R2 Drones
Unmanned Solutions

Drones R2 is a company doing business in the development of unmanned systems US (Unmanned Systems), both air UAV (Unmanned Aerial Vehicle), as underwater ROV (Remote Operated Vehicle) and marine USV (Unmanned Surface Vessel) also operates these platforms to offer a new dimension in operational effectiveness Inspection providing Industrial Facilities and Infrastructure through photography and / or video in a range ranging in air up to 300m and up to 150m underwater HD and other specialized sensors comprehensive information through a detailed engineering infrastructure status report. We have developed the R2 Drones Facility Service that offers these platforms commissioned for institutional and private clients as their needs with all services involved: Design, Manufacture, Operation, Maintenance and Training, also sell some platforms under license from some American manufacturers. We have the necessary human and technological resources to respond to any need that requires your organization through Technology <Off the Shelf>, which keeps up the platforms to develop and to integrate new requirements at low cost and in short periods of time in the graph below shows our process development activities we get the satisfaction of our customers because we always have the required equipment and the required specifications knowing in advance at a fixed cost unchanged.

Industrial Inspection - Monitoring Infrastructure - Aerial Surveying - Mapping

Our main applications such as UAV operators – ROV - USV is the Industrial Inspection of facilities such as Power Plants - Refineries - Wind Farms - Offshore Platforms - Inshore Lines (Oil and Gas) - Mining - Inspection Infrastructure - Ports - Underwater Structures - Roads - Telecommunications Infrastructure among others, they use the following sensors:

- Digital Cameras over 12 low distortion MPX ground resolution georeferenced images -120m 3cm high.
- HD video cameras
- Thermal cameras infrared spectrum (7.5 to 13.5µm)
- Multispectral camera radiometric calibration options 3,4,6 band
- LIDAR sensor with 270 ° angle scanning laser rangefinder with dense point clouds creates 3D models (penetrates vegetation).

We perform oblique Photography allowing you greater resolution for the diagnosis of facilities or infrastructure details.

All our pictures are georeferences both its position as the coordinates of where they were taking position and height. Our inspections are presented in a report in both paper and digital, performed by qualified personnel according to inspection sector.

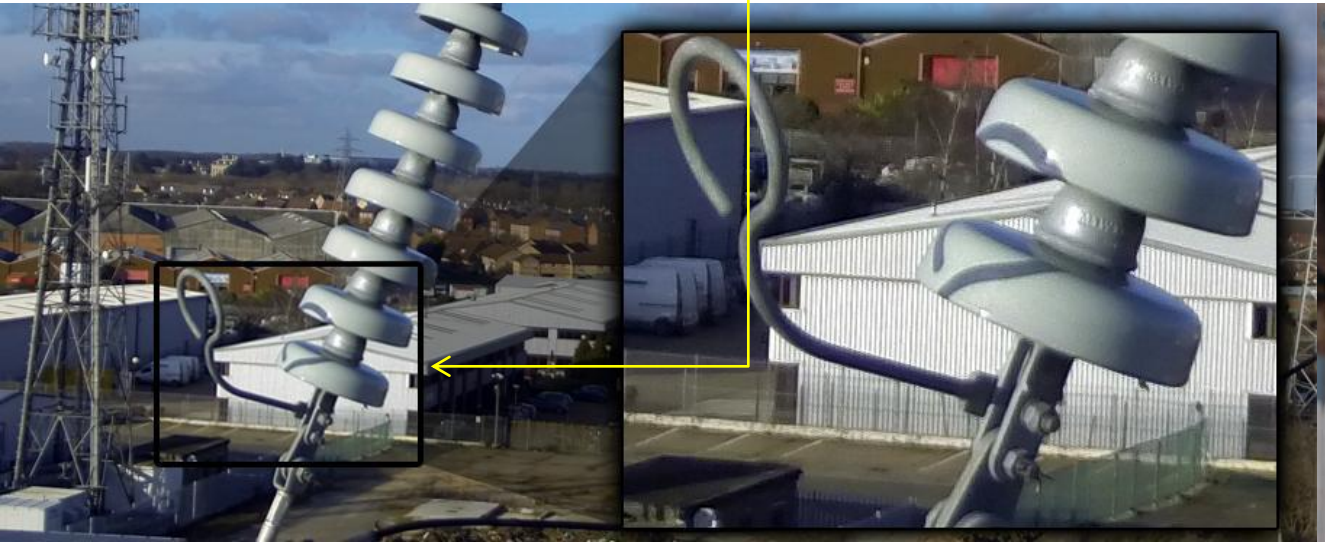
- PROJECT MANAGEMENT, we are able to provide images of his work or infrastructure in real time at any location in the world where you find that along with his team of PM can make decisions in a short space of time and with the right information.

Industrial Inspection - Monitoring Infrastructure - Aerial Surveying - Mapping

Cost-effective and Technologically Appropriate

- No need to shut down facilities or stop activities
- Fast and flexible Inspections
- Make informed decisions prior to planned maintenance
- Inspection defined around customer requirements
- Consulting Approach
- Technical documentation and highly detailed images
- Safety is our priority
- Detailed risk assessments and method statements
- Operations team dedicated to planning work
- None environmental impact of our operations

Images obtained with
Camera **GO PRO** Black
Edition Hero 3, mounted up Quadcopter storm R2 infrastructure developed for Inspection



