



AC-ROV 2 Function Manipulator

The market leading **AC-ROV** Underwater Inspection System is available with a 2 function manipulator retro fit option.

Inline with the **AC-ROV** ethos of mobility, portability and robustness the solution is an integrated arrangement. The outcome retains the clean, robust and snag free shape of the **AC-ROV**, while maintaining the single operator aspect of the system. The Manipulator could not be easier to deploy, with no modifications required to the **AC-ROV** system and no specialist training for integrating the arm to the vehicle.

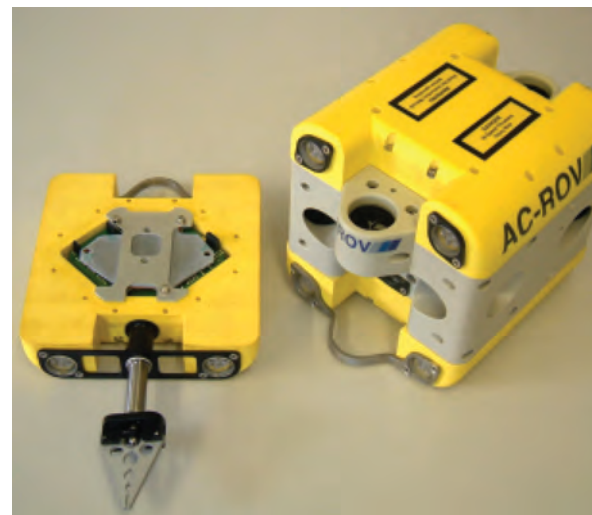
- **Robust, Serviceable and fully Integrated Design**
- **Simple 'no modification' retrofit**
- **AC-ROV mobility, portability and robustness**

During ROV operations, there are many situations where you need to hold on or recover objects to the surface. A single function manipulator is no use for either of these applications which is why AC-CESS developed a two function manipulator providing both **GRIP** and Continuous **ROTATE**. Use the manipulator to anchor the **AC-ROV** to something stable and then rotate it to get the viewed image in the correct plane. The **AC-ROV** can be left to watch a target and the pilot can take a rest or carry out other duties. Alternatively, and perhaps the more obvious application of a manipulator is to pick-up or deploy objects. If the weight and size of an object is beyond the capability of the manipulator then use it to run a line and hook or other secondary recovery device to the target. The rotation function of the manipulator is a big benefit when using a looped line to 'snare' a target. Once a line or hook is released onto a target the **AC-ROV** is there to monitor target recovery.

- **Grip and continuous two way rotation**
- **Single operator**
- **Override fail-safe release**

Vehicle and manipulator operations can be simultaneously carried out by one person. Manipulator controls are integrated into the 3D hand control pad.

Supplied in its own custom case, the manipulator can be specified with 2 or 3 jaws and has an override **fail-safe release** mechanism in case of power failure, ensuring the vehicle can be recovered safely.





SPECIFICATION

2 Function Manipulator Integrated to AC-ROV Base Block

Materials	Acetyl, Stainless Steel, Titanium
Style	2 jaw or 3 jaw
Jaw Grip	50g x 45mm maximum (golf ball) 5 seconds full open to full closed
Jaw Rotate	Continuous CW or CCW 5 seconds per rev

CONFIGURED AC-ROV:

Length	285mm
Width	151mm
Height	152mm
Vehicle Fly Through	200mm

The manipulator is supplied in its own custom case.

