

## iSide 400/1400/4900

Model	iSide 1400	iSide 4900	iSide 400
Picture			
Frequency	100kHz & 400kHz	400kHz & 900kHz	400kHz
Pulse width	20~1000μs (CW), 1ms~4ms (LFM)	20~1000μs (CW), 1ms~4ms (LFM)	20~500μs (CW), 0.5ms~2ms (LFM)
signal types	CW/LFM	CW/LFM	CW/LFM
Horizontal beam angle	0.7°@100kHz, 0.2°@400kHz	0.2°@400kHz, 0.2°@900kHz	0.3°
Vertical beam angle	45°	45°	45°
Beam tilt	10°, 15°, 20° optional	10°, 15°, 20° optional	15°
Range resolution	2.5cm@100kHz, 1.25cm@400kHz	1.25cm	1.25cm
Maximum range	600m@100kHz, 200m@400kHz	200m@400kHz, 75m@900kHz	200m
Work speed	2-6kn	2-6kn	2-6kn
Depth rating	1000m	1000m	100m
Demension	105mm*1300mm	105mm*1170mm	105mm*767mm
Weight	30kg (316#Stainless steel)	26kg (316#Stainless steel)	13kg (316#Stainless steel)
Power	MAX 40W	MAX 30W	MAX 15W, 220VAC/12VDC
Inner Sensor	Attitude, heading, presure, depth sensor	Attitude, heading, presure, depth sensor	/
Cable	Kevlar cable, standard 50m (250m optional)	Kevlar cable, standard 50m (250m optional)	Kevlar cable, standard 50m (250m optional)