Inside Smart Environment

Industrial Inspection - Infrastructure
R. P. A. S.
Remotely Piloted Aircraft Systems
Inside Smart Environment
Efficient Asset Inspection and without Interruptions
450
Technical Inspection Report T.I.R.
R2 Engineering
Check all RISKS every morning and Success will be at its Operations
R2 Drones & Innovation
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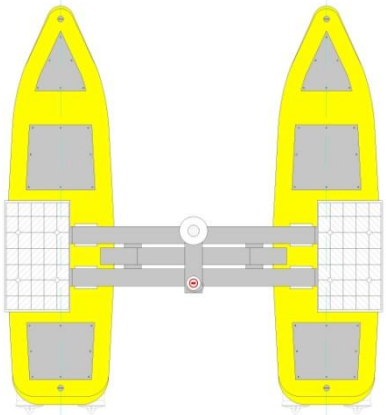
Underwater

UNDERWATER INSPECTION

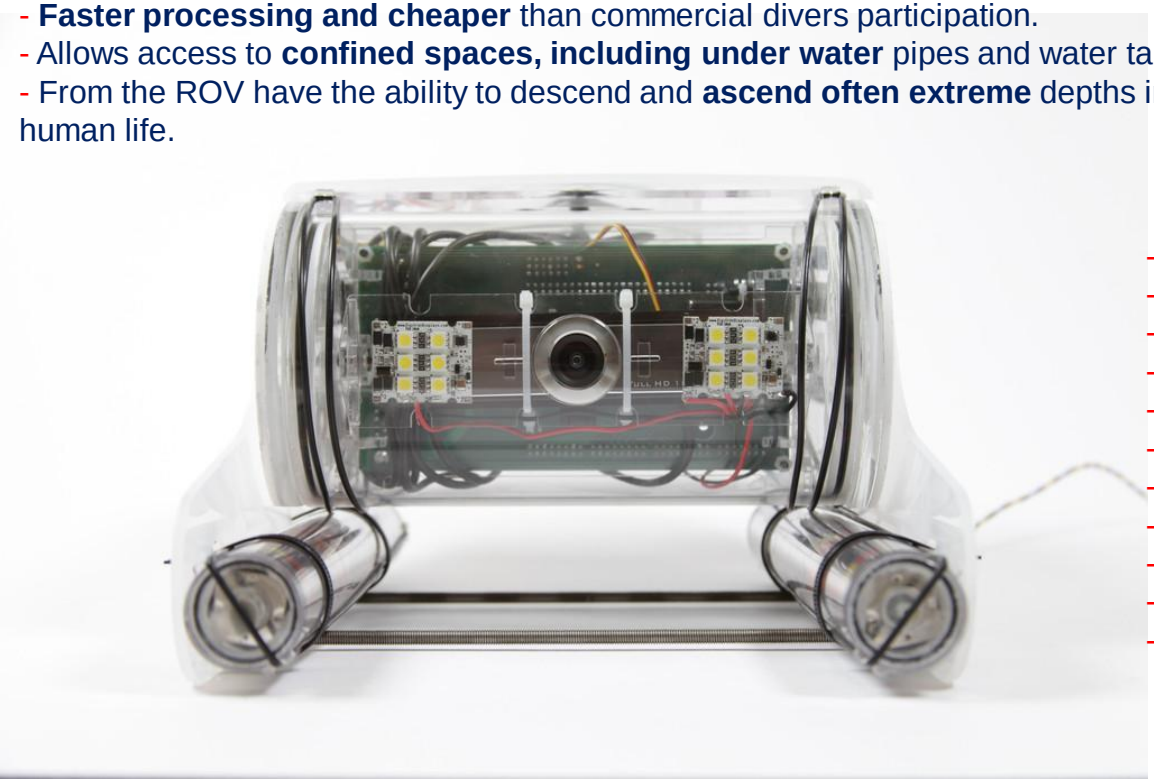
Today we are able to offer our underwater inspection by **ROV** (Remote Operated Vehicle) and **USV** (Unmanned Surface Vessel), Getting **Video and HD color photograph** for inspection by any active underwater, to a depth of 150 m, which will allows a quick, reliable and **low cost** information with respect to traditional methods and report emissions for making decisions. In addition a system that takes care of the marine environment. Soon we will also offer services through underwater mapping **AUV** (Autonomus Underwater Vehicle).



USV Supermarine I

Benefits of using our inspection systems ROV

- The **elimination of the risk** of harm to human health.
- Provides customers with **video recording full high** visual quality.
- **Faster processing and cheaper** than commercial divers participation.
- Allows access to **confined spaces, including under water** pipes and water tanks.
- From the ROV have the ability to descend and **ascend often extreme** depths in a wider temperature range that can sustain human life.



Main sectors of application :

- Aquaculture
- Water Storage Tanks
- Dams and Reservoirs
- Pipes and Tunnels
- Ports, maritime safety and security
- Mining Sector
- Oil and Gas Industry
- Support for underwater construction work
- Search and retrieval
- Inspection of ship hulls
- Environmental inspections and spill control

Inspección Industrial – Plataformas y Estructuras Offshore

Enfoque Basado en la Consultoría

Informe Técnico de la Inspección
Technical Inspection Report T.I.R.

R2 Drones Innovación

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Inside Smart Environment

R2 Drones Mapping

Procedure

Start activity - Programming

CUSTOMER Needs evaluation

CONTRACT Project specifications

FLIGHT SCHEDULE

FLIGHT

Essential to begin activities and programming

CHECKING

FLIGHT

DATA Field test

Software Modeling

Report DSM Plans

CUSTOMER

An accurate calibration, ground cover with an overlap of **redundant data** dramatically accelerate time and processing accuracy of the information that is delivered to the customer as well as the quality thereof for making **sound decisions.**

R2 Drones

Unmanned Systems

Unmanned Systems

Information Sheet

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Keyword	Construction - Design & Operation

Rivero R2 Robotics