



OGTECH

Oil & Gas Technologies



GasViewer



FlamViewer



OilViewer

OG-Tech Presentation & Products range

Oil&Gas Technologies www.og-tech.fr

Presentation

OG-Tech was established in 2011 in Aix-en-Provence, South of France, to serve customers of the Petroleum, Petrochemical and Power industries in France (Total, Petro Ineos, Lyondel Basel, Kem one, Elengy...).

OG-Tech first specialized in portable IR cameras for Gas detection (OGI cameras), under our brand GasViewer.

Then, we expanded our range of products with fixed OGI cameras showing the gas cloud and its flow rate in real time, in your control room.

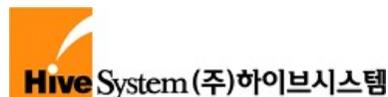
And later, we added flame detection and hot spot monitoring, as well as flare monitoring to our portfolio, under our brand FlamViewer.

Today, we supply portable cameras as well as gas leaks/flames monitoring full turnkey fixed solutions.



Oil & Gas Technologies
GasViewer
Aix en Provence – France -

Some of our references



OG Tech products range



GV-P-3234 Gen 3 - VOC
GV-P-4547 - CO/CO₂



GV-P-714
NH₃ + SF₆ + cooling gases



GV-F-3234 - VOC
*GV-F-714 - Some VOC + NH₃ + SF₆
Fixed cameras

Gas Viewer

Optical Gas Imaging Cameras

(portable and fixed)

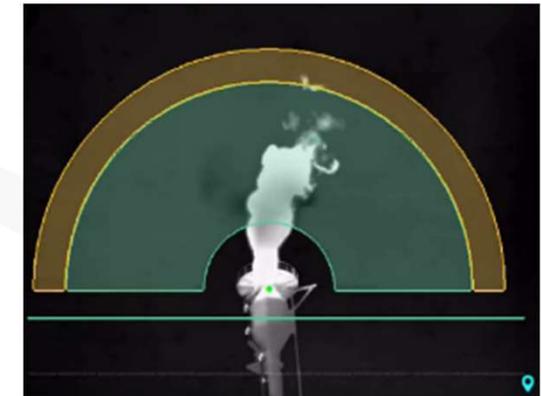


GV-Q-3234
Quantification software for
portable or fixed camera

OG Tech products range



FlamViewer
Flames detection



Hot spot & Flame detection
(including H₂, methanol
and sulfur)

Flare Monitoring
solution

Light and
heavy oil
touchless
detection
on water



OilViewer
Oil on water detection



01

—
OPTICAL GAS IMAGING
CAMERAS



GasViewer

1A – Portable cameras GV-P

ATEX certified OGI cameras



GV-P-3234 Gen 3 – for VOC
GV-P-4547 – for CO/CO₂

GV-P-714 for
NH₃ – SF₆ and
cooling gases

1A -Portable OGI camera

We can see ... small leaks ...



For the full video,
please click below
to our chanel on



1A -Portable OGI camera

We can see ... big leaks ...

