

3200-XS SUB-BOTTOM PROFILING SYSTEM

*For customers who
are serious about
the substructure.*



Standard SB-512i Tow Vehicle



EdgeTech Model 3200-XS
Topside Processor

The *EdgeTech 3200-XS Sub-bottom Profiling System* is a high-resolution wideband Frequency Modulated (FM) sub-bottom profiler utilizing EdgeTech's proprietary Full Spectrum chirp technology. The system transmits a FM pulse that is linearly swept over a full spectrum frequency. The acoustic return received at the hydrophones is passed through a pulse compression filter, generating high-resolution images of the sub-bottom stratigraphy in oceans, lakes, and rivers.

Because the FM pulse is generated by a digital to analog converter with a wide dynamic range and a transmitter with linear components, the energy, amplitude, and phase characteristics of the acoustic pulse are precisely controlled. This precision results in high repeatability and signal definition required for sediment classification.

Several stable, low drag tow vehicles are available that contain wide band transmitter arrays and sensitive line array receivers that can operate in water depths up to 300 meters. The selection of tow vehicle depends on the sub-bottom characteristics and resolution required.

Features:

- Unequaled images
- 20-30 dB improved SNR over conventional sub-bottom profilers
- SEG-Y and/or native JSF data file formats
- Full Spectrum chirp processing

Applications:

- EEZ Resource development
- Geo-technical surveys
- Geological studies
- Hazard surveys
- Environmental site investigations
- Sediment classification
- Mining and dredging surveys
- Bridge and shoreline scour surveys

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Key Specifications

SB-512i Tow Vehicle

Frequency Range	500 Hz - 12 kHz
Pulse Type	FM
Standard Pulse Bandwidths/Length (other custom pulses available)	2 -12 kHz / 20 ms, 2-10 kHz / 20 ms, 2-8 kHz / 40 ms, 1.5-7.5 kHz / 40 ms, 1-6 kHz / 40 ms, 1-5 kHz / 40 ms, 0.5-5 kHz / 40 ms
Vertical Resolution (depends on pulse selected)	8 - 20 cm
Penetration (typical) in coarse calcareous sand / in clay	20 / 200 meters
Beam Width (depends on center frequency)	16° - 32°
Transmitters	2
Receive Arrays	4
Size (centimeters)	160 (L) x 124 (W) x 47 (H)
Weight	190 kg
Cable Requirements	3 shielded twisted pairs
Max Depth (meters)	300
Tow Speed	3 - 4 knots optimal, 7 knots maximum safe operation

System Options

SB-216S or SB-424 tow vehicles (see EdgeTech website for specs)

Specifications subject to change without notice.



Optional SB-216S Tow Vehicle



Optional SB-424 Tow Vehicle

Other EdgeTech Products

✓ Side Scan, Sub-bottom, Integrated and Modular Imaging Systems for Deep Towed, AUV, ROV and Other Applications utilizing Full Spectrum, MultiPing or Synthetic Aperture Acquisition and Processing Techniques.



E-MAIL: INFO@EDGETECH.COM WEB: WWW.EDGETECH.COM
MA (USA) TEL (508) 291-0057 FL (USA) TEL (561) 995-7767