



# Model DBS-1000



## Featuring:

XGA video output for uncompromised echogram resolution across an optional 17-inch LCD marine monitor or a commercially available PC display accepting XGA format (1024x768 pxl.) with VGA connector input.

Digital receiver design based on leading-edge DSP technology, offering superbly defined image resolution, wide-dynamic range sonar echogram previously unavailable with traditional analog circuit designs.

Operating frequency is selectable between **130kHz – 210kHz** in 0.1kHz steps depend on fishing style and desired detection range.

Beam angle is 8° to 12° degree depend on selected operating frequency, it become wider beam angle when selecting lower frequency.

Operating mode include sonar mode (Full circle/sector scanning with off centering), side scanning (bottom scanning) and echo sounder modes each mode shown across full screen area or split screens with simultaneous presentation of system parameter setting or timewise compressed sounder mode echogram.

8-search/depth ranges are user-definable in selection scale range between 10-3000 meters or 30-9000 footage 10-1600 fathoms, 10-2000 braccia.

Built-in transducer stabilizer enabling the energy beam stay locked onto a moving target of interest.

Automatic soundome retraction initiated by the ship exceeding a present speed limit (ex. 10 knot) with an external GPS speed data of RMC or VTG sentence.

Audio output of sonar pings for remotely monitoring target detection via a optional speaker at a convenient location away from the sonar display in cabin, eliminating the need to constantly keep a watch on the sonar screen.

NMEA0183 input/output data interface are available with external GPS data, Compass Heading Sensor etc. Measurement data sentence output are also available such as MTW, TTL, DPT, DBT sentences.

Supports a ubiquitous USB memory drive for storage of hard-earned operational settings you cannot afford to lose or software update when available from your dealer.

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## SPECIFICATIONS

Frequency:	130 to 210 kHz (0.1 kHz step)
Operating Modes:	Sonar, Bottom (Side) Scanning, Echo Sounder
Search/Depth Ranges:	8 user-definable ranges from 0-3000m, 30-9000ft, 10-1600fm, 10-2000br range
Transmit Power:	Approx. 1.5 kW (max.)
Beam Width:	8° to 12° (depend on setting frequency)
Gain Control Offset:	10, 20, 30, 40 dB
TVG Curves:	10Log R, 20Log R, 30Log R, 40Log R
Receiver Passbands:	Selectable in 5 steps
Recommended Trunk:	146 mm (6") inside diameter (user/shipyard-supplied)
Hoist Pipe Length:	1681 mm (standard), 1981 or 3000 mm (option)
Soundome Diameter/Travel:	142 mm/200 to 400 mm
Hoisting Speed:	Approx. 12 seconds for 400 mm travel at 24 VDC
Scanning Speed (360°):	3.3 sec/20m, 4.8 sec/100m, 7.3 sec/200m, 12.2 sec/400m at 20° step
Scan Sector Widths:	5° to 360° / 10° to 360° in 8 steps for 5° -10° -step scan
Beam Tilt Angle:	+5° to -90° with max. stabilizer control range of 25°
Interface Ports:	NMEA-0183, USB (FAT32), Audio (20W max. into 4Ω)
Power Supply:	12/24V DC (10.8 to 31.2V DC, floating ground)
Current Drain (Standby):	Hull Unit: max. 2.9A/24V DC, Control Unit: max. 2.9A/24V DC
Weight (Control /Keyboard/Hull) :	Approx. 3.6 kg/1.0kg/35 kg (hoist, soundome, junction box included)

NOTE: Specifications are subject to change without notice or obligation.

