

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.

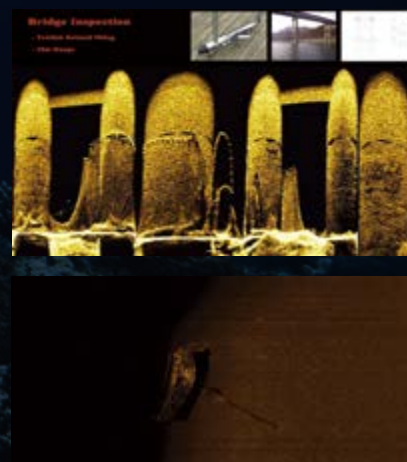
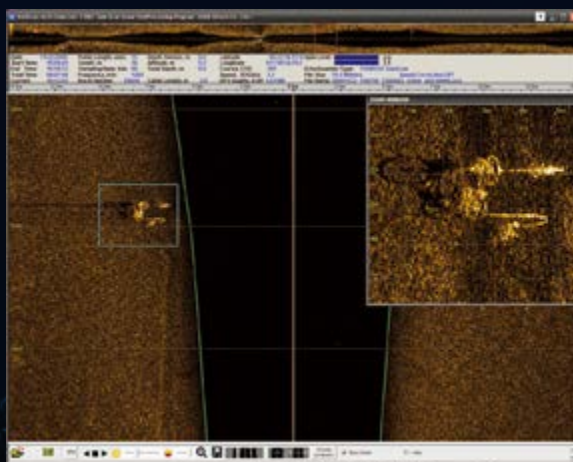
Key Features

- Price competitiveness
- The most high resolution images
- Portable topside processor
- Compatible with 3rd 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

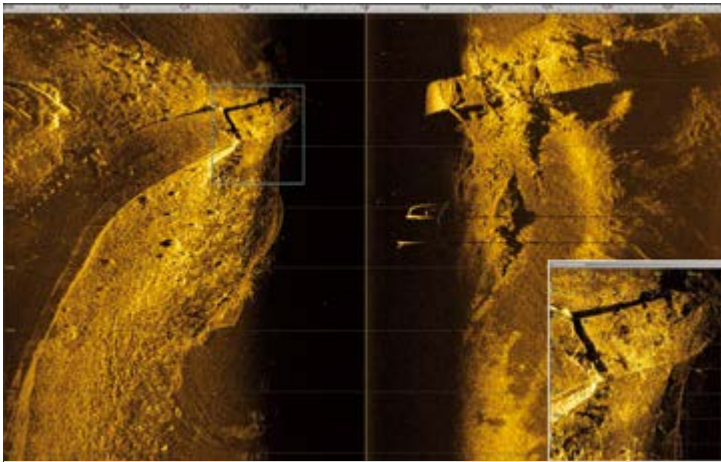
Size	1,026 × Ø89 (mm)
Weight	16 kg (in air) / 10.5 kg (in water)
Single Frequency	400, 900, 1,250 kHz
Dual Frequency	400 / 900, 400 / 1,250kHz
Maximum Depth	300 m
Beam Tilt	10, 20, 30 degree down adjustable
Altimeter Sensor	200 kHz, 20 deg

▶ Deep Water Towfish

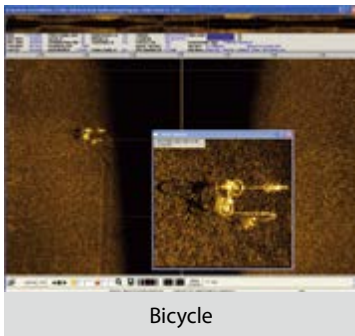
Size	1,360 × 112 (mm)
Weight	32 kg (in air) / 25.5 kg (in water)
Single Frequency	100, 400, 900, 1250 kHz
Dual Frequency	100 / 400, 400 / 900, 400 / 1250kHz
Maximum Depth	300 m
Beam Tilt	5, 10, 15, 20, 25 degree down adjustable
Altimeter Sensor	200 kHz, 20 deg

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

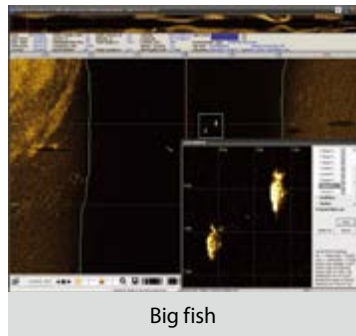
SONAR OPERATING SOFTWARE



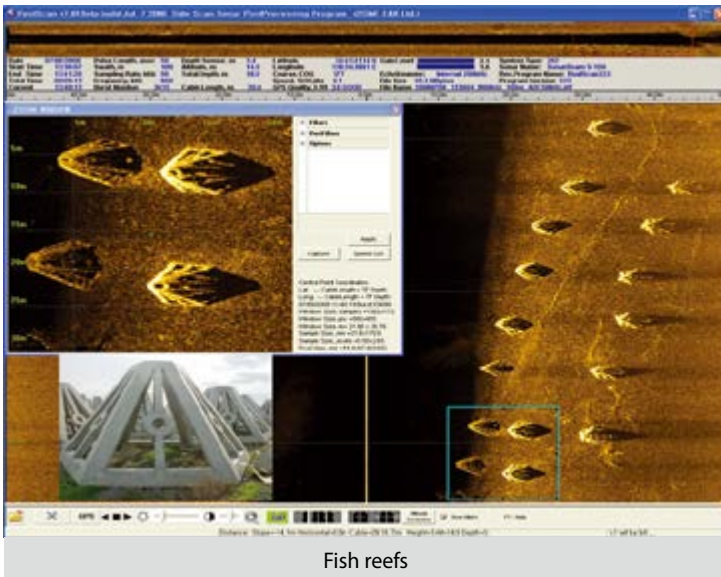
Sunken Bridge



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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