

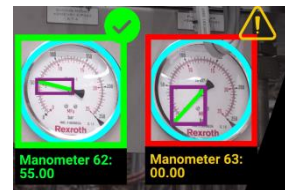


Moliris AMRs

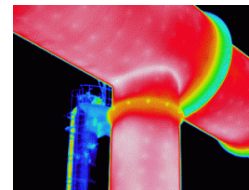
Energy Applications

Jan 2025

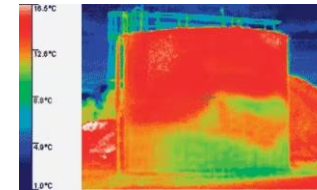
OIL & GAS PLANT INSPECTIONS



Manometer reading



Hot-spot detection



Tank inspection

The Oil & Gas Robot, is able to:

- detect gases (H₂S, ..)
- tank inspection
- read manometers
- detects hot spots
- detect liquids on the ground
- perform anti-intrusion surveillance
- 3D scanning (BIM)



Gas detection

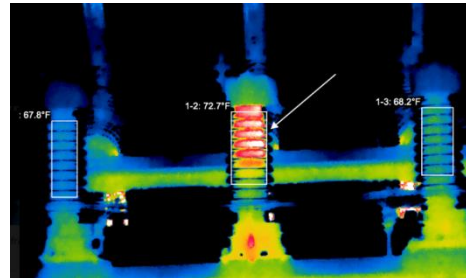


Liquid on the ground detection

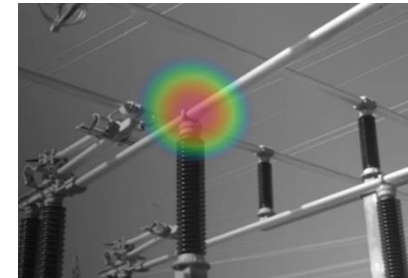


Intruder detection

ELECTRIC POWER STATION INSPECTIONS



Fault detection



Fault prevention

The Grid Robot, is able to:

- prevent electric fault
- detect electric fault
- detect liquids on the ground
- perform anti-intrusion surveillance
- 3D scanning (BIM)



Fire prevention

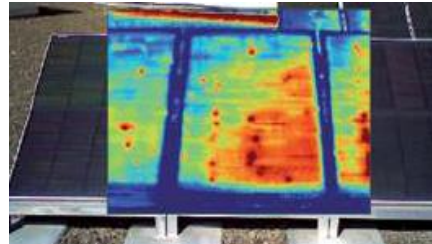


Intruder detection



Leak detection

SOLAR PLANT INSPECTIONS



Not working cells



Intruder detection

The Solar Robot, is able to:

- find not working cells
- keep animals, even birds, away
- prevent fire
- perform anti-intrusion surveillance
- 3D scanning (BIM)

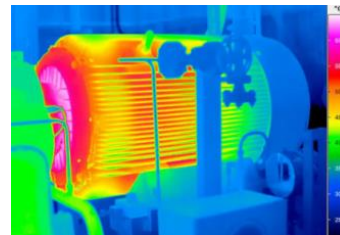


Birds dirtying the panels



Birds dirtying the panels

URBAN WATER PLANT INSPECTIONS



Pump Inspection



Leak detection

The Urban water Robot, is able to:

- inspect pumps
- detect liquid leak on the ground
- prevent fire
- perform anti-intrusion surveillance
- 3D scanning (BIM)

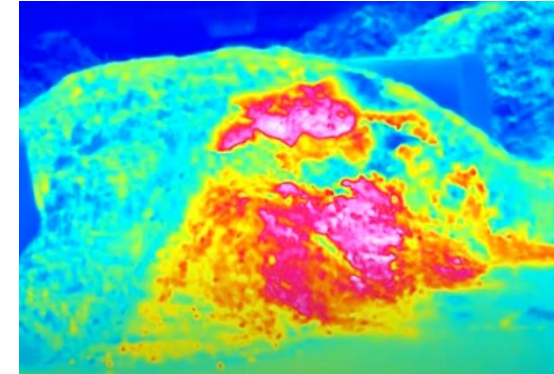
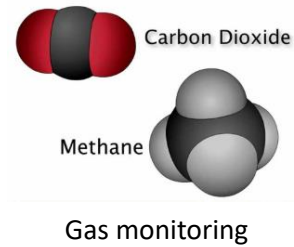


Intruder detection



Fire prevention

LANDFILL INSPECTIONS



Fire prevention

The Landfill Robot, is able to:

- monitor gas (methane and carbon dioxide)
- prevent fire
- perform people detection
- keep animals away
- 3D scanning (BIM)

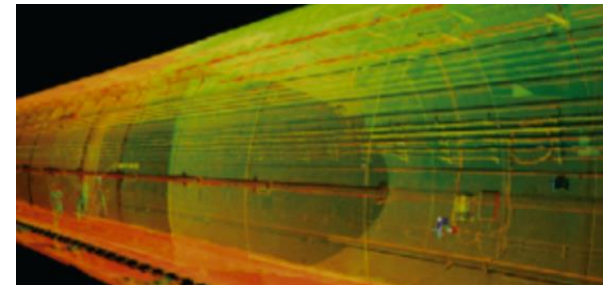


People detection



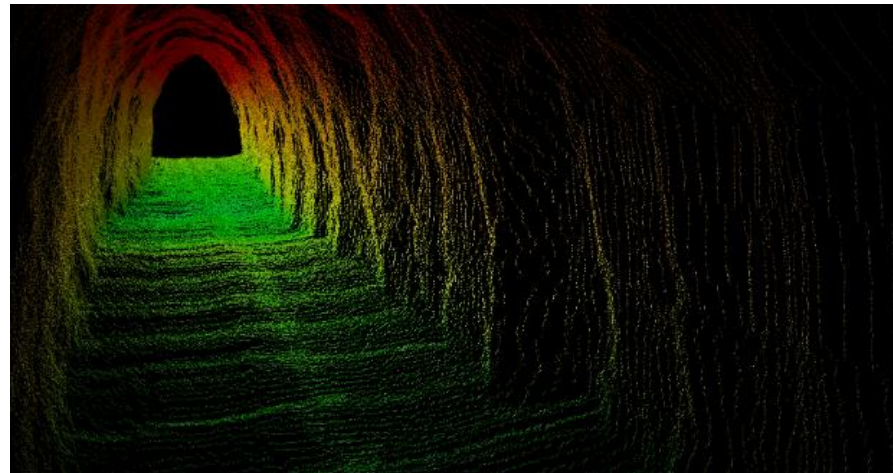
Keeping animals away

TUNNEL INSPECTIONS



The Tunnel Robot, is able to:

- Perform high resolution structural inspection
- 3D scanning (BIM)
- Thermographic inspection



DRONE-ROBOT COMBO

The D-platform Robot transports the drone to the “area of interest”:

- avoiding flight in prohibited areas;
- avoiding flight risks (wind, navigation issues, obstacle avoidance, communication instability, etc.);
- reducing drone energy consumption to allow longer flight in the “area of interest”.



The drone and robot can navigate in coordination to improve the effectiveness of detection or inspection.



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