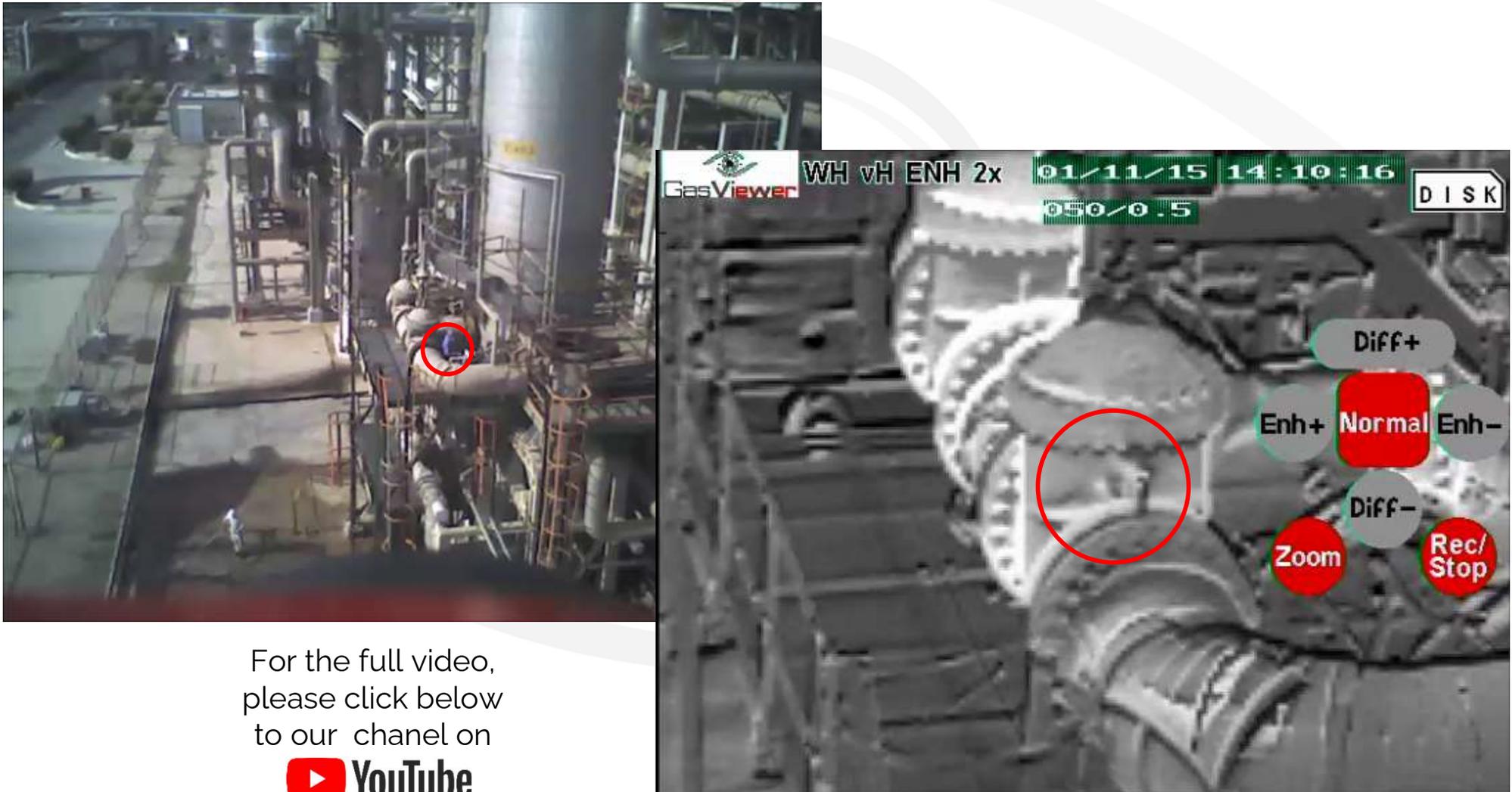


For the full video,
please click below
to our chanel on



1A - Portable OGI camera

We can see ... leaks from a distance...

