MULTIBEAM SIDE SCAN SONAR
SEAVIEW 400 SERIES
www.sonartech.com
The SeaView 400 Series are specially designed for military side scan sonar system applied to multi beam technology. We have the history of providing one of the best quality high resolution imaging in this industry.

On each side of a towfish or AUV/ROV, the SeaView 400 simultaneously generates multi beam with advanced beam forming techniques and shows an extremely sharp along track resolution even when being towed at high speed with full bottom coverage.

**Product Intro**

- Multi-beam dual frequency Side Scan Sonar
- High speed operation with full bottom coverage
- Triple prevented function of loss
- The most high resolution image
- Motion / Depth / Altimeter equipped
- Military Standard & Non Magnetic Option

**Key Features**

- Geographical surveys
- Route surveys
- Q-route surveys
- Mine & Sub-marinne hunting
- Shipwreck & Airplane location
- Pipeline & Offshore surveys
- AUV & ROV version available
- Search & Recovery

**Applications**

**Scan Image**
## TECHNICAL SPECIFICATION

<table>
<thead>
<tr>
<th>Model name</th>
<th>SeaView 490MD</th>
<th>SeaView 400M</th>
<th>SeaView 400MP</th>
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</thead>
</table>
| **Number of Beams** | 3 beams-455kHz  
1 beam-900kHz | 5 Beams per side                | 3 Beams per side                  |
| **Frequency**   | 455kHz & 900kHz                   | 455kHz                            | 455kHz                             |
| **Pulse Length**| 10µsec~600µsec (CW)  
100µsec~10ms (Chirp) | 10µsec~600µsec (CW)  
100µsec~10ms (Chirp) | 10µsec~600µsec (CW)  
100µsec~10ms (Chirp) |
| **Along Track Resolution** | 10cm @ 38m  
20cm @ 75m  
40cm @ 150m | 10cm @ 38m  
20cm @ 75m  
40cm @ 150m | 10cm @ 38m  
20cm @ 75m  
40cm @ 150m |
| **Across Track Resolution** | 1.75cm @ minimum pulse length | 3.5cm @ minimum pulse length | 3.5cm @ minimum pulse length |
| **Operating Range** | Max 150m @ 455kHz, 75m @ 900kHz | Max 150m | Max 150m |
| **Tow Speed**   | Max 12 knots                      | Max 15 knots                      | Max 12 knots                      |
| **Operating Depth** | Max 300m (deep depth optional) | Max 300m (deep depth optional) | Max 300m (deep depth optional) |
| **Towfish Sensors** | Motion, Depth, Altimeter | Motion, Depth, Altimeter | Motion, Depth, Altimeter |
| **Tow Cable**   | Armored Coaxial Cable with Winch | Armored Coaxial Cable with Winch | Kevlar Coaxial, Reel with Slip Ring |
| **Option**      | Depressor                          | Depressor                         | Armored Coaxial Cable with Winch, Depressor |
| **Size**        | 1,850m(L) x 210mm(D)              | 1,850mm(L) x 168mm(D)             | 1,300mm(L) x 138mm(D)             |
| **Weight**      | 85kg +/-10% (in air)              | 85kg +/-10% (in air)              | 35kg +/-10% (in air)              |
**MULTIBEAM SIDE SCAN SONAR**

_SeaView 400 series_ is a military grade side scan sonar system that is used to efficiently create high resolution images of large areas of the seabed or riverbed on high speed vessel. Sonartech provides three kinds of multi-beam side scan sonars, one is multi-beam dual frequency, another is multi-beam (5 beams) and the third is multi-beam (3 beams). Each system can be used according to the end-user's application.

**Acquired Images by Multibeam Side Scan Sonar**

- Artificial Fish Reef
- Sunken Bridge
- Sunken Tree

**Application of Side Scan Sonar**
# Tranceiver Control Unit

Deck control unit controls the parameters of signal processing and receives the data from towfish to make 2-D image and display on the monitor with other information.

- Portable Case or 19" rack-mount (optional)
- Navigation: GPS / DGPS (Compatible with user GPS)

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# Electric or Hydraulic Winch

Multi beam side scan sonar can be towed with armored cable by using hydraulic / electric winch. Winch supplies optimized slip ring with tow device for towfish.

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# Depressor

Depressor wing can be mounted on the towfish and creates a significant downward force that overcomes drag and pulls the tow cable downward as the wing moves through the water.