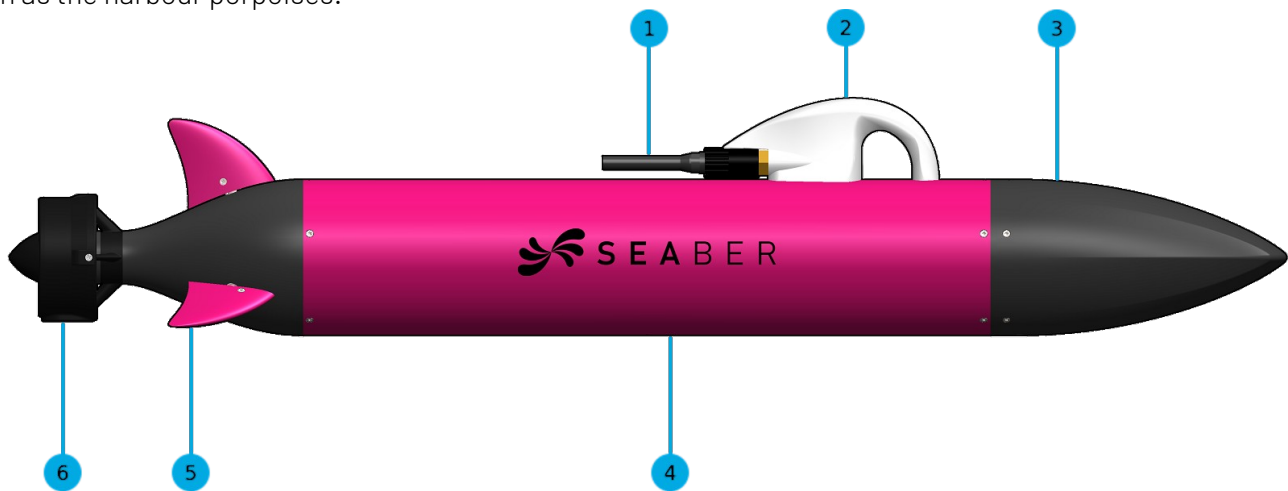


YUCO-PAM

We thank you for your interest shown to our Micro AUV YUCO-PAM. We are pleased to give you further information throughout this document. Its purpose is informing you about all the specifications and advantages of the products constituting your price quotation.

YUCO-PAM micro-AUV just make AUV technology accessible. It is whether capable of performing continuous noise recording while it navigates. It is also capable on specific mode to perform "silent" recordings at determined locations. It can also resurface and take GPS position of each of its recordings. Thanks to its embedded pressure sensor and DVL (optional) YUCO-PAM underwater vehicle can also keep its positions at fixed depth or altitude. Equipped with a **Porpoise Recorder** YUCO-PAM micro-AUV provides, with a great monitoring whether anthropogenic noise such as pile driving, ships, as well as monitoring marine mammal even in the high frequencies such as the harbour porpoises.



1 Start Key.

With its robust mast, YUCO is protected from the first AUV risk: water ingress. It allows UHF radio communication. It also contains **powerful flashing LEDs** allowing smooth deployment and recovery.

2

The nose is the wet part of YUCO. It allows to customize micro-AUV within a specific limit of dimension and weight.

3

4

Sealed dry section containing the battery. YUCO is designed such as the dry section shall never be open **avoiding any risk of water ingress.**

5

Fins are designed to allow a precise navigation.

6

The propeller.

YUCO-PAM micro AUV

Lenght	98 cm
Diameter	12 cm
Weight in air	9 kg
Depth rating	300 m
Speed	2 to 6 knots
Endurance	10 hours at 2.5 knots
Accurate navigation	Better than $\pm 2\%$
Energy	Rechargeable Lithium-Ion or NiHM (on request)
Charging	24 V External Connector
Porpoise Recorder	
Analog bandwidth	160 kHz
ADC	24 Bits Stigma Delta
Dynamic range	110 dB (full Bandwidth)
Configurable Gain	0 dB - 45 dBz
Maximum Sensitivity	- 165 dB Re 1 V/ μ Paz
Data Storage	Up to 4 TB with removable SD card
Settings available	Recording, schedule and duty cycling

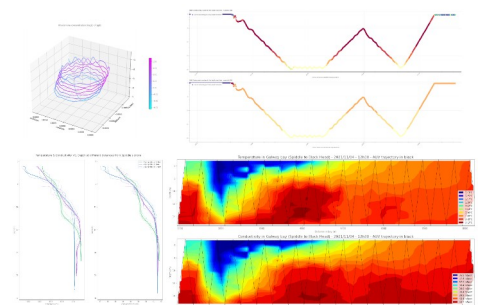
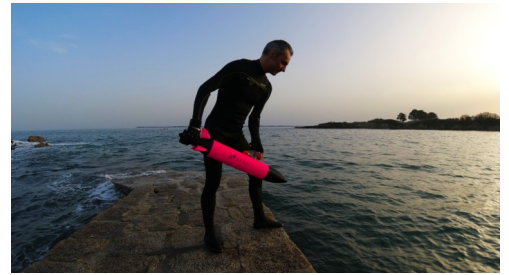
Options

