

THE LEADER OF  
UNDERWATER TECHNOLOGY



# MULTIBEAM SIDE SCAN SONAR

SEAVIEW 400 SERIES



# MULTIBEAM SIDE SCAN SONAR

## SEAVIEW 400 SERIES



### Product Intro

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.

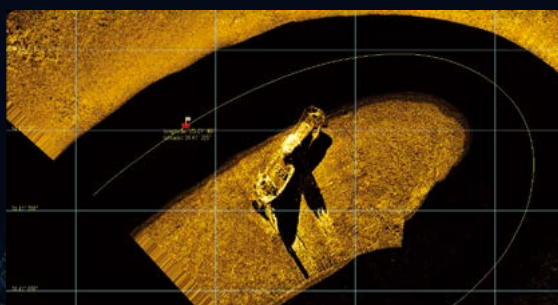
### Key Features

- 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

### Applications

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

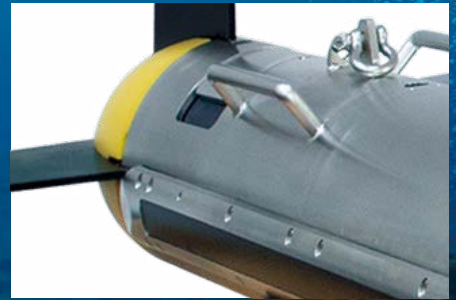
### Scan Image



# MULTIBEAM SIDE SCAN SONAR

Side Scan Sonar

## SeaView 490MD



### ▶ TECHNICAL SPECIFICATION

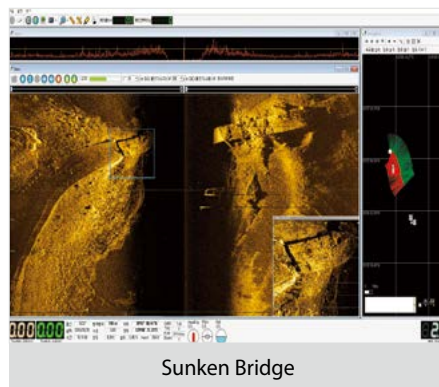
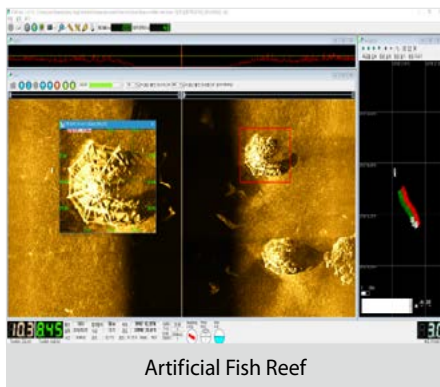
Model name	SeaView 490MD	SeaView 400M	SeaView 400MP
Number of Beams	3 beams-455kHz 1 beam-900kHz	5 Beams per side	3 Beams per side
Frequency	455kHz & 900kHz	455kHz	455kHz
Pulse Length	10μsec~600μsec (CW) 100μsec~10ms (Chirp)	10μsec~600μsec (CW) 100μsec~10ms (Chirp)	10μsec~600μsec (CW) 100μsec~10ms (Chirp)
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)



