2400 SERIES

DEEP TOWED SIDE SCAN SONAR & SUB-BOTTOM PROFILING SYSTEM

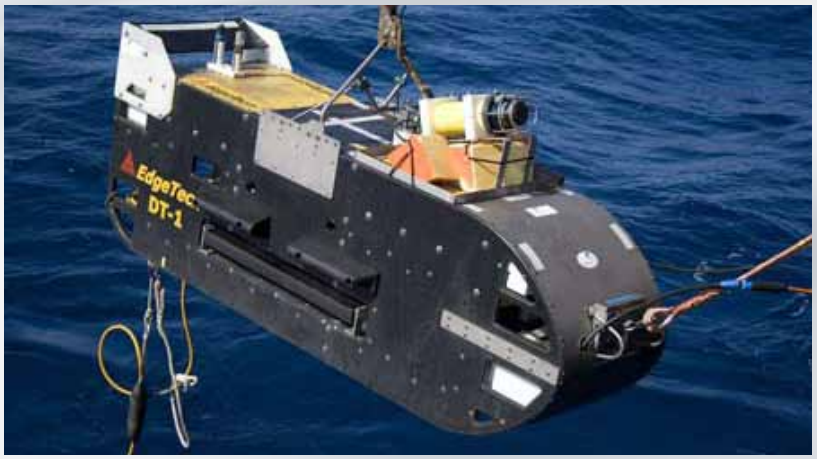
FEATURES

- Fully integrated turnkey system
- Digital telemetry over single coaxial or fiber optic tow cable
- Analog & digital channels for user-supplied 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

TV-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	DW-75/410	DW-120/410
Frequency (dual simultaneous CHIRP)	75 & 410 kHz	120 & 410 kHz
Operating Range	75 kHz: 600 m/side 410 kHz: 150 m/side	120 kHz: 400 m/side 410 kHz: 150 m/side
Horizontal Beam Width (1-way @-3dB)	75 kHz: 1.3° 410 kHz: 0.75°	120 kHz: 1.1° 410 kHz: 0.75°
Vertical Beam Width (1-way @-3dB)	75°	
Along Track Resolution	75 kHz: 8.2m @500m 410 kHz: 0.94m @100m	120 kHz:4.15m @300m 410 kHz: 0.94m @100m
Across Track Resolution	75 kHz: 10 cm 410 kHz: 1.8 cm	120 kHz: 6.25 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	1-10 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	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	910 kg (2,000 lbs.)	250 kg (550 lbs.)
Weight in Saltwater	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	
Hardware	19″ Rack 3U
Operating System	Windows® 7
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	
Type	Coaxial or fiber optic
Max Length	10,000m for coaxial, no limit on fiber optic

SYSTEM OPTIONS	Magnetometer, multi-beam swath bathymetry, CTD, motion sensing, USBL acoustic tracking system, custom sensors

For more information please visit EdgeTech.com

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