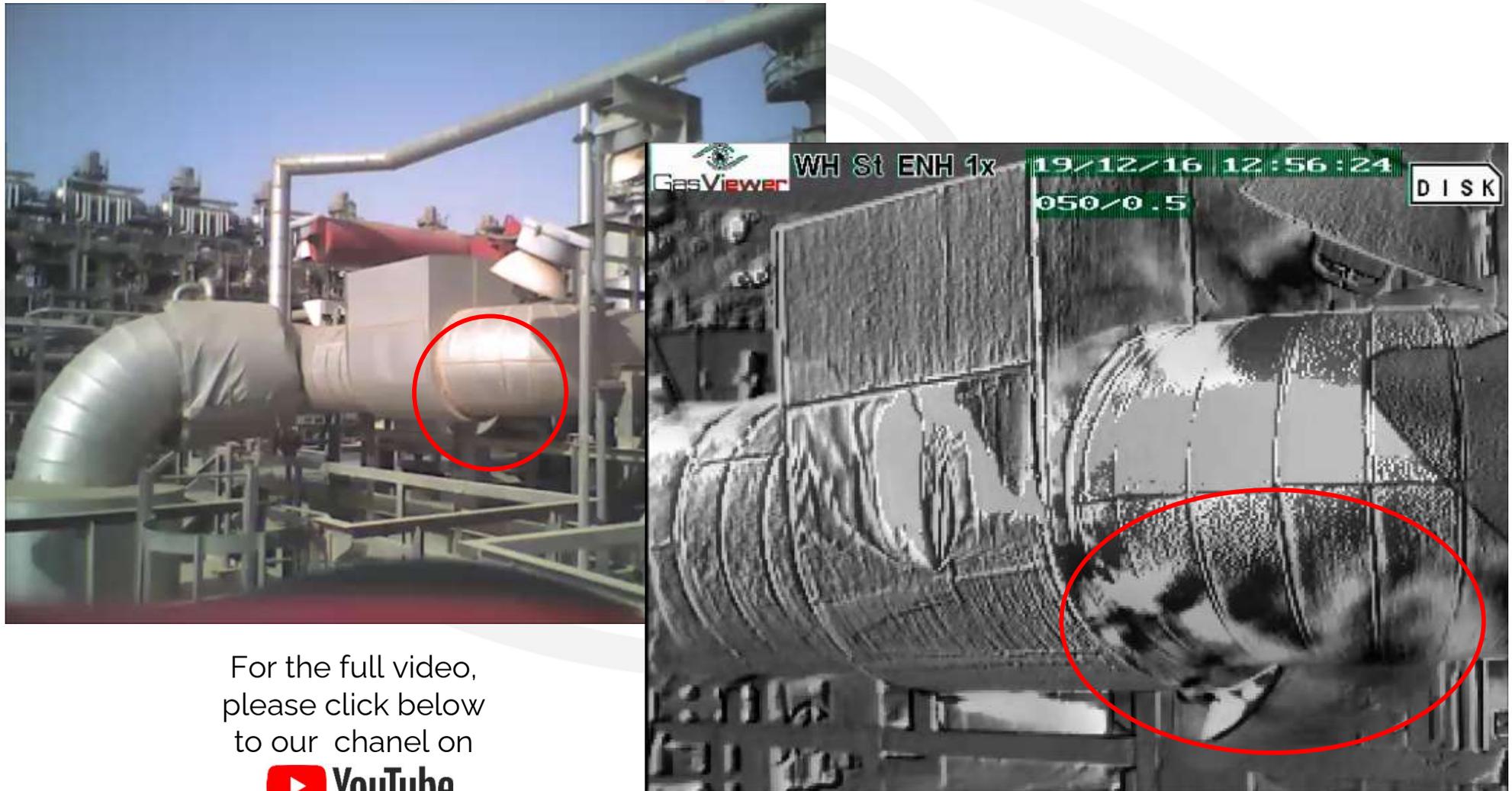


For the full video,
please click below
to our chanel on



1A - Portable OGI camera

We can see ... leaks under insulation...



For the full video,
please click below
to our chanel on



1A - Portable OGI camera

We can see ... underground leaks...



For the full video,
please click below
to our chanel on



1A -Portable OGI camera

We can see ... unexpected leaks...



For the full video,
please click below
to our chanel on



1A -Portable OGI camera

We can see ... unexpected leaks...



For the full video,
please click below
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1A -Portable OGI camera

GV-P-3234 is designed to make your leak detection easier:

- 7" embedded screen for enlarged screen vision
- Electronic image stabilization, a steady image allows your eye to better catch the leak
- Background enhancement
- 10 levels of gas detection sensitivities, to find even the smallest leaks
- Digital continuous zoom from x1 to x16
- Full connectivity, including its own Wi-Fi router to connect with our AteX Tablet GV-Q-3234 loaded with our quantification software, to estimate your gas leaks in real time



1B -Fixed OGI camera

GV-F-3234 / GV-F-714
Fixed OGI camera for 24/7 on site monitoring



Shown with ATEX enclosure certification Ex d for Zone 1 and 2

With gas cloud colorization and quantification in real time,
as per screenshot hereafter

1B - Fixed OGI camera

Fixed cameras for 24/7 on site monitoring



Leak flow rate 0,32 gr/sec (1,15 kg/h) of CH₄ at 50m

For the full video,
please click below
to our channel on

1B - Fixed OGI camera

Fixed cameras for 24/7 on site monitoring



Leak flow rate 0,45 gr/sec CH₄ at 100m

For the full video,
please click below
to our chanel on

1B - Fixed OGI camera

Fixed cameras for 24/7 on site monitoring



Leak flow rate 50 gr/sec (180 kg/h) of CH₄ at 100m

For the full video,
please click below
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1B - Fixed OGI camera

