

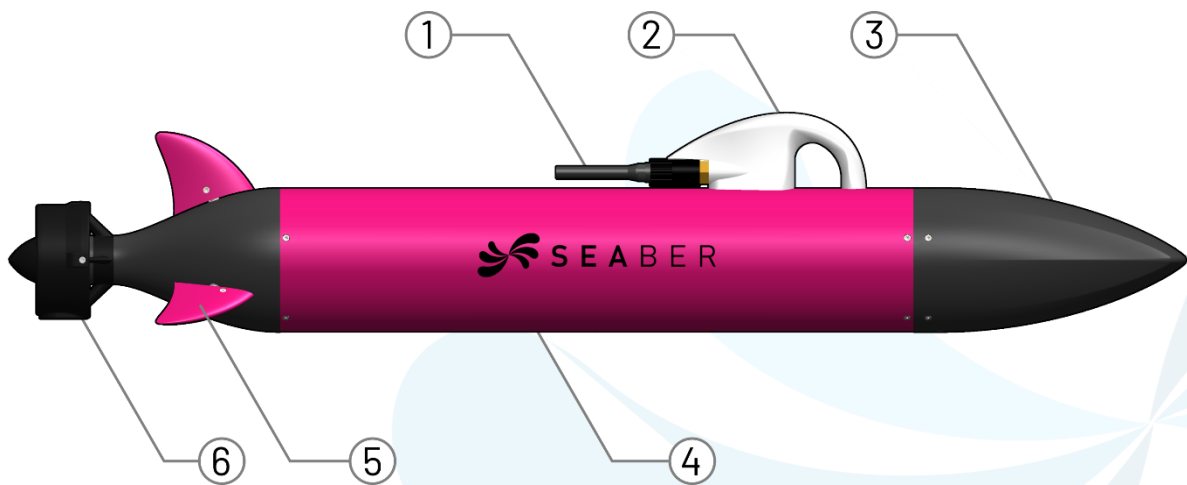
Datasheet

YUCO-CARRIER

This document provides further information on the YUCO-CARRIER key features.

YUCO-CARRIER allows to flexibly implement any type of waterproof sonde or sensor. In option it can come with a DVL, to compensate current, improve positioning and keep altitude from the sea floor. YUCO-CARRIER is available with the following options:

- DVL, to compensate current, improve positioning and keep altitude from the bottom
- NiMH batteries instead of Lithium



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). The nose design is made on request.

4 Sealed dry body section which contains Lithium-Ion battery (or NiMH) and electronics

5 Fins

6 Propulsion Thruster

Technical features

Length	98 cm
Body Diameter	12 cm
Weight in air	8 kg
Depth rating	300 m
Speed	3 to 6 knots
Endurance	10 hours @ 3 knots / 6 hours @ 4 knots (with Li-Ion battery)
Navigation accuracy	±2% of distance travelled with DVL
Energy	Rechargeable 600Wh/14.8V Li-Ion or rechargeable 200Wh/14.4V NiMH
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 (see below) For YUCO status messages and orders 868Mhz frequency range (depends on region) PYCOM LOPY4 chip with available regions: AS923, AU915, EU868, US915, IN865 TX Power: 25mW
Available Accessories	Rugged transport case Spare parts and tools in waterproof bag

All available sensor parameters can be set from the [SEAPLAN](#) software interface.

Sensors

PAYLOAD SECTION		DVL	
Power Supply	12 to 48 V	Model	Waterlinked A50
Communication	RS232, USB, Ethernet	Frequency	1 MHz
Payload diameter	up to ~4inch	Beam angle	22.5 degrees
Payload length	up to 45cm	Ping rate	4-26 Hz
		Max altitude	50 meters
		Max velocity	3.75 m/s
		Velocity resolution	0.1 mm/s



View from below, with the DVL