AUTHORIZED DISTRIBUTION PARTNER

19N106

### Hi-Target Surveying Instrument Co. Ltd

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## iSide 1400/4900/400

Side Scan Sonar System



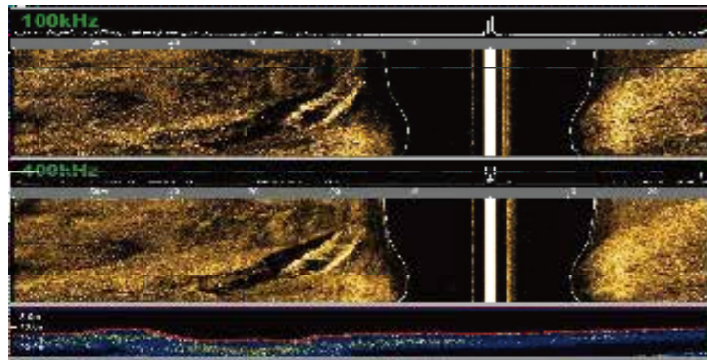
# iSide 1400/4900/400

## The Multiple frequencies Side Scan Sonar Systems

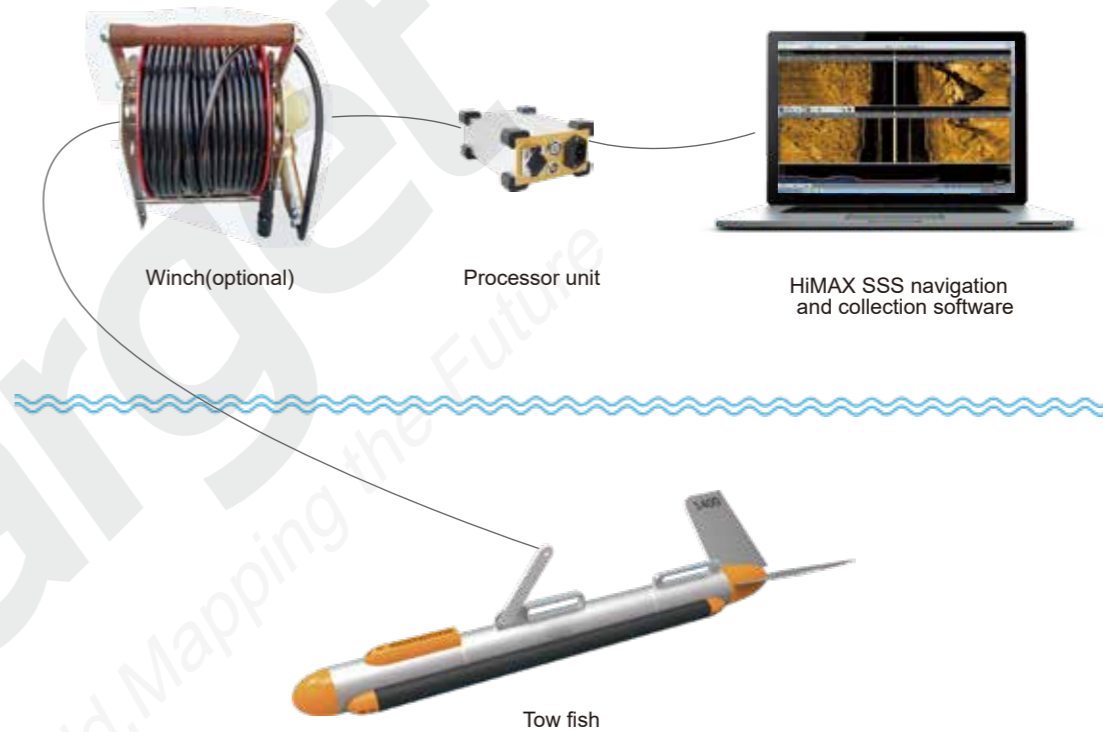
With the possibility to switch freely between CW and CHIRP on multiple frequencies, at 100kHz, 400kHz or 900kHz, the iSide side scan sonar system provides a clearer view of the water bottom on dual simultaneous frequency, for object searching, dredging, and other industry applications.

The 1400 series is a versatile high-resolution side scan sonar system which can emit CW&CHIRP pulses of 100KHZ& 400KHZ simultaneously. Joint with Hi-Target patented algorithm, the advanced digital circuit processing technology provides users with remarkable high resolution or large range underwater imagery widely applied in cable&pipeline surveys, geological&geophysical surveys, mine countermeasures, channel clearance, search and recovery, archaeological surveys.

All iSide 1400 systems are comprised of a sturdy stainless steel towfish, waterproof topside processor and HIMAX SSS software. Multiple sensors are internal in towfish with data real-time displayed in HIMAX SSS. Integrated with low power consumption design, the power supply can be either AC or battery. With the portable and compact structure, towfish can be easily operated by single operator.



## Composition of side scan sonar system



## Applications

**Multiple Frequency Available**  
 There are multiple frequencies available to use according to required applications. 100/400kHz, 400/900kHz and 400kHz, users can always find a suitable mode.

**Real-time CW & CHIRP Transmitting Mode Switching**  
 Real-time switching provides an adaptive solution for users, while the anti-noise performance is improved, the resolution higher and the range longer.

**Multiple Internal Sensors**  
 By integrating the sensor for heading, pitch, roll, depth and pressure, images are corrected in real time and related reference information can be acquired to ensure operational safety.

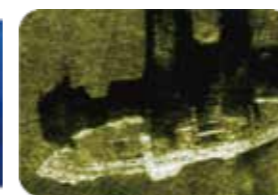
**Ultra Small Beam Angle**  
 Beam angle can be up to 0.2°, providing resolution up to 1.25cm, so it is easy to recognize smaller objects.

**Strong and Robust Tow Fish**  
 Adopting a fluid mechanics design, the 316 stainless steel housing can help the tow fish endure even 1000m depths.

**Meets IHO & NOAA Survey Standard**



Mine-Like Target Detection



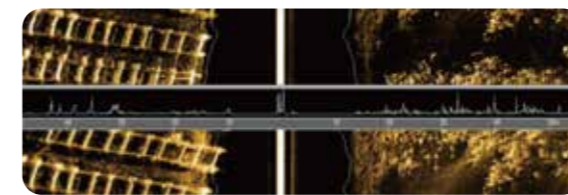
Shipwreck Hunting



Aircraft wreckage search



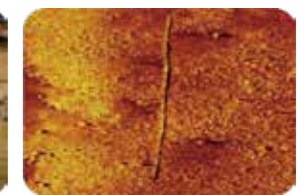
Personnel search and rescue



Geological/geophysical survey and mapping



Fishery Habitat surveys



Cable & pipeline surveys