



## Updown Radiodrone

### Conception

Unlike the range of larger models , dedicated to yachting and operated by crew, Updown Radiodrone not require the presence of people on board , therefore , each maneuver is performed in synchronous systems between programming and interventions at a distance determined by radiofrequency and similar .

The aim is therefore to conduct a submarine of small size but highly technological , commanding it in remote and being able to determine and detect its position and movements on monitor .

A vehicle wich, for modesty cost and ease of use , makes possible for everyone to explore the underwater world , for industrial , educational , military , civil, inspection and control , is an undoubted innovation in the nautical sector and a kind new dimension to the horizons of the same .

Updown Radiodrone , just like Updown Habitable, is the unique vessel for the possibility it has to emerge above the water line more than three quarters of the overall height of the hull , compared to conventional submarines that emerge in lower proportions .

The mentioned characteristics mean that , once revealed , Updown Habitable and Updown Radiodrone behave in a similar manner to a normal pleasure craft , with the consequent advantage of operating on the surface with fast movements and especially with lower energy uses of conventional submarines . This is technically possible also because they are constituted by a shell of the type " ultra light displacement boat" or displacement of water ultralight ; Furthermore , they are able to embark and offload considerable quantities of water.

In full emersion , namely without any amount of water on board, Updown Habitable and Updown Radiodrone weigh about half of a conventional submarine of equal size ; this makes them unique .

### Features

The maximum length of Updown Radiodrone is 2 meters (about 7 feet) . Unlike the range of Updown of greater dimension , that is habitable , the type Radiodrone not require the presence of human personnel to be conducted , therefore , is not equipped with restrooms , places to sleep nor assistances necessary because human beings can dwell at ' interior .

Both for navigation in surfacing than in immersion for both maneuvers vertical descent and ascent and for any other type of command , Updown Radiodrone is completely arranged to be conducted via software and radio signals , also transmitting streaming images ( technology FPV ) , via the camera which is fitted .

Even Updown Radiodrone boards and expels the appropriate quantity of water to make it workable for immersion and emersion . Each type of Updown , living or radiodrone , it is normally able to rise to the surface in a few time.

## **Propulsion**

Updown Radiodrone is equipped to carry out a whisper-quiet navigation both in emerging than in underwater .

It has an electric motor of the brushless type between 0.8 and 1.5 kW of power , fed at 48 or 72 volts DC , via lithium accumulators made on purpose.

Reached a predetermined amount of electric charge , Updown Radiodrone automatically provides to emerge , to keep away from each other vessel detected , to open a series of photovoltaic panels and recharge independently of energy.

Updown Radiodrone can sail at a predetermined distance , in the wake of a boat of reference that can also get to take charge of energy.

## **Conduction**

At every stage of the design of Updown Radiodrone , we have put attention on every possible reference to security.

Updown Radiodrone is not lostable and all its functions can be completely stopped and resumed at any time .

In emergency and completely terminated every reserve of energy, Updown Radiodrone is able to re-emerge in a totally self- releasing of the planned ballast; That said, each maneuver is part of a computer system and a software specially made .

You can set each parameter of navigation , even underwater , previously and therefore, to establish the timing and the dive height.

Regardless of the values set by the user from time to time , there are fixed limits that can't be changed and that are assigned by the manufacturer based on usage required when ordering .

The structure and stabilization in relation both to the pitch and rolling axis , are entrusted to the on-board computer that operates within a " range" set in advance .

Updown Radiodrone is equipped with four armored tanks . Each tank , totally independent of the other , is equipped with two valves dual circuit for the storage and the ejection of the load of water. The tanks are arranged in the stern, bow, port and starboard .

Each tank is able to bring Updown Radiodrone surface.

## **Versatility of use**

As stated in the opening, designed for industrial , educational , military , civil inspection and control , Updown Radiodrone is an undoubted innovation in the nautical sector and a sort of new dimension to the horizons of the same .

Subsequently, in daily living needs of the market, we realized that a similar vehicle , in addition to those already mentioned, it can be used for variety of uses such as scientific research, news reports , rescue , television coverage , inspection of whatever is below the surface of the water and whatnot.

Updown Radiodrone can be set up and equipped with special accessories dedicated to the needed purposes.

It can be employed by the Harbour , the Civil Defence , the Police, the Military Orders and all those entities or realities that need machines that can easily scour the depths of seas, lakes, rivers, and to carry out inspections to submerged plants , as keels of boats of any kind.

One aspect that is reported in closing, but that does not deserve less consideration of others set out above , is the ability to take samples of every type , including hazardous or relatively heavy .