

ROV (REMOTELY OPERATED VEHICLES)

ISS ROVs are compact, light weight with excellent manoeuvrability. This miniature ROV is frequently used as a Security Inspection and Survey Tool for Maritime applications such as Port Facilities, Ship Hulls, Pipelines, Oilrigs and Water Locks/Dams etc.

THE MINI ROV is ideal equipment for most underwater INSPECTION - SEARCH - RECOVERY operations in sea or fresh water. It is compact in size which allows us to overcome past logistical problems with conventional ROVs. With a total system weight of only 90kg, (ROV alone 12Kg) compactly stored in 3 protective cases, we are able to deploy the ROV anywhere in the world on very short notice. We can operate from vessels as small as 6m (20 feet) equipped with a power supply of only 1.5kW allowing deployment up to depths of up to 200m (656 feet).



The ROV is equipped with 4 power full thrusters allowing for movement in all directions similar to a helicopter operation. Colour Video & Sonar images captured on High Definition Cameras (270° field of view). Data & Images can be recorded for later analysis or editing if required. It's onboard sonar system allows us to operate in zero visibility.

The use of the ROV can be extended with more than twenty standard options like: Jaw grabber, extended umbilical cord, Ultrasonic Thickness Gauge, USBL Tracking System, Laser Scaling etc.



Dive depth restrictions or dangerous conditions are a primary reason to put a ROV at risk rather than a human. The ability to survey a site, search for an item or person and even recover the object or person has tremendous value to Maritime Security teams around the world.

- Primarily, dangerous conditions & dive depth restrictions are the best reason to use ROVs instead of risking humans.
- Remotely operated from onshore or a floating platform, vessel etc. in either fresh or salt water.
- Extremely compact, light weight (11 kg), highly maneuverable & versatile (used in a variety of Maritime Security applications).
- Colour Video & Sonar images captured on High Definition Cameras (270° field of view). Data & Images can be recorded for later analysis or editing if required.
- Sonar system allows operations in zero visibility.

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Onshore Inspections:

- Bridge piling
- Lock-gate
- Dam
- Reservoirs, Quarries, Lakes etc.
- Marina Developments, Quaysides etc.
- Water treatment plants



Offshore Inspections:

- Platforms
- SPM (Single Point Mooring)
- Shipwrecks
- Ship Hulls & Propulsion Systems



Pipeline/s Inspections:

- External & Internal Pipes
(Minimum Pipe diameter 400mm)

Maritime Security:

- Rapid deployment for underwater vessel search Plotting, tracking & mapping of underwater search fields Locating potential hazards without endangering divers



Key Points For Using Miniature ROVs

- Real time video viewing (day/night) from shore for Maritime Security personnel
- Inspection of underwater structures to detect objects, damages, obstructions and/or faults
- Monitoring underwater building progress
- Detecting submerged obstacles
- Getting information for case study and future underwater projects with minimised cost
- Surveyors, Engineers and/or Maintenance Personnel can direct ROV operator to find/focus on their points of interest
- Recorded video imaging for later viewing, archiving and/or reassessment purposes
- Still pictures available from video
- Sonar imaging of underwater structures
- Early detection of machinery and structural wear and tear can avoid potentially serious surveillance faults
- Extremely cost efficient inspection/observation tool
- Can be deployed on short notice and does not require any lifting gear due to its uniquely small size
- It can be operated directly from shore, small vessel or platforms
- Most importantly all operations can be carried out without endangering lives of divers to depths up to 200metres

THE ISS TEAM:

OFFICE: