™ on the way
- Interactive Hull Deadrise and Bottom Coverage Area Calculator

If you know someone who would like to receive this informative newsletter, or if you would like to unsubscribe, please e-mail mreedenaer@airmar.com.

New WeatherCaster 3.003 PC Software with U200 NMEA 2000® Gateway

WeatherCaster's latest version 3.003 allows you to use our new U200 USB Gateway to view Airmar PB200 WeatherStation data on your PC. The U200 allows for a plug and play installation from the on-board NMEA 2000 backbone to your computer—for viewing all Airmar NMEA 2000 sensor data. To purchase the U200, please contact our distributors, Gemeco or Airmar EMEA.

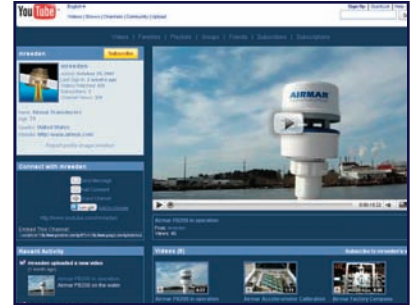
As always, WeatherCaster version 3.003 is a free download at www.airmar.com.

U200



See Airmar videos on YouTube!

The Airmar test team invites you to check out various Airmar transducer and sensor performance videos on YouTube. Videos make a world of difference when trying to select a particular Airmar transducer or sensor. Seeing the product in action on various fishfinder displays can help you decide what is best for your boat.



New NMEA 2000® Smart Sensor™ Transducers

Based on customer requests, we have expanded our NMEA 2000 transducer lineup. Beginning in the fall of 2009, there will be NMEA 2000 versions of the B744V, B122, and ST850. All of these units will have a 6 meter (20 ft) cable with a molded NMEA 2000 device net connector.

B744V Bronze TRIDUCER® Multisensor

- Ideal for larger vessels where a High-Performance Fairing is preferred
- Depth, Speed, and Temperature in a single housing
- 235 kHz operation prevents interference with on-board fishfinder
- Bronze housing with valve for easy cleaning and service
- Depth sounding down to 180 meters (600 ft)

B122 Bronze Long-Stem

- Long-stem is designed for wooden vessels with a thick hull or sailing vessels with a steep deadrise.
- Depth and Temperature
- 235 kHz operation prevents interference with on-board fishfinder
- Bronze housing with valve for easy cleaning and service
- Depth sounding down to 180 meters (600 ft)
- High-Performance Fairing is included

ST850

- Speed and Temperature only
- Retractable insert for easy cleaning and service
- Thru-hull, plastic, bronze, or stainless steel housings with valve

NMEA 2000® certification is pending on these new products.



B744V



B122

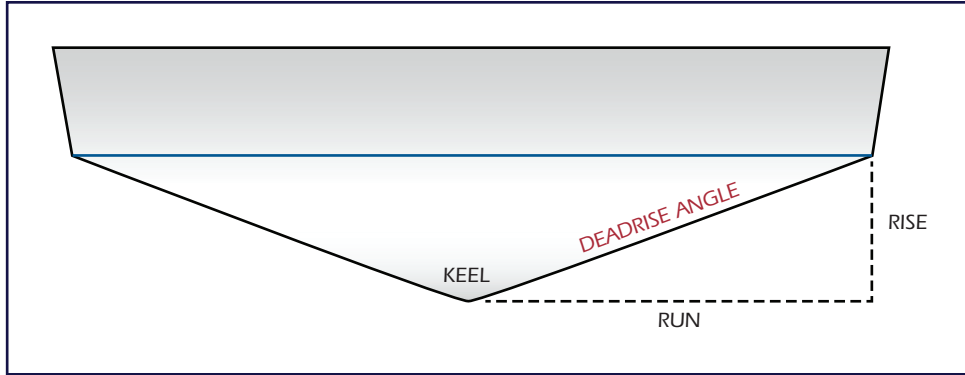


ST850

Hull Deadrise Calculator

Our engineers have developed a time-saving program to help you calculate hull deadrise angle before you install a transducer. Deadrise angle is critical if you are installing a High-Performance Fairing (which needs to be cut so that the transducer beam is oriented vertically), or if you are installing a Tilted Element™ transducer (which are offered in 12° or 20° tilt versions). All you need to measure is the vertical rise and horizontal run out from the keel of the boat (see diagram below), and the program takes care of the rest.


This program can be viewed or downloaded at www.airmar.com.



Bottom Coverage Area Calculator

Airmar's Bottom Coverage Calculator tells you how much circular bottom area a transducer will see based on a given depth. Simply enter the cone angle of the transducer at each frequency and then enter a specific water depth. The program will give you both the diameter of the cone and the bottom area the transducer will view.

This program can be viewed or downloaded at www.airmar.com.

 <i>Sensing Technology</i>		
Bottom Coverage (Circular array) with Comparison Feature		
Equation		
Coverage = 2 X (Depth X (tangent (Cone Angle / 2)))		
Enter Wide Cone Angle in Degrees 45	Half Angle 22.5	Tan Half-Angle 0.414
Enter Depth in Any Linear Units of Measure(ft. m, etc.) 50	>>>>>>	Bottom Coverage in Same Linear Units of Measure (ft, m, etc.) (This is the wide beam diameter.) 41.4
		Wide Beam Area = (D/2) squared x PI (Units at square feet, square meters, etc.) 1347.5
Enter Narrow Cone Angle in Degrees 11	Half Angle 5.5	Tan Half-Angle 0.096
Depth (same as entered above ft, m, etc.) 50	>>>>>>	Bottom Coverage in Same Linear Units of Measure (ft, m, etc.) (This is the narrow beam diameter.) 9.6
		Narrow Beam Area = (D/2) squared x PI (Units at square feet, square meters, etc.) 72.8
Comparison (a ratio with no units) (Wide Beam Area / Narrow Beam Area) 19		