

THE LEADER OF   
UNDERWATER TECHNOLOGY

# SIDE SCAN SONAR

S-150 SERIES



# SIDE SCAN SONAR SERIES

## SONARBEAM S-150 SERIES



### Product Intro

SonarBeam® has supplied various side scan sonar systems from single, dual to multi beam. SonarTech invites you to SonarBeam® world dreaming of powerful and valuable frontier in the fields of underwater sonar equipment.

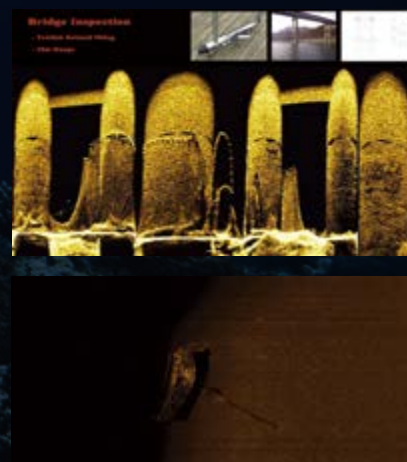
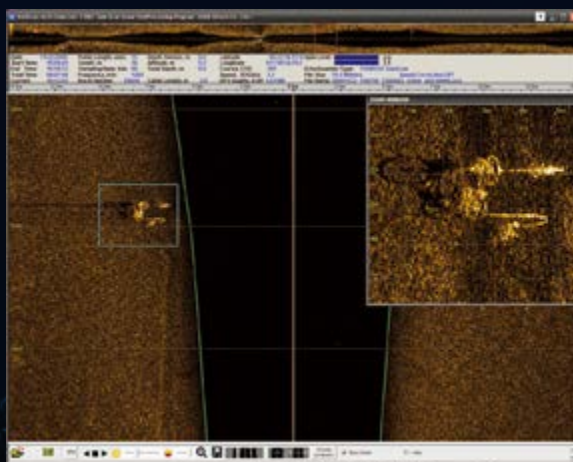
### Key Features

- Price competitiveness
- The most high resolution images
- Portable topside processor
- Compatible with 3<sup>rd</sup> party software
- Real time post processing mosaic software
- Motion / Depth / Altimeter equipped
- Frequency : Dual 100 / 400, 400 / 900, 400 / 1250kHz

### Applications

- Geographical & route survey
- Shipwreck & airplane location survey
- Pipeline & offshore survey
- Search & Recovery

### Scan Image



# SIDE SCAN SONAR SERIES

Side Scan Sonar

## S-150P



Side Scan Sonar

## S-150A



Side Scan Sonar

## S-150D



### Safety Recovery System

- Safety Pin : up to 200kg shear strength
- Tail Fins : Detachable when being bumped or obstructed.
- Pinger as Underwater Location System

### ▶ Ultra-Light Weight Towfish

Size	900 × Ø89 (mm)
Weight	12 kg (in air) / 8.5 kg (in water)
Single Frequency	400, 900, 1,250 kHz
Dual Frequency	400 / 900, 400 / 1,250 kHz
Maximum Depth	100 m
Beam Tilt	20 degree down fixed

### ▶ Light Weight Towfish

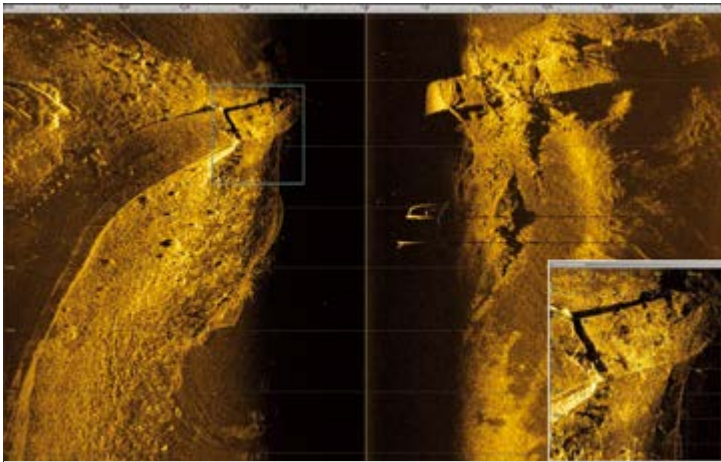
Size	1,026 × Ø89 (mm)
Weight	16 kg (in air) / 10.5 kg (in water)
Single Frequency	400, 900, 1,250 kHz
Dual Frequency	400 / 900, 400 / 1,250kHz
Maximum Depth	300 m
Beam Tilt	10, 20, 30 degree down adjustable
Altimeter Sensor	200 kHz, 20 deg

