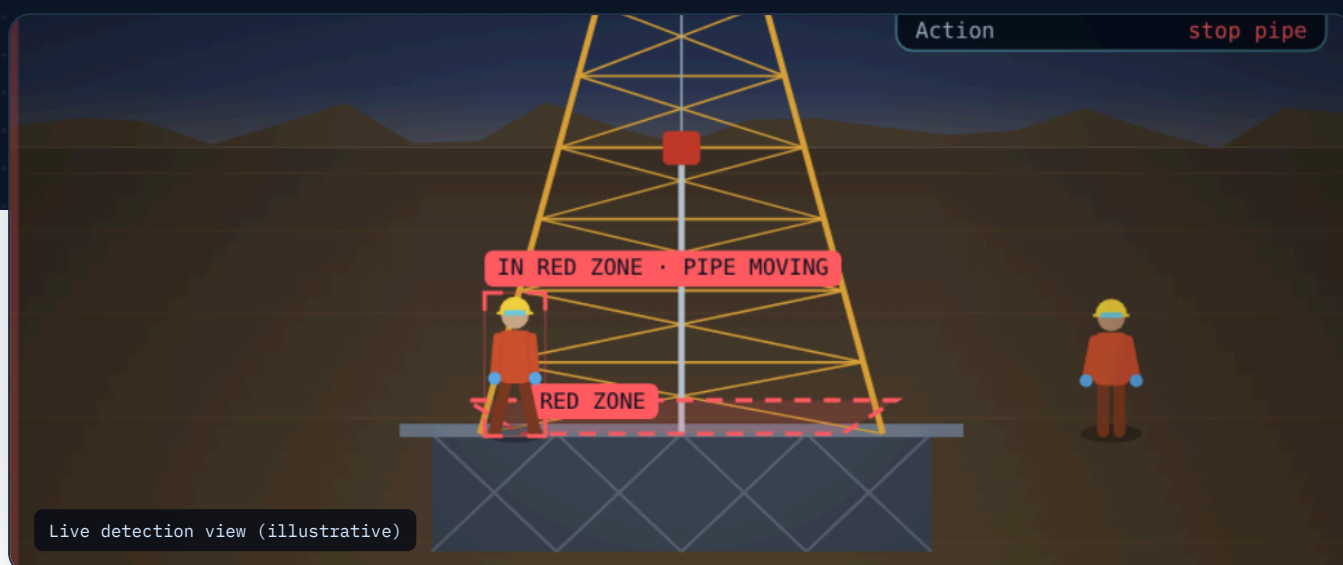


Eagle Energy

Oil & gas, rigs, refineries, fuel & power

From the rig floor to the fuel pump, **zero blind spots.**

Eagle Energy brings computer vision to drilling rigs, refineries, tank farms, pipelines, fuel stations and power sites. It keeps people out of red zones and from under suspended loads, checks PPE and tie-off, spots flame, smoke, leaks and spills in seconds, reads gauges and valves, protects perimeters and pipelines, and measures rig activity, all from your existing and thermal cameras.



● AT A GLANCE

Safety Red zones · PPE · loads	Detection Flame · smoke · leaks	Cameras CCTV · thermal · OGI	Works in Rigs · plants · stations
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● KEY CAPABILITIES

Built for hazardous sites

Works with explosion-proof, thermal and optical gas imaging cameras already approved for your site.

Runs at the edge

Analysis runs on site, on rigs and remote wells with limited connectivity, and only alerts are sent out.

Fits your HSE system

Events feed your permit-to-work, incident and SCADA systems through APIs, with images as evidence.

Seconds, not rounds

Gauges, valves and tanks are checked continuously instead of once per shift.

● USE CASES · 29 (1/2)

Drilling & rigs

6

01 Red zone on the drill floor

Alert when anyone steps into the red zone around the rotary table while the top drive or pipe is moving.

Onshore rigs & well sites · Offshore platforms

02 PPE on the rig

Check hard hats, safety glasses, gloves and FR coveralls for every person on the drill floor and pipe deck.

Onshore rigs & well sites · Offshore platforms

03 People under suspended loads

Detect people walking under or near a crane load during lifts on the pipe deck and yard.

Onshore rigs & well sites · Offshore platforms · Refineries & petrochemicals

04 Work at height and tie-off

Confirm workers on the monkey board and at height are tied off with a visible lanyard.

Onshore rigs & well sites · Offshore platforms

05 Rig activity and non-productive time

Classify rig state from video (drilling, connection, tripping, idle) and measure connection time and non-productive time.

Onshore rigs & well sites · Offshore platforms

06 Remote well sites and pump jacks

Check that pump jacks are running and log every vehicle and visitor at unmanned well sites.

Onshore rigs & well sites

Fire, gas & leaks

5

07 Flame detection

Spot open flames in process areas within seconds and alert the control room and fire team.