DVL	
Frequency	1 MHz
Max Altitude	50 m
Max Velocity	2.6 m/s
Velocity resolution	0.01 mm/s
Ping rate	4 - 26 Hz
Beam angle	22.5 degrees

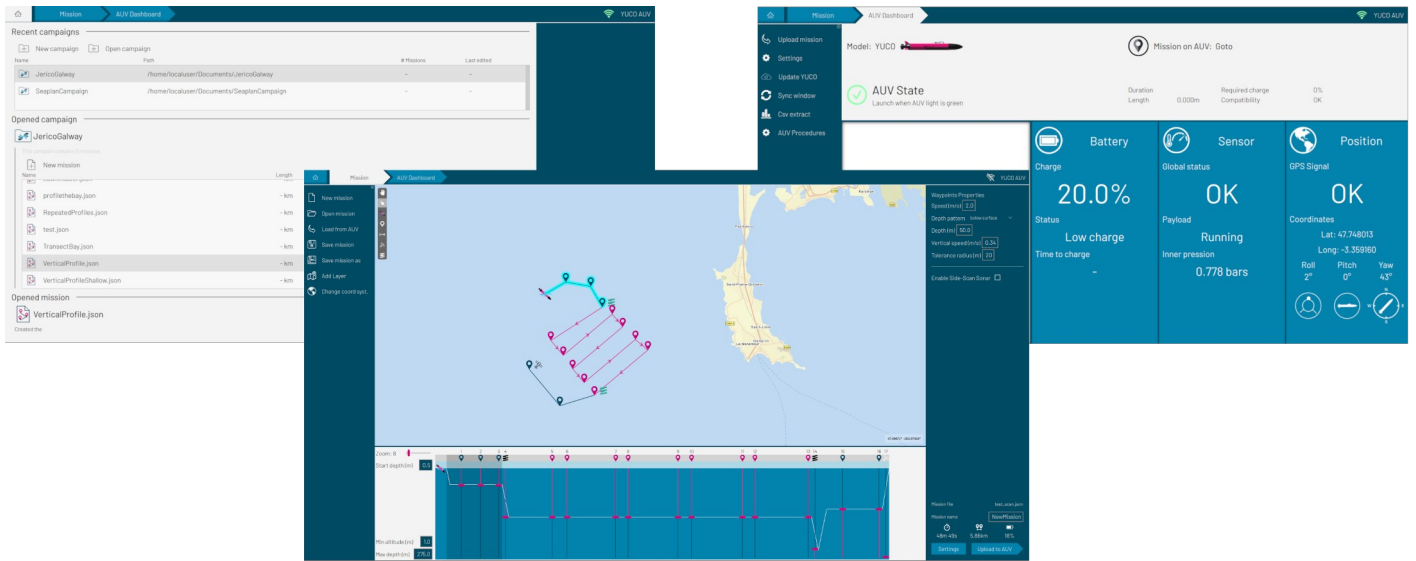


Key Features

-  *Single person deployment and recovery.*
-  *Accurate navigation.*
-  *Easy to use.*
-  *Great autonomy.*



SEAPLAN


















SEAPLAN software developed by SEABER, is an ideal and versatile interface to set up mission and monitor YUCO micro-AUV. It allows to create waypoints and segments fully settable (speed, depth, latitude, longitude, etc) in order to create missions. The AUV Dashboard allows to monitor YUCO micro AUV and to display faults and their resolutions. Logs are exported under .CSV format.

Thanks to its mission programming savings and updates, SEAPLAN facilitates discovery of new area as well as repetitive mission in similar locations.

SEACOMM






SEACOMM is the communication device with YUCO micro-AUV during mission. Communicating by UHF radio, it allows to received and send message from and to YUCO micro-AUV as soon as its mast is out of water. It can give simple pre-register order to YUCO such as "come back here" and displays micro-AUV last know GPS position.

<i>YUCO Accessories</i>			
Start Key with Floating necklace		YUCO Charger	
Ballasts kit to adjust buoyancy		Boathook	
Rugged case with wheels for transport		Foam ber	
<i>SEAPLAN Accessories</i>			
USB key containing SEAPLAN			
<i>SEACOMM Accessories</i>			
SEACOMM device		4 batteries	
<i>Spare parts</i>			
Spare fins		Spare propeller	
<i>Tools kit</i>			
Screws kit		Vacuum pump	
Screwdriver Torx10		Screwdriver	

Why choosing YUCO-PAM ?

YUCO micro-AUV kit is think to be self-efficient:

-  A micro-AUV, **YUCO-PAM**, which is compact and easy to use. Able to down to 300 m depth rated, our micro-AUV can efficiently monitor whether anthropogenic noise such as pile driving, ships, as well as monitoring marine mammal even in the high frequencies such as the harbour porpoises.
-  One software, **SEAPLAN**, to monitor **YUCO**, prepare mission and to retrieve mission data.
-  One communication device, **SEACOMM** to manage each mission with confidence.

As **YUCO**'s dry section should never be open, there is no risk of water ingress due to a bad user closing.