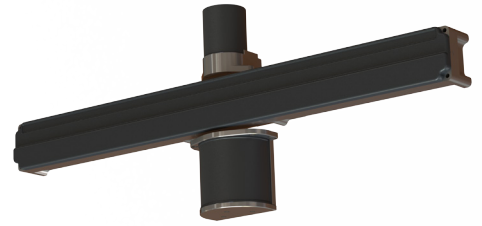


Teledyne RESON

# SeaBat 7123-MkII

## Triple-Frequency Forward-Looking Sonar



The new SeaBat 7123-MkII is an advanced, COTS-based, high resolution sonar suitable for both commercial and military applications.

Commercial uses include super high resolution imaging for underwater inspection related tasks, long range detection of object in the water column and the sonar can be used as a platform for scientific and oceanographic research applications.

Naval uses include the use of the sonar as a component in Mine Countermeasure (MCM) systems for detection of Mine Like Objects (MLOs) and the SeaBat 7123-MkII is potentially suitable for retrofit or upgrade of existing mine hunting platforms. The SeaBat 7123-MkII can maximize platform safety by increasing the stand-off range.

Operation at three different frequencies provides optimum flexibility:

- Low Frequency (100kHz) mode provides visualization and detection of objects in the water column and on sea floor to ranges up to 800m or more.
- Medium Frequency (200kHz) mode is typically used for high accuracy localization in surveyed areas, and primary detection in shallow waters and reverberant environments.
- High Frequency (400kHz) mode provides high resolution shadow classification data during offshore underwater inspection and MCM usage.

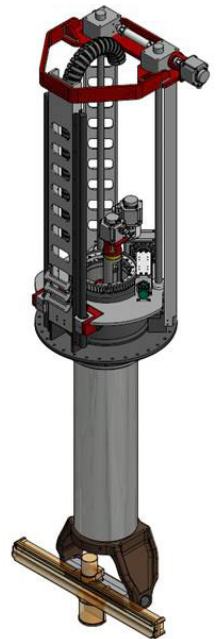
The SeaBat 7123-MkII can be mounted on most platforms, including AUV's, ROV's and surface vessels. The ensonification ahead of the platform is up to 120° degrees.



Subsea Sonar Processor (SSP)

Hoist solution:  
Tilt Limits: +10°/-30°  
Rotate Limits: 190°  
Operating Speed: 12 kts max.

SeaBat 7123-MkII  
Customized hoist concept



### PRODUCT BENEFITS

Used in Both Commercial & Military Applications:

- Scientific Surveys
- Offshore Underwater Inspections
- MCM

Usable on a Wide-Range of Platforms

PRELIMINARY

# SeaBat® 7123 MkII

## SEABAT 7123-MkII SYSTEM SPECIFICATIONS

Frequency	100 kHz	200 kHz	400 kHz
Range Resolution	Consistent with Pulse Bandwidth		
Horizontal Coverage	Up to 120°		
Number of Beams	256		
Vertical Beamwidth (nominal)	7°	6°	24°
Pulse Type	CW and FM		
Pulse Length	Up to 25ms (approx.)		
Horizontal Beamwidth (nominal)	0.8°	0.4°	0.2°
Depth Rated	500m		
System Interface	Gbit Ethernet		

## DIMENSIONS

Wet-end array assembly	1200 x 460 x 143mm
Subsea Sonar Processor (SSP)	530 x Ø 174mm

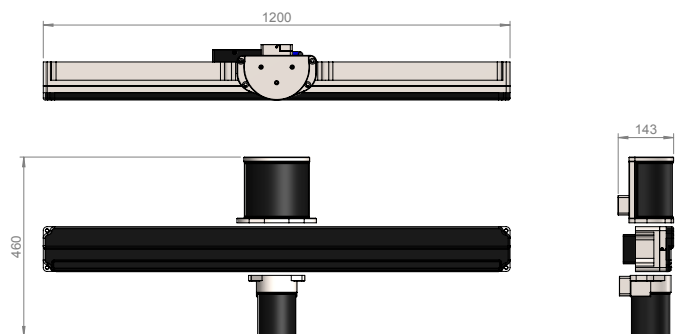
## WEIGHT

Wet-end array assembly	41kg±10kg (air), 25kg±10kg (water)
Subsea Sonar Processor (SSP)	25kg±2.5kg (air), 10kg±2.5kg (water)

## OPTIONS

- 19" rack mount processor
- Internal SSP Data storage up to 2.0TByte
- Fiber Optic Conversion for ROV Installations
- SVP-70 Sound Velocity Probe
- Integrated Logistics Support (ILS)
- Support and maintenance agreements
- Training of technical personnel and operators
- Integration to platform management systems
- 3rd party integration of sensors and data formats

### Wet-end array dimensions (mm):



## PRELIMINARY

For more details visit [www.teledyne-reson.com](http://www.teledyne-reson.com) or contact your local Teledyne RESON Office. Teledyne RESON reserves the right to change specifications without notice. 2016@Teledyne RESON

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