

THINK DEEP ...  
THINK BLUE



## ADMIRAL II

OBSERVATORY CLASS ROV

**The Admiral 2 *inspection-class ROV*** is a portable & stable underwater system , built for very precise control in shallow water , mainly equipped with accurate analog control system for the thrusters & High resolution camera-lights Tilting mechanism for the completion of its mission.

A small profile allows this vehicle to inspect confined spaces, easily deployed and recovered from small vessels with no need for cranes.

## Admiral 2 Basic features

### Vehicle specifications:

- 20 m (65 ft.) depth rating
- Chassis: High impact black polyamide.
- Length : 700 mm
- width : 520 mm
- Height : 400 mm
- Weight in air: 50 Kg
- Total system weight: 70 kg
- Payload: 7 kg, 15 kg with additional ballast.
- Cruising speed: up to 2 knots
- Total power consumption: 900W
- Grabber: Three jaw, interlocking at any position.

### Thrusters/Performance:

- The Admiral 2 is equipped with six thrusters' configuration, arranged in special manner to give 8 DOF (degrees of freedom) motion.
- Configuration: 4 Vectored Horizontal (each 1.4 kgf forward thrust & 1.2 kgf in reverse direction) , 2 vertical thrusters (each 1.6 kgf forward thrust & 1.4 in reverse direction)
- Vector Angle: Manually variable to get the required cruising speed in any direction.
- Motor Type: Brushed DC direct drive
- Prop Diameter:
  - 90 mm for vertical thrusters
  - 70 mm for horizontal thrusters

### Forward Camera & Lights:

- Format NTSC default
- Resolution 420 TV lines
- Effective pixels: 322,752) 492 \* 656)
- Current consumption < 150 mA
- Horizontal angle: °160/°110
- Lens angle: °170/°120
- Sensitivity: 0.5 lux/F1.2
- Lights : 2xLED, variable intensity, tilt with camera
- Tilt Range : 180 Degree

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### Control system:

- Configuration: Rugged case with weatherproof monitor
- Monitor: Color LCD 17"
- Flight simulator Joystick
- Video recording : DV recorder mounted in controller (4 GB)
- Power Requirement: 900 watts, 240-100VAC

### Spares:

- Thruster : 1.4 \* 1kgf thruster
- Tools: Complete servicing tool box
- Manuals : Operations, service and repair manual, hard copy and CD-ROM
- Warranty : 12 month (1 year) AQUA-PHOTON Limited Warranty – not including propeller, tether or chassis damage.

### Admiral 2 additional (optional) features:

- 2 or 3 function manipulator.
- Additional camera: Sensitivity : 0.5 lux
  - o Resolution : 380 TV Lines
  - o Focus : Fixed
- Image scaling system : Laser scaling
- Sonar: Scanning sonar, multi-beam sonar, profiling sonar
- Tracking: USBL positioning system
- Sensors : Heading: Compass Accuracy °3±
  - o Depth: Depth Sensor Accuracy %2± of FSD
  - o Pitch: Gyro 0.5 °/s
  - o Temperature sensor.
- CP Probe.
- Alarms: Temperature, Leak, Thruster stall
- 1500 lumen aux. LED light modules
- Manual Hand reel with slip ring (for tether management)
- Video overlay system for control unit :
  - o Date and time
  - o Compass heading
  - o Depth
  - o Camera tilt position
  - o Vehicle pitch
- o Available in two colours:  