

# 4200 SERIES

## SIDE SCAN SONAR SYSTEM

### FEATURES

- Optional Multi-Pulse (MP) technology for high speed surveys
- Crisp, high resolution CHIRP images
- Multiple dual simultaneous frequency sets to choose from
- Choice of stainless steel or lightweight aluminum towfish
- Easily integrates to other 3rd party sensors
- Meets IHO & NOAA Survey Specifications

### APPLICATIONS

- Cable & Pipeline Surveys
- Geological/Geophysical Surveys
- Mine Countermeasures (MCM)
- Geohazard Surveys
- Channel Clearance
- Search and Recovery
- Archeological Surveys



The 4200 Series is a versatile side scan sonar system that can be configured for almost any survey application from shallow to deep water operations. The 4200 utilizes EdgeTech's Full Spectrum® CHIRP technology to provide crisp, high resolution imagery at ranges 20-30% greater than non-CHIRP systems; thus allowing customers to cover larger areas and save money spent on costly surveys.

One of the unique features of the 4200 is the optional Multi-Pulse (MP) technology, which places two sound pulses in the water rather than one pulse like conventional side scan sonar systems. This allows the 4200 to be towed at speeds of up to 10 knots while still maintaining 100% bottom coverage. In addition, the MP technology will provide twice the resolution when operating at normal tow speeds, thus allowing for better target detection and classification ability.

A 4200 system comes with a choice of a dual simultaneous frequency towfish available in either a stainless steel or lightweight aluminum housing depending on operational requirements. Customers can also choose between a rack mount or portable topside processor or a digital link to interface to 3rd party topsides and software.



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

[info@EdgeTech.com](mailto:info@EdgeTech.com) | USA 1.508.291.0057

# 4200 SERIES

## SIDE SCAN SONAR SYSTEM

### KEY SPECIFICATIONS

| SONAR SPECIFICATIONS          | STANDARD                                                                                                                                          | WITH OPTIONAL MP TECHNOLOGY                                                                                                                                                                                   |                          |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Frequency                     | Choice of either 100/400, 300/600 or 300/900 kHz dual simultaneous                                                                                |                                                                                                                                                                                                               |                          |
| Operating Range (meters/side) | 100 kHz: 500m, 300 kHz: 230m, 400 kHz: 150m, 600 kHz: 120m, 900 kHz: 75m                                                                          |                                                                                                                                                                                                               |                          |
| Horizontal Beam Width:        | 100 kHz: 1.5°, 300 kHz: 0.5°, 400 kHz: 0.4°, 600 kHz: 0.26°, 900 kHz: 0.2°                                                                        | In High Speed Mode: 100 kHz: 1.26°, 300 kHz: 0.54°, 400 kHz: 0.4°, 600 kHz: 0.34°, 900 kHz: 0.3°<br><br>In High Definition Mode: 100 kHz: 0.64°, 300 kHz: 0.28°, 400 kHz: 0.3°, 600 kHz: 0.26°, 900 kHz: 0.2° |                          |
| Resolution Along Track        | 100 kHz: 5 m @ 200 m<br>300 kHz: 1.3 m @ 150 m<br>400 kHz: 0.6 m @ 100 m<br>600 kHz: 0.45 m @ 100 m<br>900 kHz: 18 cm @ 50 m                      | 100 kHz: 2.5m @ 200m<br>300 kHz: 1.0m @ 200m<br>400 kHz: 0.5m @ 100m<br>600 kHz: 0.45m @ 100m<br>900 kHz: 18 cm @ 50m                                                                                         |                          |
| Resolution Across Track       | 100 kHz: 8 cm, 300 kHz: 3 cm, 400 kHz: 2 cm, 600 kHz: 1.5 cm, 900 kHz: 1 cm                                                                       |                                                                                                                                                                                                               |                          |
| Vertical Beam Width           | 50°                                                                                                                                               |                                                                                                                                                                                                               |                          |
| Depression Angle              | Tilted down 20°                                                                                                                                   |                                                                                                                                                                                                               |                          |
| TOWFISH                       | STAINLESS STEEL                                                                                                                                   | ALUMINUM                                                                                                                                                                                                      |                          |
| Diameter                      | 11.4 cm (4.5 inches)                                                                                                                              |                                                                                                                                                                                                               |                          |
| Length                        | 125.6 cm (49.5 inches)                                                                                                                            |                                                                                                                                                                                                               |                          |
| Weight in Air/Saltwater       | 48 / 36 kg (105 / 80 pounds)                                                                                                                      | 30 / 18 kg ( 66 / 40 pounds)                                                                                                                                                                                  |                          |
| Depth Rating (Max)            | 2,000m                                                                                                                                            | 500m                                                                                                                                                                                                          |                          |
| Standard Sensors              | Heading, pitch & roll                                                                                                                             |                                                                                                                                                                                                               |                          |
| Optional Sensor Port          | (1) Serial – RS 232C, 9600 Baud, Bi-directional & 27 VDC                                                                                          |                                                                                                                                                                                                               |                          |
| Options                       | Pressure Sensor, Magnetometer, Integrated USBL Acoustic Tracking System, Built-in Responder Nose, Depressor, Power Loss Pinger and Custom Sensors |                                                                                                                                                                                                               |                          |
| TOPSIDE PROCESSOR             | 4200-P                                                                                                                                            | 4200                                                                                                                                                                                                          | 701-DL INTERFACE         |
| Hardware                      | Portable splash-proof case                                                                                                                        | 19" rack mount computer                                                                                                                                                                                       | 19" rack mount interface |
| Display & Interface           | Splash-proof laptop                                                                                                                               | 21" flat panel monitor, keyboard & trackball                                                                                                                                                                  | Customer-supplied        |
| Power Input                   | 20-36 VDC or 115/230 VAC                                                                                                                          | 115/230 VAC                                                                                                                                                                                                   | 115/230 VAC              |
| Operating System              | Windows© XP Pro                                                                                                                                   |                                                                                                                                                                                                               |                          |
| File Format                   | Native JSF or XTF                                                                                                                                 |                                                                                                                                                                                                               |                          |
| Output                        | Ethernet                                                                                                                                          |                                                                                                                                                                                                               |                          |
| TOW CABLE                     | Coaxial Kevlar or double-armored up to 6,000m, winches available                                                                                  |                                                                                                                                                                                                               |                          |

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

[info@EdgeTech.com](mailto:info@EdgeTech.com) | USA 1.508.291.0057