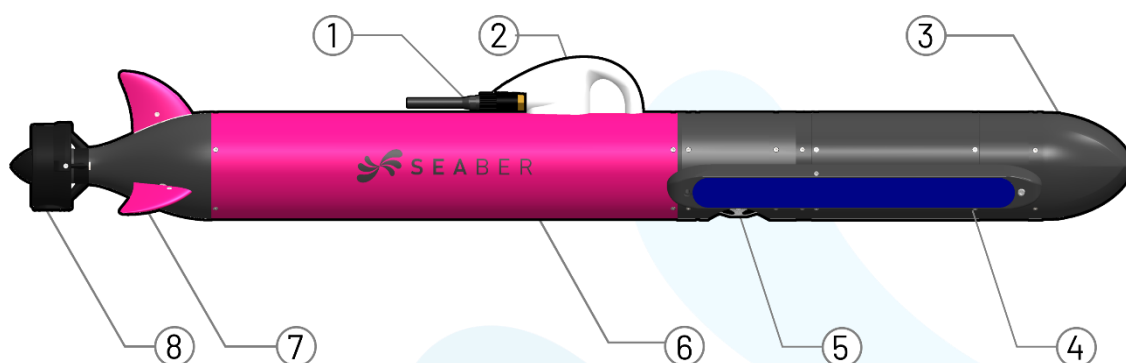


# Datasheet

## YUCO-3DSS

*This document provides further information on the YUCO-3DSS key features.*

YUCO-3DSS is equipped with a 3D Side-Scan Sonar from *Ping DSP*, for high resolution swath bathymetry. It comes with a DVL, to compensate current drift, improve positioning and keep altitude from the sea floor.



1 Start key and charging port

2 Mast (UHF radio communication, GNSS antenna and status LEDs)

3 Nose (wet part for buoyancy foam and payloads)

4 3D Side Scan Sonar

5 DVL (Doppler Velocity Logger)

6 Sealed dry body section which contains Lithium-Ion battery and electronics

7 Fins

8 Propulsion Thruster

## Technical features

Length	110 cm
Body Diameter	12 cm
Weight in air	10 kg
Depth rating	300 m
Speed	2 to 6 knots
Endurance	10 hours @ 3 knots / 6 hours @ 4 knots (with Li-Ion battery)
Navigation accuracy	±2% of distance travelled
Energy	Rechargeable 600Wh/14.8V Li-Ion
Battery Charger	100 to 240 VAC 50 to 60 Hz
Programming interface	SEAPLAN software by SEABER
Surface Communication	LoRa UHF point-to-point communication with SEACOMM device For YUCO status messages and orders 868Mhz frequency range (depends on region)
Accessories	Rugged transport case Spare parts and tools in waterproof bag

## Sensors

DVL	
Model	Waterlinked A50
Frequency	1 MHz
Beam angle	22.5 degrees
Ping rate	4-26 Hz
Max altitude	50 meters
Max velocity	3.75 m/s
Velocity resolution	0.1 mm/s

3D Side Scan Sonar	
Model	3DSS-DX-450 from Ping DSP
Frequency	450 kHz
Range	200m per side (2D), 100m per side (3D)
Horizontal Beam Width	0.4°
Vertical Beam Width	19° - 125°
Max resolution	1.67 cm