

## Side Scan Sonar

SonarBeam® - single, dual and multibeam side scan sonar systems for commercial and military applications, with a history of providing some of the best quality high-resolution imaging in the industry.



- Single Frequency: 100, 400, 900, 1250kHz
- Dual Frequency: 100/400, 400/900, 400/1250kHz
- Multi Beam: 455kHz (3, 5 beams)
- Portable topside processor
- Safety Pin: Up to 200 kg Shear Strength,
- Compatible with Hypack/GeoDas/SonarWiz
- Real time post-processing mosaic software
- Kevlar reinforced tow cable
- Motion / Depth / Altimeter sensor
- Location Beacon

### RealScan

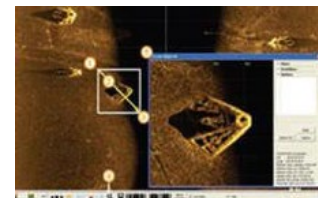
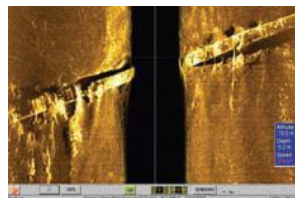
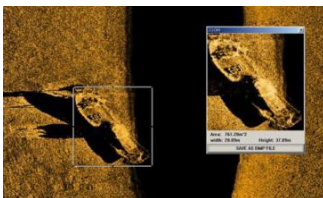
#### SonarBeam Real Time Operating Software

- Operating System: Windows
- Shows the towfish course
- Automatic gain control function
- Real-Time support of depth and altitude.
- Real-Time support of Roll, Pitch & Heading)
- Image filtering & target marking
- Transducer protection function
- XTF file format & GPS & target image (JPG, PNG)
- Survey route planner & screenshot function

### PostScan

#### SonarBeam Post-Processing Software

- Mosaic & Partial Mosaic function
- User control of the mosaic image resolution
- Various mosaic outputformats (PNG, BMP, JPG, TIF)
- KML file & GeoTiff file support
- Text file support of recorded towfish information (Coordinates, altitude, depth, speed etc.)
- Course filter & altitude line correction functions
- Target 1x1 scale image capture
- XYZ mosaic & image save function
- Target measurement & image zoom function



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PART	S-150P	S-150A	S-150D	400MP	400M
Towfish					
Material	Stainless Steel			Aluminium	Stainless Steel
Size	900×ø89 (mm)	1,026×ø89 (mm)	1,360×ø112 (mm)	1,200×ø122 (mm)	2,000×ø160 (mm)
Weight	12 kg (in air)	16 kg (in air)	32 kg (in air)	35 kg (in air)	85 kg (in air)
Frequency	<ul style="list-style-type: none"> <li>▪ Single Frequency: 400 , 900, 1250 kHz</li> <li>▪ Dual Frequency: 400/900, 400/1250 kHz</li> </ul>		<ul style="list-style-type: none"> <li>▪ Single:100, 400, 900, 1250 kHz</li> <li>▪ Dual:100/400, 400/900, 400/1250 kHz</li> </ul>	<ul style="list-style-type: none"> <li>▪ Multi Beam: 455kHz (3 beams)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Multi Beam: 455kHz (5 beams)</li> </ul>
Transducer Radiation	<ul style="list-style-type: none"> <li>▪ 100 kHz: 1.2 degree (H), 40 degree (V)</li> <li>▪ 900 kHz: 0.3 degree (H), 40 degree (V)</li> </ul>			<ul style="list-style-type: none"> <li>▪ 400 kHz: 0.3 degree (H), 40 degree (V)</li> <li>▪ 1,250 kHz: 0.3 degree (H), 30 degree (V)</li> <li>▪ 455 kHz: 0.23 degree (H), 45 degree (V)</li> </ul>	
Beam Tilt	20° down	10, 20, 30° down	5, 10, 15, 20, 25° down	20° down	
Pulse	100 kHz: 50 ~ 200 $\mu$ s, 400 kHz : 25 ~ 150 $\mu$ s, 900 kHz : 15 ~ 50 $\mu$ s, 1250 kHz :10 ~ 25 $\mu$ s, 455 kHz: 50 ~ 200 $\mu$ s (CW/Chirp)				
Swath (Max.)	100 kHz: 1000 m, 400 kHz: 300 m, 900 kHz: 100 m, 1250 kHz: 60 m, 455 kHz: 300m				
Altimeter	N/A	200 kHz, 20 deg.		200 or 400kHz, 20 deg.	
Depth Sensor	±0.5% Full Scale				
Towing Speed	2 ~ 8 knots			Up to 12 knots	Up to 16 knots
Operating Depth	100 m	300 m		500 m (2000m option)	
Safety Pin	Up to 200 kg				