

UAV characteristic:

- 8 brushless motors
- Sparkproof battery connections
- Up to 20 flight min.
- 3 axis stabilized support for camera
 - Full autonomous autopilot capability
- Emergency parachute
 - Foldable MTOW of 11kg.

Visual camera specifications:

- 20.1 MPx
- 50X Optical zoom
- Remotely operated camera functions
- AVCHD 1080/60p Full HD video

Thermal camera specifications:

- Range of temperatures: -40°C +550°C
- Field of view: 48(H)x39(V)
- IR resolution: 320 X 256.



Contacts

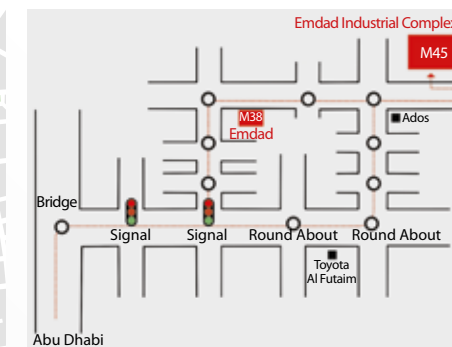


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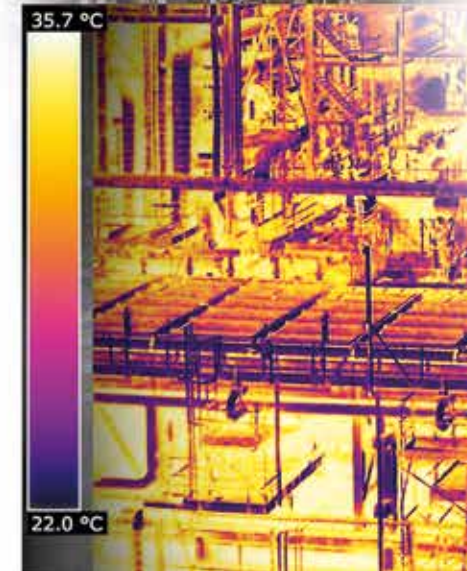
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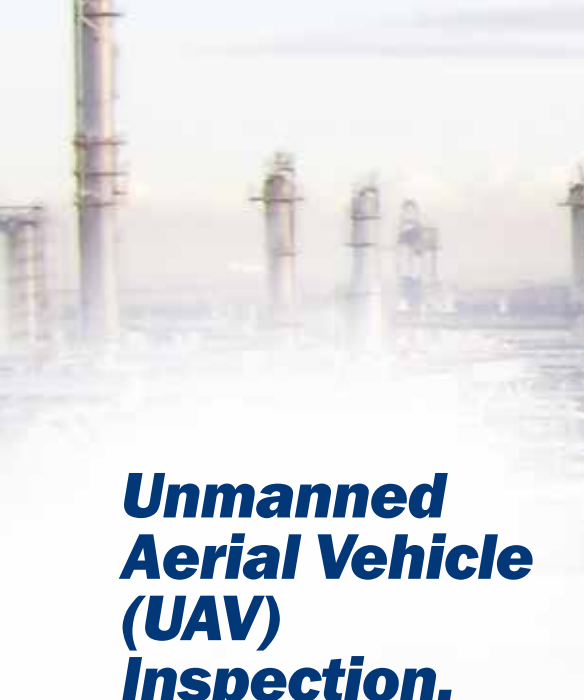
CAREO VALVE®



**Unmanned Aerial
Vehicle Inspection.**



24 Hours a Day, 7 Days a Week to Handle Your On-Site Service Needs.



Unmanned Aerial Vehicle (UAV) Inspection.



Care-O-Valve is fully equipped to provide close visual and thermal inspections and surveys for Oil & Gas plant, Chemical Industries, Power Utilities, Civil Buildings, Civil Engineering industries and any kind of building or landscape.

Thanks to the fully equipped **UAV** we can reach any kind of assets. Our qualified personnel can provide you full detailed reports with high quality image and videos (full HD image) that will allow you to take critical decision and aiming to money savings.

We provide fully qualified personnel for work in onshore and offshore location, having yearly experience in the sector.

All the personnel is provided with safety passport to operate onshore and offshore (OPITO certification, offshore safety induction and emergency training included HUET and EBS (5700)).

The digital equipment of our **UAV** can provide high quality pictures and videos that will allow you to survey any spot of the plant,

building, rigs and any other construction saving time and avoiding people working at heights, minimizing in this way the safety risk of the personnel and minimizing the time of the inspection.

The Multicopter, battery operated, is equipped with autopilot and GPS lock/waypoint functionality.

Furthermore is possible to fly autonomously above a selected route by just adding waypoints on the map interface.

Thermal imaging can be used to locate overheating spot in any kind of plant, facilities and construction. It is a useful solution and a valid alternative to IR thermometer.

While the common thermometer allows to relieve the temperature in a single spot, the thermal camera allows to cover a wide area revealing any risk of overheating.

Possible application varies from thermal check of motor, generator, panels, plant

to wider area like solar panel installation, flare lines, high voltage pylons.

The use of thermal camera avoid the operator to be near the component to relieve the temperature and gives a wide visual of the situation.

The possibility to integrate the camera to a **UAV** allows to reach the highest point minimize the risk of the operator, avoiding working at heights, and allowing the operator to operate remotely from a safer position.

This kind of solution does not interfere with the normal operation of the plant or the area, allowing to save money and avoiding shutdown of the equipment to effectuate the surveys.

Care-O-Valve is also investing in thermal camera for gas detection surveys. Thanks to the latest technology of the sector thermal camera can also reveal gas leakage from valve, flanges, fittings or any other components.



Due to the light absorption of the gas the leaking can be seen by a thermal camera avoiding to effectuate spot surveys with the common sniffer.

This will allow the operator to take a surveys from a safe distance, minimizing the risk and covering wider area in minor time.

This equipment can be operate remotely and can be used with our **UAV** to cover wider area from heights and reaching any spot of the plant.

Our **UAV** are stabilized for geostationary flight, minimizing in this way the vibration caused by the flight.

There is no limit on the surveys **Care-O-Valve** can take thanks to the modern technology, and there is no challenge that Care-O-Valve is refusing. Contact us for any information or queries regarding our services.

Some of the benefit of **Care-O-Valve** surveys services:

- Money saving - inspection carried out while the asset is still online, before a shutdown, can lead to save you money
- Downtime saving - inspection can be carried out while the assets is still in operation



- Minimizing Health & Safety risk - **UAV**, battery operated, reduce the risk of taking surveys in dangerous locations, like working at heights, contaminated areas, overheat environment
- High quality information - our expertise and equipment can provide useful data thanks to the high quality imaging of our equipment. Both visual and thermal surveys can be performed to the highest quality standard available in the market. This will allow to locate and diagnose problems in the quickest way.



We can cover up to 1 square kilometers per day.

Our drone have a flight endurance of up to 20 min., and spare batteries that will allow to effectuate multiple surveys in the same day.

This will provide a solid and stable flight performance, allowing the pilot to concentrate on precise positioning of the drone on the selected spots.

The autopilot is wi-fi connected to the ground control station so actual positioning of flying drone can be seen on the ground maps and all flight data can be accessible to the operator directly from the ground.

