SYPOD: THE NEW, EASY TO LAUNCH, ACOUSTIC BUOY FROM RTSYS

SYPOD is a 45 cm acoustic buoy. It can be autonomous, using solar panels.
© RTsys

Light and easily maneuverable, the latest buoy from RTsys has been designed to simplify acoustic measurements at sea. A first unit was delivered in June 2018.

Less than 10kg with a diameter of 45cm! The dimensions of the SYPOD buoy make it a practical tool for operations of environmental tracking, monitoring of marine mammals, etc. “SYPOD can be launched from the boat bridge and is easily recoverable thanks to the GPS coordinates it transmits” explains Yvan Eustache, product manager for RTsys. Yvan also contributed to the development of the buoy.

Equipped with solar panels, the SYPOD buoy can be used autonomously or cabled, depending on the user’s needs. This buoy has a single channel acquisition system, connected to a hydrophone for underwater acoustical measurements or to another sensor (CTD, turbidity, etc.). The data can be transmitted in real time by WiFi, 4G or radio. For use further offshore, transmission by satellite (Iridium antenna) gives you the possibility of being notified, in real time, of important events (mammal detection, for example) and recover all of the raw data at the end of the mission. Like other RTsys devices, SYPOD has high quality recording with a large bandwidth (3 Hz to 1000 kHz).

After 3 months of development, the first SYPOD buoy will be delivered at the end of May. It will be used by to measure, by acoustics, the sand and rock debris in rivers equipped with dams, in the Alps and Pyrenees. For this measurement campaign, RTsys has added a depth gage under the buoy in order to measure the bathymetric profile of the river.

More information about SYPOD: https://rtsys.eu/en/real-time-systems/

RTsys, innovation in underwater acoustics and drones

Specialists in passive and active underwater acoustics and drones, the RTsys company has more than 30 years of expertise and extensive business experience in the development of reasonably-priced high-tech products. Its innovations are used not only in the civil sector, but also for defense, and are equipped with SDA (Synchronous Data Acquisition) technology, developed by RTsys.

Within a context of increased monitoring of the marine environment, in connection with reducing noise pollution, RTsys is one of the front-runners in acoustic monitoring, following huge investment in research and development, and in cooperation with the scientific community.

RTsys' recognized expertise in the defense sector and its close collaboration with the French Navy enable it to develop innovative underwater detection.

Notable recent RTsys achievements include underwater drones, which can communicate as a pack and the MIMO (multiple input multiple output) acoustic modem, which considerably increases the data transfer rate in water.

Contact

Vidal TEIXEIRA

e-mail : vteixeira@rtsys.fr

- www.**rtsys**.eu
- info@**rtsys**.eu
- **+33 (0)297 898 580**

25 rue Michel Marion
56850 Caudan – France