BATHYSWATH

Bathyswath-2 STD

A deck unit application

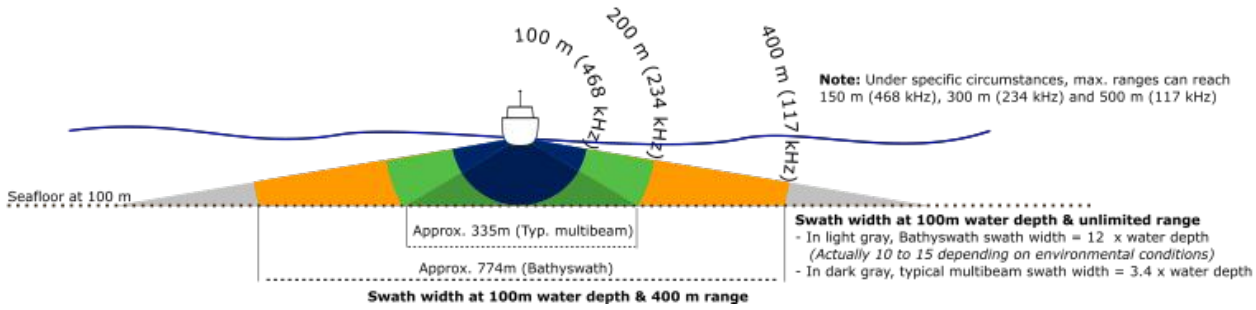
HIGH-DENSITY BATHYMETRY

Performance & Quality

Bathyswath-2 Deck Unit (STD) is the standard version of our bathymetric systems. This sonar system gives improved performance in a small, low-power package and an Ethernet interface. Bathyswath uses wide swath widths; this increases survey speeds significantly, especially in shallow water.

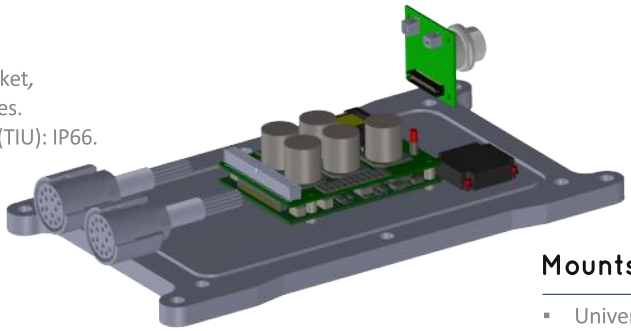
Productivity

Bathyswath uses wide swath widths; this increases survey speeds significantly, especially in shallow water. It has three frequencies: 117, 234 or 468 kHz with respectively 400, 200 and 100m maximum ranges. The US Geological Survey (USGS) said: “Operating swath of the bathymetric system ranged from 15 to 20 times water depth in in depths less than 15m”.



1 or 2 transducers

- Transducer mounting bracket,
- Transducer extension cables.
- Transducer Interface Unit (TIU): IP66.



SWATH software included

Data acquisition, processing & 3D.

Spider cable

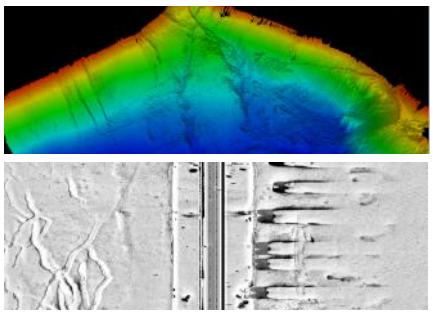
Connections to computer & power.

Mounts (optional)

- Universal Mounting Kit to allow deployment on vessel of opportunity,
- Side Mounting Kit for installation on RIBs.

Software, 3D bathymetry & sidescan data

- Included in package price.
- Fully-functional survey software (for sonar, position, sound velocity and motion data acquisition) and post-processing software (for 3D rendering and digital terrain models).
- Bathyswath sonar is also compatible with most usual commercial software packages.

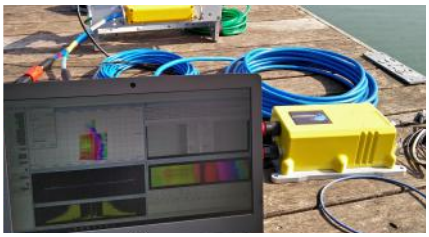


DECK UNIT CONFIGURATION

Deck Unit (DU)

For use on deck or inside the cabin, connected to the transducers, using extension cables, and to the computer & ancillary equipment using a Spider Cable.

- Watertight to IP66.
- Contains Transducer Electronics Module, power supply & cooling fan.



TECHNICAL SPECIFICATIONS

Sonar specifications

Available frequencies (kHz)*	117	234	468
Operational slant range (m)	400	200	100
Maximum slant range (m)**	600	300	150
Minimum depth (m)	0.3	0.2	0.1
Measurement resolution limit (mm)	12	6	3
Resolution detection limit (mm)	6	3	1.5
Across track resolution (cm)	5	2	1
Azimuth beam width (2-way)	0.85°	0.55°	0.55°
Transmit pulse length	17 to 8500 µs	8.5 to 4300 µs	4.3 to 2100 µs
Maximum cable length (m)	50		
Transducer dimensions (mm)	200 x 550 x 70	100 x 340 x 55	60 x 230 x 40
Transducer weight, air/water (kg)	8.6/1.3	5/0.8	1/0.1
Deck Unit dimensions	256 x 155 x 145 mm, 4,2 kg		

** 1 transducer = 1 frequency*

*** Refer to our Bathyswath technical information document (pdf) available on www.iter-systems.com.*

"The quality of the data collected during the trial was high both in terms of coverage and resolution."
- Neil Crossouard - HR Wallingford survey specialist

FROM A TO Z

Sonar systems engineering.

Training on client's site or on lake in front of our premises.

Software development for our own products or for new interfaces with customers systems.

Remote technical support.

A WIDE RANGE OF APPLICATIONS

Marine services | Research | Environment | Natural resources | Archeology | Military REA

Bathyswath a brand of the company ITER Systems

ITER Systems is one of the world's most experienced team of developers of interferometric sonars. Its products are direct descendants of the world's first commercially available interferometric swath sonar system, developed into SWATHplus, which renamed Bathyswath in 2013. Bathyswath-2 was released in 2015, and Bathyswath-3 in 2019 gives yet another significant advance in performance and usability.

ITER Systems provides innovation, quality product at an affordable price, for the international market with high quality technical support. A team of specialized engineers are located in France and in England to answer all your needs.

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