Fixed cameras for 24/7 on site monitoring



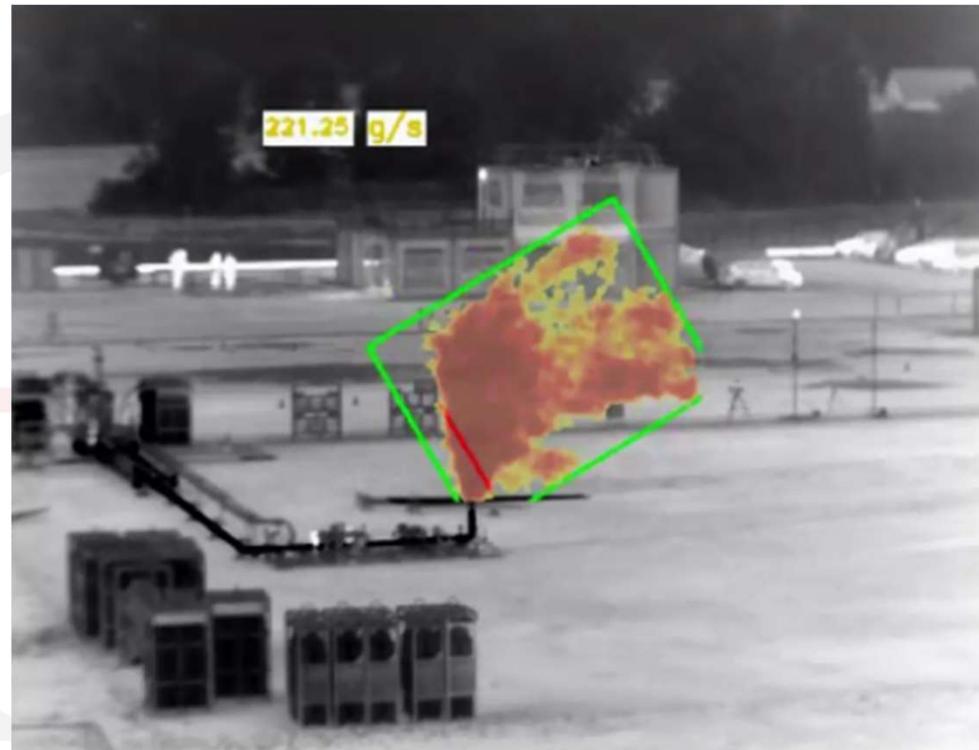
Leak flow rate 100 gr/sec CH₄ at 100m

For the full video,
please click below
to our channel on



1B - Fixed OGI camera

Fixed cameras for 24/7 on site monitoring



Leak flow rate 200 gr/sec (720 kg/h) of CH₄ at 100m

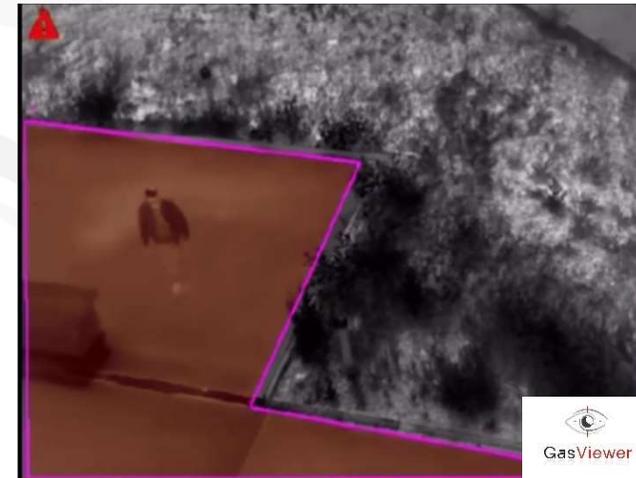
For the full video,
please click below
to our chanel on

1B - Fixed OGI camera

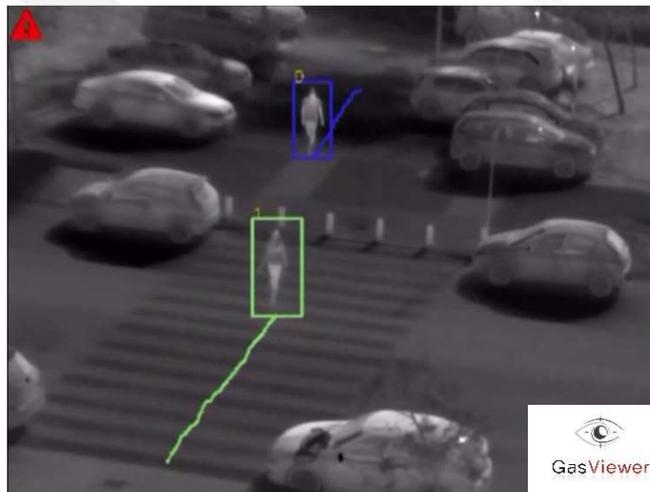
Other alarms that can be turned on in the system



Fire alarm



Virtual fence



Person tracking



« Man down »

02

—
HOT SPOT
FLAME DETECTION
FLARES MONITORING



FlamViewer



2A - Flame and hot spot detection

Fixed camera FV – F -17
“Flame detection and hot spot monitoring”

Flare monitoring



Camera with
Atex casing

2A - Flame and hot spot detection

H2 flame detection



Due to its unique algorithm, the camera can show you the actual H2 flames shape and size on the video received at the control room .



For the full video,
please click below
to our chanel on



2A - Flame and hot spot detection

Ideal for facilities with flammable materials and combustible storage areas that are sensitive to fire danger.

