

# 2000 SERIES

## COMBINED SIDE SCAN SONAR & SUB-BOTTOM PROFILING SYSTEM

### FEATURES

- Fully integrated turnkey system
- Digital telemetry over single coaxial tow cable up to 6,000m
- Choice of side scan and sub-bottom frequencies
- Built-in heading, pitch and roll sensors

### APPLICATIONS

- Archeological Surveys
- Geological/Geophysical Surveys
- Sediment Classification
- Cable and Pipeline Surveys
- Pre/Post Dredging Surveys
- Scour/Erosion Investigation
- Marine Construction Surveys



The 2000 Series combines EdgeTech's highly successful line of side scan sonars and sub-bottom profilers into one fully integrated system.

The system comes with a choice of two different towfish; either the 2000-CSS or 2000-DSS. The CSS comes with a low frequency 500 Hz – 12 kHz sub-bottom profiler and is designed for applications that require greater sub-bottom penetration in depths of up to 300m. The DSS comes with a higher frequency 2 – 16 kHz sub-bottom profiler and is designed for applications that require higher resolution sub-bottom imagery in depths of up to 2,000m. Both towfish come with the choice of either a 100/400 kHz or 300/600 kHz dual simultaneous frequency CHIRP side scan sonar which will provide an excellent combination of range and resolution.

A standard 2000 Series System comes complete with a combined towfish, digital telemetry that runs over a single coaxial cable up to 6,000 meters long and a 19 inch rack mount topside processor running EdgeTech's DISCOVER acquisition software. Additionally, the 2000 Series System can be integrated with a number of auxiliary sensors such as magnetometer, depth, altitude and USBL responder.



2000-CSS

For more information please visit [EdgeTech.com](http://EdgeTech.com)

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### KEY SPECIFICATIONS

SIDE SCAN SONAR		
Frequency (dual simultaneous CHIRP)	100/400 kHz	300/600 kHz
Operating Range	100 kHz: 500 meters/side 400 kHz: 150 meters/side	300 kHz: 230 meters/side 600 kHz: 120 meters/side
Beam Width (2-way) & Along Track Resolution	100 kHz: 1.08 deg or 1.90 m @ 100 m 400 kHz: 0.56 deg or 0.96 m @100 m	300 kHz: 0.6 deg or 1.0 m @ 100 m 600 kHz: 0.26 deg 0.45 m @ 100 m
Across Track Resolution	100 kHz: 6.3 cm 400 kHz: 1.8 cm	300 kHz: 2.8 cm 600 kHz: 1.4 cm
SUB-BOTTOM PROFILER		
	2000-CSS	2000-DSS
Frequency Band	500 Hz – 12 kHz	2-16 kHz
Resolution	8-20 cm	6-10 cm
Penetration in coarse sand	20m	6m
Penetration in clay	200m	80m
TOWFISH		
	2000-CSS	2000-DSS
Length	160 cm	145 cm
Width	124 cm	74 cm
Height	47 cm	84 cm
Weight	210 kg	145 kg
Maximum Water Depth	300m	2,000m
TOPSIDE PROCESSOR		
Hardware	Standard 19" rack	
Operating System	Windows XP	
Display	Dual 22" high resolution flat panel monitors	
Archive	DVD-R/W and/or LAN connection	
File Format	Native JSF or XTF for side scan, SEG-Y for sub-bottom	
Output	Ethernet	
Power Input	90 to 132 VAC and 180 to 260 VAC, Auto voltage detect and switching, 47-63 Hz	
Tow Cable		
	Double-armored coaxial, customer specified length	

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