

4700

LONG RANGE HIGH SPEED SIDE SCAN SONAR SYSTEM

FEATURES

- Enhanced resolution at long range
- High speed data collection
- Four times as many hits on a target compared to multi-beam systems
- Flexible system design allows for operation in towed, AUV or ROV deployment
- Dual frequency

APPLICATIONS

- High Speed/Long Range Surveys
- Hydrographic Surveys
- Geophysical Surveys
- Cable and Pipeline Surveys
- Pre/Post Dredging Surveys



The 4700 is an advanced high speed, high resolution, long range side scan sonar system. The system utilizes EdgeTech's Multi-Pulse technology to place up to four coded pulses into the water at the same time. This translates into a four times increase in survey speeds while still maintaining 100% bottom coverage or a four times increase in hits on the target for improved imaging at standard survey speeds.

In addition to Multi-Pulse technology, the 4700 also utilizes dynamically focused transducers which provide enhanced high resolution imagery at long range. Combine the Multi-Pulse technology for speed, and dynamically focused transducers for resolution, and you meet or exceed the specifications of a multi-beam side scan sonar. This is achieved without some of the limitations of multi-beam side scan such as degraded images in turns.

The 4700 comes with a 300/600 kHz dual frequency towfish. The 300 kHz frequency is a standard single pulse frequency which can be used for long range search capability. The 600 kHz frequency utilizes Multi-Pulse and dynamically focused transducers for very high resolution imagery at long range/ high speed. The system comes standard with a towfish, rack mount topside processor and customer-specified length of tow cable for operation in up to 300m of water.



For more information please visit EdgeTech.com

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KEY SPECIFICATIONS

SONAR SPECIFICATIONS		
Frequency	300 kHz single pulse	600 kHz Multi-Pulse Dynamically Focused
Pulse Type	Frequency Modulated Pulse (CHIRP)	
Pulse Length	4 to 20 ms	2 to 10 ms
Resolution (along track)	30 cm to 60 m then increasing to 80 cm at 200 m, Beam width = 0.23°	< 20 cm to 80 m then increasing to 28 cm at 125 m max. range
Resolution (across track)	1 Pulse only = 3 cm	1 pulse 1.5 cm / PL 2 msec 2 pulse 3.0 cm / PL 4 msec 3 pulse 4.5 cm / PL 6 msec 4 pulse 6.0 cm / PL 10 msec
Max Operating Range	250 m/side (500m swath)	125 m/side (250m swath)
Operating Speed Envelope	2-6 knots typical	2-14 knots
Sonar Digitization	16 Bits	
Power	115/230 VAC at 200W max	
TOWFISH		
Length	173 cm (68 in.)	
Diameter	19 cm (7.5 in.)	
Weight	60 kg (132 lbs.)	
Array Length	123 cm (48 in.)	
Depth Rating	300 meters	
Standard Sensors	Heading, pitch, roll, temperature & pressure	
Options	Altimeter, Responder, Magnetometer, USBL Tracking System, Custom Sensors	



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