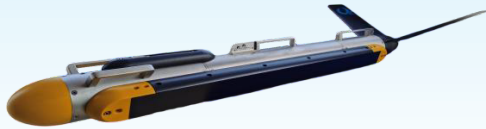




Shark-S150T Tri Frequency Side Scan Sonar

www.lcsonar.com



Low power consumption

Tri frequency combination

Wide scanning range

High resolution images

Shark S150T tri frequency side scan sonar is a multi frequency and multi-function sonar suitable for shallow and deep water measurement. It has three frequencies of 150Khz, 450Khz and 900Khz, and can be combined freely. It is equipped with Chirp FM signal processing technology as standard, which can not only achieve a wide range of scanning, but also ensure ultra-high resolution imaging.

The system includes strong pressure resistant stainless steel towfish, high strength Kevlar cable, waterproof deck unit and independent OTech sonar software. The system is designed with ultra-low power consumption, which can be powered by either AC or battery inverter.

The structure of the towing is reliable and durable, and it can be handled by a single person. It can be used for towing, bottom installation and sideboard fixing. The design of underwater towing overload protection pin can effectively protect the impact and ensure the underwater safety of the towing. Hydrodynamic design ensure more stable towing posture.

Autonomous OTech software has functions of real-time image mosaic, sonar image display, line planning and navigation, trace tracking and coverage display, data recording and playback, target management and export, multi-window display of sensor information, etc. Self-adaptive equalization technology of sound image to make sure of consistent display of remote and near images. The software has few parameters, simple operation and friendly UI human interface. It can output data in standard XTF format, support third-party post-processing software processing, and can be customized according to specific requirements.

Advantageous features

- * Three frequencies at the same time to accommodate more measurement scenarios;
- * Chirp FM signal and CW continuous pulse signal can be switched online in real time;
- * Built-in motion sensor for real-time display of underwater motion and orientation of the towfish;
- * Built-in single beam echo sounder to accurately track the height of the towfish from the bottom;
- * 316 Stainless Steel towfish, 2000 m pressure-resistant, deepwater workabl;
- * OTech Autonomous Multifunction Software updates regularly and free of charge.

Beijing Lcocean Science and Technology Co. Ltd

Address: Room. 1703, Jinyanlong Bldg., Xisanqi, Changping Area Beijing, 100094 China

Tel: 0086-10-60789808 E-mail: zhangkui@lcsonar.com <http://www.lcsonar.com/en.html>



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Industry applications

- Military applications, anti-mine search and target sweeping
- Marine channel management, scanning of sunken ships and falling containers
- Classification and analysis of Marine Geology and geophysical investigation
- Archaeological investigations, underwater ancient cities and wreck searches
- Investigation of routing for laying and maintenance of cables, pipes, etc.
- Subsea topographic survey of new energy sites such as wind power
- Examination of underwater hydraulic structures such as power stations and dams.

Model	Shark-S150T
Working frequency	150kHz / 450kHz ; 450kHz / 900kHz
Signal type	LFM (linear frequency modulation) / CW
Maximum Range	450m @150kHz, 150m @450kHz, 75m @900kHz
Beam opening angle	Level: 0.6 degrees @ 150kHz, 0.2 degrees @ 450kHz; 0.2 degrees @ 900kHz Vertical: 50 degrees
Resolution	Track resolution: 0.01h (range) @ 150kHz, 0.003h (range) @ 450kHz&900kHz; Vertical Track Resolution: 1cm
Transducer mounting angle	Horizontal downward inclination 10 degree, 15 degree, 20 degree adjustable, factory installed 20 degree
Maximum operating depth	2000m
Standard built-in sensor	Sounder sounder, motion meter (pitch, roll, azimuth), pressure sensor
Towfish size/weight	1264mm * 105mm (L * D)/34kg (in air)
Deck unit size/weight	210mm*150mm*50mm / 1.5kg
Power consumption	220/110VAC, average 45W
Sonar software OTech	Windows system, supporting NMEA 0183 positioning and navigation format data input; It can output OTSS and XTF data at the same time
Towline	Kevlar reinforcing cable, standard length: 50m (customizable)

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