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AC-ROV 100 Underwater Inspection System

A genuine breakthrough design, the **AC-ROV** is the most capable and portable small ROV on the market. A complete system comes in one rugged waterproof hand carry case with an all up weight of just 18kg. It defines the "**HAND CARRY**" class in underwater inspection systems. **CE Marked** and certified for all "feet wet" applications, offshore, onshore or down pipes, it is the safest and quickest tool for your underwater inspection. One person can easily deploy the system in less than **3 minutes**. Not only can it be carried in one hand, it can also be controlled with one hand, leaving your other hand free to tend to the tether, take notes, operate the manipulator or answer your mobile. The **AC-ROV** is a single operator system and a new benchmark in ROV design.

- **Hand Carry**
- **Rapid Deployment**
- **Single Operator**

The mobility of the AC-ROV further sets it in a class apart. The 4 horizontal thrusters operate together to power the AC-ROV forward, back and sideways. Their "vectored" arrangement is like having 4 forward and 4 side, or lateral thrusters. This is the thruster set up on the vast majority of serious commercial ROVs because lateral power and speed is as important as forward power and speed. One is used to get you to the target, the other is for keeping you face onto the target. More often than not any current at a target will not be head-on, but **SIDE-ON**, so serious inspection requires serious lateral flight capability. This is why the AC-ROV can fly as fast sideways as it can forward and back, or more importantly, **hold station in a given current coming from any direction**. There are also 2 vertical thrusters for up, down and tilt control.

- **Unequalled Mobility (5 degrees of freedom)**
- **Equal Forward and Lateral Thrust**

To make the most of the AC-ROV's manoeuvrability, the system uses a completely **intuitive 3D controller** with a single handed grip that can be moved in any direction, rotated and tilted. The AC-ROV responds by moving in the same way that the grip is moved. Controlling more movements than any single-handed joystick, it is still easier to use, simply because it doesn't require brain power. The same controller also incorporates an array of push button **flight assist functions**.

- **Intuitive 3D Control (use any hand)**
- **Powerful Flight Assist Functions**

With a "fly through" size of 190mm and a "drop through" size of 210mm, the AC-ROV can get into seriously small spaces. The unique AC-ROV thrusters do not have central shafts and the inward pointing blades do not meet. Apart from being very resistant to fouling, they provide full bore equal thrust in both directions. This is not the case for shaft mounted thrusters which normally have a motor right in the middle of the flow path and a shaft just waiting to foul up. The design results in an overall power to weight ratio 50 -100% greater than other small ROV. All these market leading attributes are delivered in an extremely robust, reliable, modular design. Its inherent strength and serviceability means that the AC-ROV keeps coming back for more.

- **190mm Pipe Fly Through**
- **Centre-less Thruster Design (very efficient, resistant to fouling)**
- **Robust and Serviceable Modular Design**

Check its **PEDIGREE** - designed and manufactured in Aberdeen, (Scotland) by born and bred diving and ROV engineers that routinely deliver solutions for water depths from 0 to more than 6000m, that's nearly 4 miles down. Check these people out at www.alloceans.co.uk



