

2400 SERIES DEEP TOWED SIDE SCAN SONAR & SUB-BOTTOM PROFILING SYSTEM

I FEATURES

- Fully integrated turnkey system
- · Digital telemetry over single coaxial or fiber optic tow cable
- · Analog & digital channels for usersupplied sensors
- Built-in heading, pitch and roll sensors
- Plug 'n' Tow™ factory tested optical sensors available

APPLICATIONS

- Geohazard Surveys
- · Geological/Geophysical Surveys
- Cable and Pipeline Surveys
- · Route Surveys
- · Archeological Surveys



IV-D TOWFISH



EdgeTech's 2400 Series is a fully integrated combined side scan sonar & sub-bottom profiling system designed for deep water operation in depths up to 6,000m.

The 2400 can be completely configured by the user to best suit the applications at hand. The system comes with a dual simultaneous frequency side scan sonar with a choice of 75 kHz, 120 kHz or 410 kHz frequencies; any of which can be paired together. The 2400 also comes with the choice of a wideband sub-bottom profiler. Frequency options for the sub-bottom profiler are 1-10 kHz, 2-16 kHz or 4-24 kHz.

A multitude of additional optional sensors can also be integrated with the 2400 System for additional data collection. Many of these sensors are Plug 'n' Tow™ which means they have been tested by EdgeTech and the product manufacturer to ensure that both systems will work seamlessly together. Some typical Plug 'n' Tow™ sensors include magnetometer, USBL acoustic tracking system, swath bathymetry, CTD, motion sensing, etc. with others also available.

A standard 2400 System comes complete with a 19" rack mount topside processor, EdgeTech's DISCOVER acquisition software, a choice of towfish depending on max depth requirements, and a customer-specified length of coaxial or fiber optic tow cable.



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KEY SPECIFICATIONS

SIDE SCAN SONAR	I	DW-75/410		DW-120/410		
Frequency (dual simultaneous CHIRP)		75 & 410 kHz		120 & 410 kHz		
Operating Range	75 kHz: 600 m/ 410 kHz: 150 m			120 kHz: 400 m/side		
				410 kHz: 150 m/side		
Horizontal Beam Width (1-way @-3dB)		75 kHz: 1.3°		120 kHz: 1.1° 410 kHz: 0.75°		
		410 kHz: 0.75°				
Vertical Beam Width (1-way @-3dB)						
Along Track Resolution	75 410	75 kHz: 8.2m @500m		120 kHz:4.15m @300m 410 kHz: 0.94m @100m		
	410			410 kHz: 0.94m @100m		
Across Track Resolution		75 kHz: 10 cm		120 kHz: 6.25 cm		
		410 kHz: 1.8 cm		410 kHz: 1.8 cm		
Depression Angle		10° to 20° from horizontal, adjustable				
SUB-BOTTOM PROFILER	■ DW-106		DW-216		DW-424	
Frequency Band	1-6 kHz		2-16 kHz		4-24 kHz	
Resolution	9-25 cm		6-10 cm		4-8 cm	
Penetration in coarse sand	20		6		2	
Penetration in clay	200		80		40	
TOWFISH	<u> </u>	DT-1 TV-D)	
Length		305 cm (120")		226 cm (89")		
Width		92 cm (36")		81 cm (32")		
Height		104 cm (41")		55 cm (22")		
Weight in Air	9	910 kg (2,000 lbs.)		250 kg (550 lbs.)		
Weight in Saltwater	Po	Positively buoyant		137 kg (300 lbs.)		
Depth Rating		Choice of 3,000m or 6,000m housing (other depths optional)				
Options		Depressor, 50 meter umbilical, emergency recovery system (acoustic release, RDF, strobe light)				
TOPSIDE PROCESSOR	1					
Hardware		19″ Rack 3U				
Operating System		Windows XP				
Display		Dual 21" 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		105-230 VAC auto sensing, 50-60 Hz				
TOW CABLE						
Туре		Coaxial or fiber optic				
Max Length		10,000m for coaxial, no limit on fiber optic				
SYSTEM OPTIONS	Magnetometer, m	Magnetometer, multi-beam swath bathymetry, CTD, motion sensing, USBL acoustic tracking system, custom sensors				

For more information please visit <a>EdgeTech.com