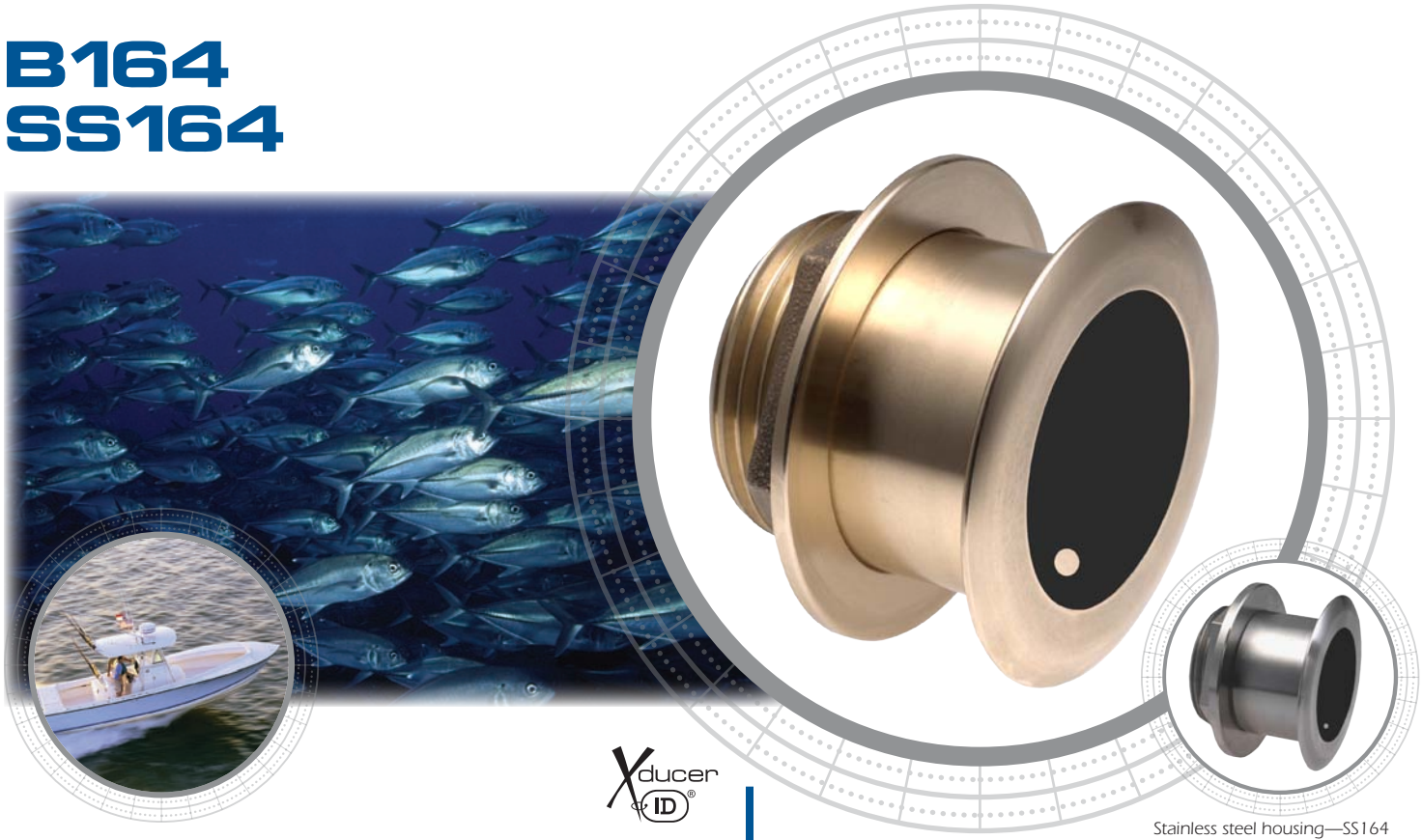
B164
SS164



Stainless steel housing—SS164

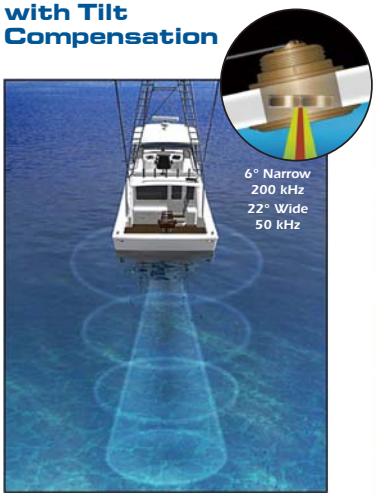
Aim in the Right Direction

Airmar has taken our innovative Tilted Element™ technology to a higher power. The 1kW, B164 transducer is perfect for fast, trailered, tournament, sportfishing vessels that cannot install a thru-hull with a High-Performance Fairing. The low-profile bronze housing protrudes less than 6.35 mm (0.25") outside your hull, which results in excellent performance at speeds up to 30 knots (34 MPH).

Fine Tune Your Fishing

The ceramic arrays are tilted inside the housing giving you a perfect vertical beam with maximum energy on what is directly below your boat. Take your fishfinder to the next power with Airmar's 1kW Tilted Element Transducers.