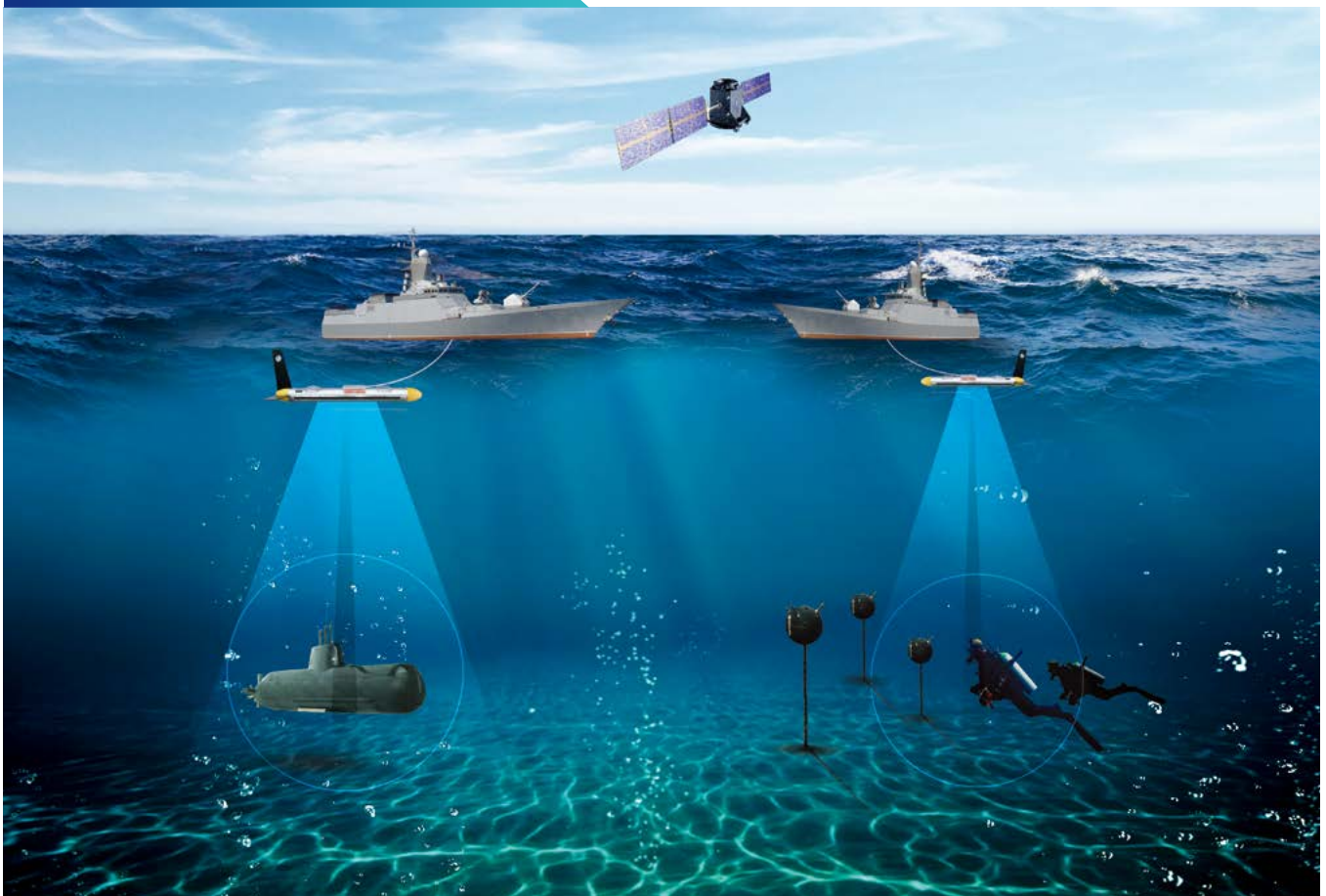
# MULTIBEAM SIDE SCAN SONAR

**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



## Application of Side Scan Sonar



# CONSTITUTION

## Tranceiver Control Unit

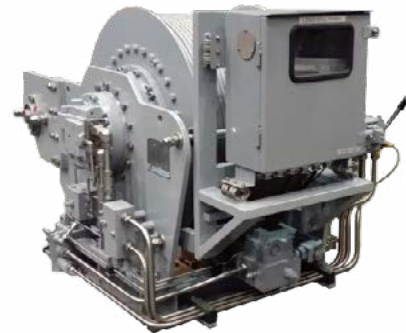
Deck control unit controls the parameters of signal processing and receives the data from towfish to make 2-D image and display on the monitor with other information.

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



## 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.



## 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.



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