### ▶ Deep Water Towfish

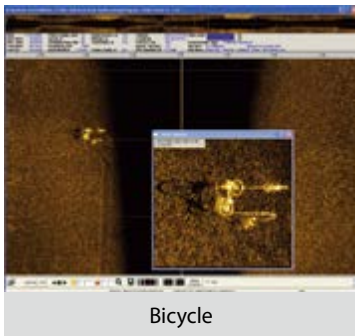
Size	1,360 × 112 (mm)
Weight	32 kg (in air) / 25.5 kg (in water)
Single Frequency	100, 400, 900, 1250 kHz
Dual Frequency	100 / 400, 400 / 900, 400 / 1250kHz
Maximum Depth	300 m
Beam Tilt	5, 10, 15, 20, 25 degree down adjustable
Altimeter Sensor	200 kHz, 20 deg

Material	Stainless Steel
Beam Angle	100kHz : 1.2deg(H), 40deg(V) 400&900kHz : 0.3deg(H), 40deg(V) 1,250kHz : 0.3deg(H), 30deg(V)
Transmission Pulse	100 kHz : 50~200 μs, 400 kHz : 25~150 μs, 900 kHz : 15~50 μs, 1,250 kHz : 10~25 μs
Swath (Max.)	100 kHz : 1,000 m, 400 kHz : 300 m, 900 kHz : 100 m, 1,250 kHz : 60 m
Depth Sensor	0.5% Full Scale
Motion Sensor	Heading, Pitch, Roll

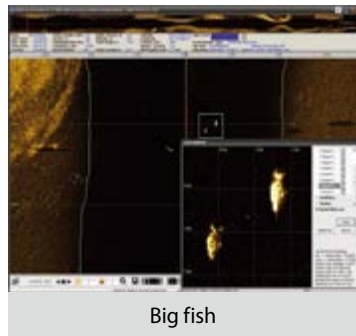
# SONAR OPERATING SOFTWARE



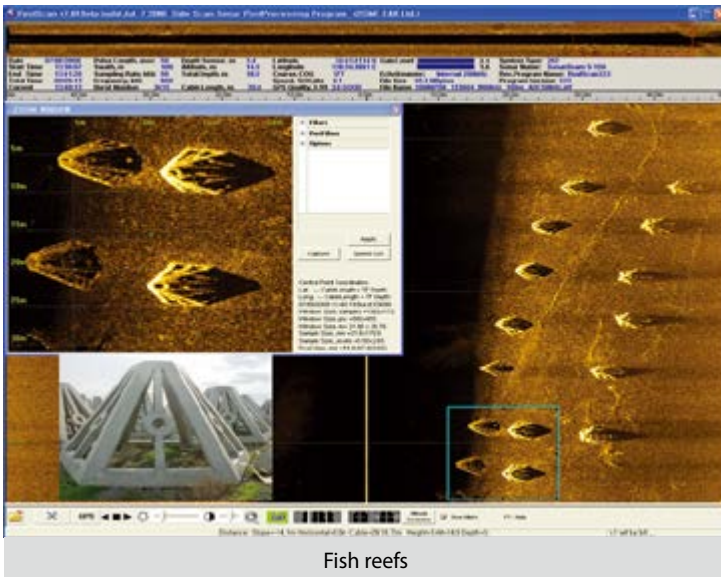
Sunken Bridge



Bicycle



Big fish



Fish reefs



Survey Route Planner



Google Earth Mosaic

## ▶ REALSCAN®

### SonarBeam Real Time Operating S/W

- RealScan® is the software of SonarBeam Side Scan Sonarsystems which serve as the data acquisition and display in real-time signal output from the towfish.
- Operating System : Windows 7, 8, 10

- Show the Towfish's Course
- Automatic Gain Control Function
- Real-Time support the Towfish's Depth, Altitude Information
- Real-Time support the Towfish's Motion Info (Roll, Pitch, Heading)
- Image Filtering & Target Marking
- Transducer Protection Function
- XTF File Format & GPS & Target Image (JPG, PNG)
- Survey Routes Planner & Screenshot Function

## ▶ POSTSCAN®

### SonarBeam Post-Processing S/W

- PostScan® is post-processing software and makes it possible to analyze the acquired sonar data.
- Operating System : Windows 7, 8, 10

- Mosaicking & Partial Mosaicking Function
- User can control the resolution of mosaic image
- Varied Mosaic Output Format (PNG, BMP, JPG, TIF)
- KML file & Geo Tiff file Support
- Support the text file of recorded Towfish information (Towfish's Coordinate, Altitude, Depth, Speed information etc.)
- Towfish Course Filter Function & Altitude Line Correction Function
- Target 1x1 scale Image Capture
- XYZ Mosaic & Image Save Function
- Target Measurement & Image Zoom Function

## ▶ COMPATIBLE SOFTWARE

SonarBeam Towfish is compatible with Hypack, SonarWiz and GeoDAS

# CONSTITUTION

## Portable Deck 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.

- Weather-tight Pelican Case
- Navigation : GARMIN GPS (Compatible with user GPS)



Hand-held Reel



Portable Battery Box



## Interface Control Unit

- Weather-tight Case
- Navigation : GARMIN GPS
- Compatible with user GPS



Tow Cable



Depressor Wing

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