Proper Installation with Tilt Compensation



Improper Installation without Tilt Compensation

In a proper installation 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.

www.airmar.com

Tilted Element™ Thru-Hull
1 kW

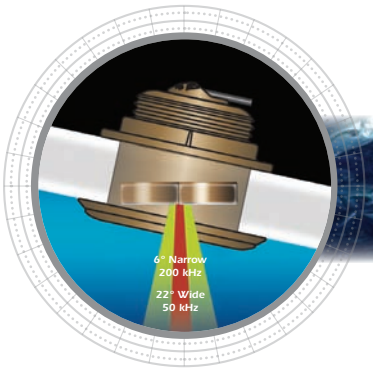
Fishing Applications

- Inshore and blue-water trolling
- Deep-water bottom and structure fishing up to 500 m (1,640')
- The versatile 1 kW transducer for all types of fishing

Features

- Fixed 20° tilted version for 16° to 24° hull deadrise
- Fixed 12° tilted version for 8° to 15° hull deadrise
- Fixed 0° tilted version for 0° to 7° hull deadrise
- 1 kW power, 50/200 kHz multiple-ceramics
- Engineered for center-console and trailered boats
- Low-profile protrusion below the hull
- No affect on your boats running performance
- Interfaces to any 600 W or 1 kW echosounder
- Bronze or stainless steel housings available
- Depth and fast-response water-temperature sensor
- Boat Size: 8 m to 11 m (25' to 35')

AIRMAR® TECHNOLOGY CORPORATION
Sensing Technology



B164, SS164

Technical Information

50/200 kHz-Glq		
Number of Elements and Configuration		
Beamwidth (@-3 dB)	22° x 20°	6° x 6°
RMS Power (W)	1 kW	1 kW
TVR	158 dB	168 dB
RVR	-177 dB	-189 dB
FOM	-23 dB	-19 dB
Q	7	17
Impedance	240 Ω	180 Ω

MAXIMUM DEPTH RANGE	
50 kHz	**200 kHz**
353 m to 529 m	152 m to 235 m
(1,200′ to 1,800′)	(500′ to 800′)

BEAM DIAMETER VS DEPTH		
Depth	**50 kHz**	**200 kHz**
9 m (30′)	4 m x 3 m (12′ x 10′)	0.9 m x 0.9 m (3′ x 3′)
31 m (100′)	11 m x 10.6 m (38′ x 35′)	3.3 m x 3.3 m (11′ x 11′)
122 m (400′)	47 m x 43 m (156′ x 141′)	13 m x 13 m (42′ x 42′)
305 m (1,000′)	118 m x 107 m (389′ x 353′)	32 m x 32 m (105′ x 105′)

TRANSDUCER COMPARISON			
Model	**Power**	**Rating**	**Performance Increase**
B60 SS60	600 W	Good	Benchmark model for comparison
B164 SS164	**1 kW**	**Better**	**6 times more sensitive at 50 kHz 2 times more sensitive at 200 kHz**
SS264N	1 kW	Best	50 times more sensitive at 50 kHz 13 times more sensitive at 200 kHz

Due to the wide beam of the SS264W, it has been omitted from the table.

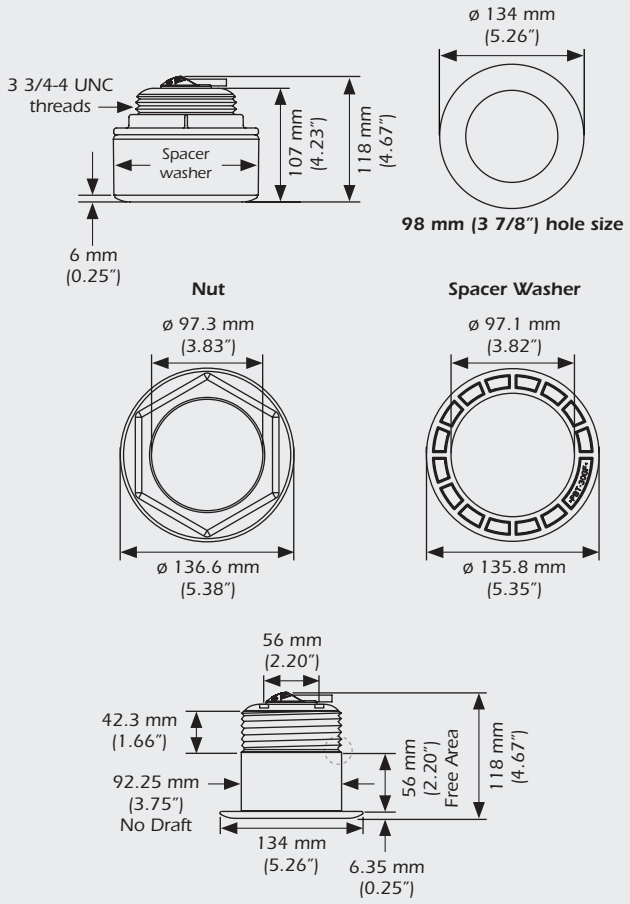
SPECIFICATIONS

Weight: 2.7 kg (6 lb)

Hull Deadrise: Up to 28°

Acoustic Window: Urethane

DIMENSIONS



AIRMAR® TECHNOLOGY CORPORATION
Sensing Technology

ISO CERTIFIED