AQUA Photon

Contact us
for more info.
www.aquaphoton.net
info@aquaphoton.net

Think deep
.....Think Blue

Why to use AQUATINT PRO?

The First Egyptian ROV (AQUATINT PRO) is on its way to be produced by our company.

Advantages of our system:

- Lower price compared with other inspection class ROVs of international companies.
- We can provide lower prices in daily rate (rent)
- Doesn't require much routine work.
- Small that can be handled with man power (no need for cranes)
- Better &Faster aftersales services. (Local maintenance or new components so lower running cost)
- We can offer a unique design for a client and make a deal that same ROV will not be sold for any other client.

General specifications

- 100m (330 ft.) depth rating, with 150m tether.
- Four powerful brushless DC thrusters
- Extensive mechanical design for increased stability.
- Multiple camera options including rear and side cameras.
- Single phase 220 VAC with maximum power consumption of 1200 W
- Dimensions: L*W*H = 400* 300* 300 mm
- Weight in air:
  Weight without NDT sensors = 18 Kg
  Weight with NDT sensors = 21.5 Kg

Thrusters

Our ROV is equipped with four thrusters in order to operate in water with high current speeds up to 2 knots & to maneuver in 5 degrees of freedom.
Two non-vectored horizontal thrusters are placed to produce a thrust force of 13.5 kg.f in the horizontal direction, while two vectored vertical thrusters are placed to give 8.5 kg.f in the vertical direction & to lift up to 5 kg payload.
The thrusters are made of hard anodized aluminum to deal with harshest environments & decrease rate of corrosion.

Buoyancy kit

Our buoyancy kit is made of Syntactic Foam, syntactic foams are engineered to provide the lowest possible density for any given depth. Producedfrom the most advanced resin and hollow glass microspheres available, they offer high compressivestrength and stiffness, high buoyancy per volume and extremely low water absorption.

Cameras/Lighting

IP Camera: four megapixels high definition
Camera Tilt: 180 degrees
Angles of View: 186° (horizontal), 106°(vertical)
Sensitivity: 0.01 lux
Format: ONVIF, PSIA, CGI, ISAPI
Lighting: 2000 Lumen LED

Control System

-The interface between AQUATINT PRO and the operator is the Operator Control Unit (OCU). Through the OCU, the operator can feed power and control signals to the ROV. Equipped with main switch and emergency button, safety of both the operator and the ROV can be insured. Cameras signals are fed to the OCU so that clear vision on rugged monitors gives the operator a clear vision of the underwater environment and stable operation. Not only cameras, but also sensors data overlay enables the operator to have more awareness of the ROV status.

- Power requirements: 1200 watts, 220VAC
Video overlay: Depth, heading, lights, camera angle, time, date
and user programmable characters.

Tether

Diameter: 14 mm
Length: 500 ft.
Buoyancy: Neutrally Buoyant in fresh water, bright green
300 volt rated conductors

Manipulator

The manipulator arm can be easily attached to the ROV to lift objects underwater.
From the control unit, you can open and close the jaws to a three inches distance to retrieve items in confined or hazardous locations. The ROV camera focuses in on the manipulator arm to provide a close view of the operation. When not needed, the manipulator arm can be easily removed in seconds.

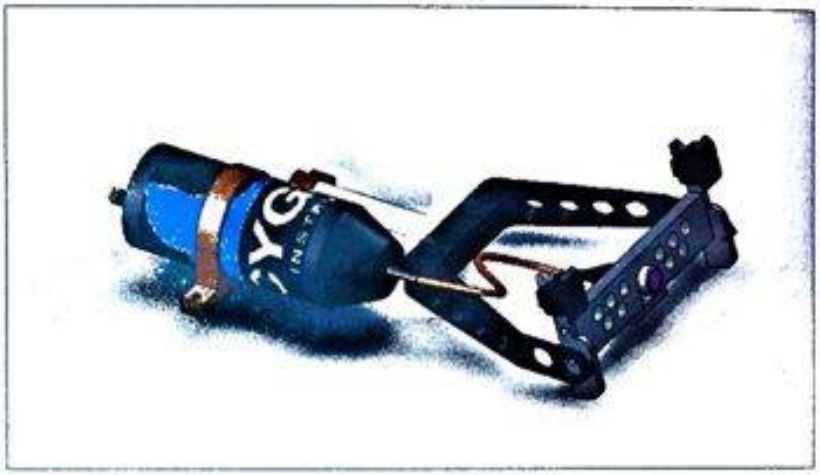
AQUATINT PRO's Price: 12,500 $

Options:

(1) Ultrasonic metal thickness gauge

The Cygnus Ultrasonic Metal Thickness Gauge can be mounted on our ROV.
Multiple Echo Ultrasonic Thickness Gauges allow the measurement of metal thickness and corrosion without removing protective coatings.

Typical Thickness Gauge applications are:
- Internal Potable Water Tank Inspections
- Vessel Hull Inspections
- Vessel Ballast Tank Inspections
- Submerged Infrastructure Inspections
- Diver Inaccessible Submerged Inspections



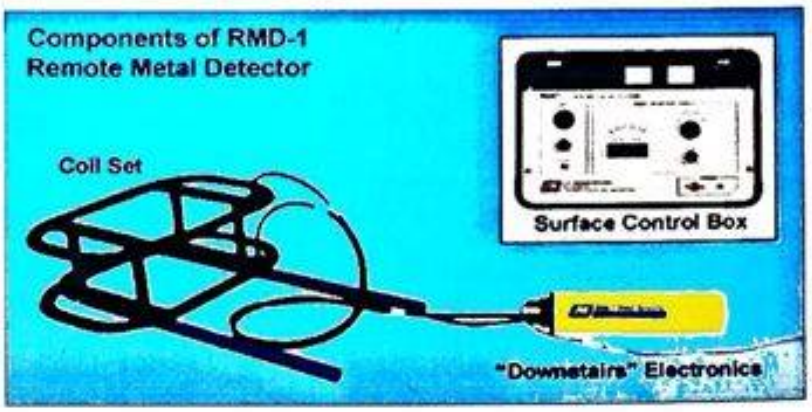
Price:8150 $

(2) Metal object detection sensor

The RMD-1 is a high performance Pulse induction metal detector which can be mounted on our ROV
Pulse induction technology allows the RMD-1 to detect both ferrous and non-ferrous metal objects on or beneath the ocean floor while ignoring minerals in the seabed.

The remote metal detector locates and tracks underwater pipelines, finds missing tools and dredge parts, locates weapons and unexploded ordnance, and finds lost treasure.

The RMD-1 produces a detection envelope which extends 3 to 5 feet into the bottom.



Price: 15200 $

(3) Sub Sea Cathodic Protection Survey (CP Survey)

Cathodic protection sensors can be mounted on our ROV.

Common applications are: steel water or fuel pipelines and steel storage tanks, steel pier piles; ship and boat hulls and offshore oil platforms.
Our company can provide 2 systems used to inspect the condition ofcathodic protection systems.

Price: 2200$