Refineries & petrochemicals · Tank farms & terminals · Onshore rigs & well sites

08 Smoke detection

Detect smoke from pumps, motors and cable trays early, often before a fire alarm triggers.

Refineries & petrochemicals · Tank farms & terminals · Power plants & substations

09 Gas leak plumes

Detect gas and vapour plumes from flanges and valves using optical gas imaging (OGI) cameras.

Refineries & petrochemicals · Tank farms & terminals · Pipelines

10 Oil and liquid spills

Detect liquid spreading on the ground around tanks, manifolds and pumps, and measure how fast it grows.

Refineries & petrochemicals · Tank farms & terminals · Fuel stations

11 Flare stack monitoring

Watch the flare for flame-out and black smoke, and log events for environmental reporting.

Refineries & petrochemicals · Onshore rigs & well sites · Offshore platforms

Plant operations & HSE

7

12 Analog gauge reading

Read pressure and temperature gauges from cameras every few seconds, without manual rounds.

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13 Valve position check

Confirm each valve is open or closed as the line-up requires and flag mismatches before start-up.

Refineries & petrochemicals · Tank farms & terminals

14 Tank level and overfill watch

Read tank level gauges and alert at high and high-high levels while tanks are filling.

Tank farms & terminals · Refineries & petrochemicals · Fuel stations

15 Confined space entry

Log who enters and leaves a vessel or tank, track time inside and alert if the attendant leaves the hatch.

Refineries & petrochemicals · Tank farms & terminals · Offshore platforms

16 Hot work and fire watch

Confirm a fire watch stays with every welding or cutting job for the whole permit.

Refineries & petrochemicals · Tank farms & terminals · Onshore rigs & well sites

17 Man down and lone workers

Detect a fall or a worker who stops moving in remote areas and alert the control room.

Refineries & petrochemicals · Onshore rigs & well sites · Offshore platforms

18 Emergency muster headcount

Count people arriving at each muster point and list who is still missing during a drill or alarm.

Refineries & petrochemicals · Offshore platforms · Onshore rigs & well sites

● USE CASES • 29 (2/2)

Security & pipelines

4

19 **Perimeter intrusion**

Detect people climbing or cutting the fence at night with thermal cameras, while filtering out animals.

[Refineries & petrochemicals](#) · [Tank farms & terminals](#) · [Power plants & substations](#)

20 **Pipeline right-of-way**

Detect excavators, vehicles and digging near buried pipelines before damage happens.

[Pipelines](#)

21 **Tanker gate control**

Read tanker plates, check the transporter and loading slot, and log time on site at terminals.

[Tank farms & terminals](#) · [Refineries & petrochemicals](#)

22 **Control room and restricted access**

Allow only cleared and inducted staff into control rooms and restricted areas.

[Refineries & petrochemicals](#) · [Power plants & substations](#) · [Offshore platforms](#)

Fuel stations

4

23 **Smoking and phones at the pump**

Detect smoking and phone calls on the forecourt near dispensers and alert the attendant.

[Fuel stations](#)

24 **Drive-offs without paying**

Link each fill to the car plate and flag vehicles that leave without paying, with the clip saved.

[Fuel stations](#)

25 **Pump occupancy and queues**

See which pumps are busy, how many cars are waiting and how long each fill takes.

[Fuel stations](#)

26 **Safe tanker unloading**

Check the unloading routine at stations: engine off, cones, earth cable, spill kit and attendant present.

[Fuel stations](#) · [Tank farms & terminals](#)

Power & renewables

3

27 **Substation clearance zones**

Alert when anyone without a permit enters the clearance zone around live equipment.

[Power plants & substations](#)

28 **Thermal hotspots**

Track transformer, bushing and switchgear temperatures with thermal cameras and alert on hotspots.

[Power plants & substations](#) · [Refineries & petrochemicals](#)

29 **Solar panel soiling and damage**

Find dusty, cracked or shaded panels across the field and plan cleaning where it pays back most.

[Solar & renewables](#)

● TECHNICAL OVERVIEW

Video sources	NVR, DVR, RTSP streams and ONVIF IP cameras
Camera brands	Hikvision, Dahua, Uniview, Axis and other ONVIF cameras
Video formats	H.264 / H.265
New hardware	Not required: runs on existing CCTV
Dashboard	Web dashboard in Arabic and English
User roles	Administrator and user
Alerts	Live alerts with snapshot and event time; recipients and schedules per use case
Reports	Per branch, per camera and per use case
Multi-site	Map of all branches with live status
Custom rules	Models trained for your specific requirement

● INDUSTRIES

Energy, oil & gas

See it running on your own cameras.

Book a live demo and we will build the demo plan around your site and the problem you want solved.

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● HOW IT WORKS

01

Connect

Add your NVR or DVR, or an RTSP link. Cameras are pulled in automatically.

02

Draw zones

Mark the areas that matter on each camera image.

03

Set alerts

Choose who is notified, when and for which events.

04

Decide with data

Daily reports per branch, camera and use case.