- **Flame detection** (top picture)
Detected fire is marked with circles. When more than one fire detected, each fire is marked with different color (up to 5 fires at one time).

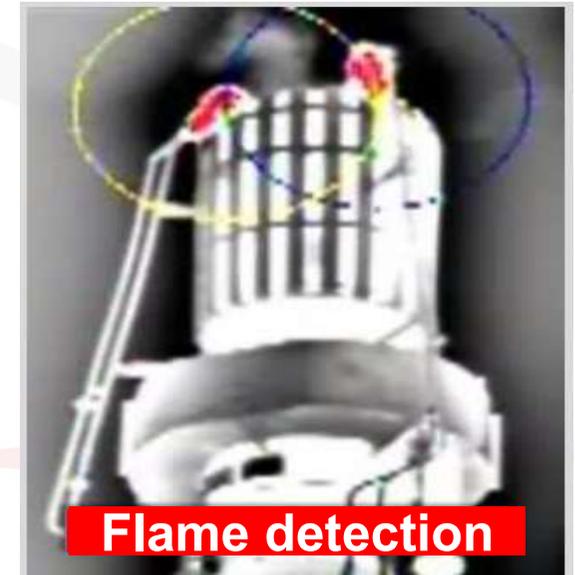
Detection time: 2 to 10 sec depending on applications

Possible simultaneous detections: 5

- **Risk of Fire (hot spot)** (bottom picture)
Areas in which the temperature exceeds the Fire Risk threshold, preset by end user, are colored in red.

Detection time: Immediate

Possible simultaneous detections: unlimited



2A - Flame and hot spot detection

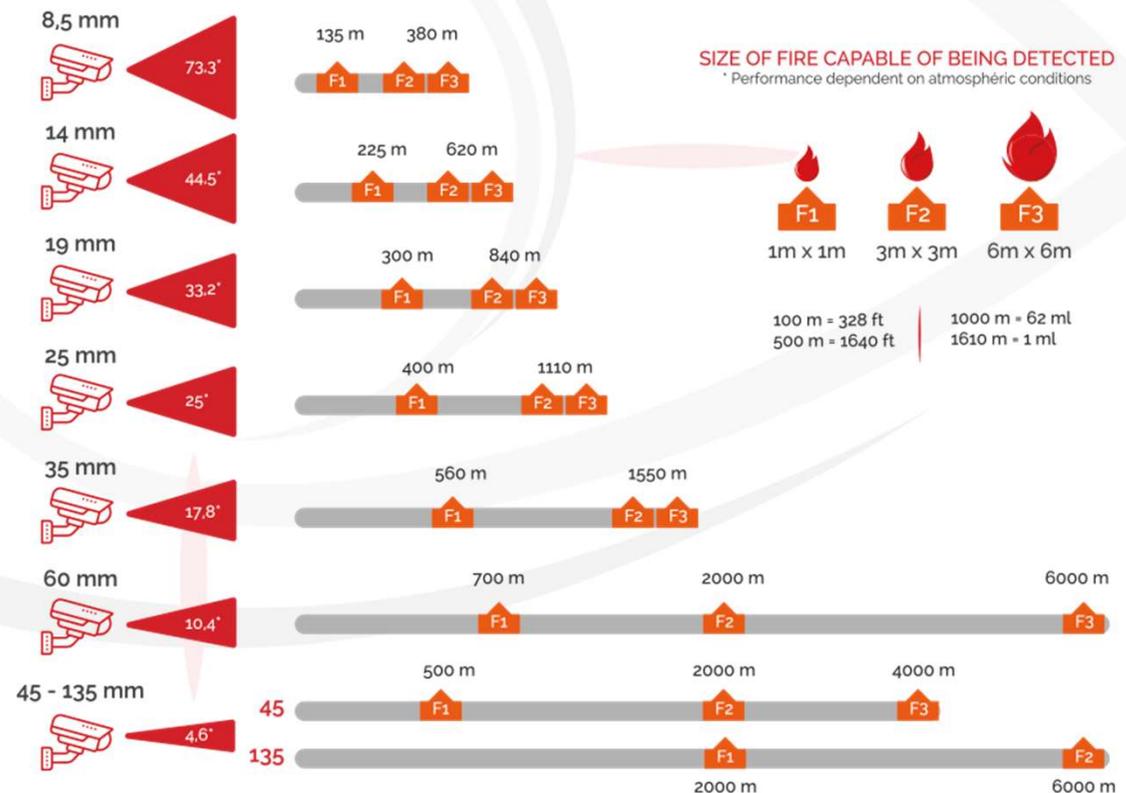
Our camera is available as a fixed camera system or mounted on a Pan/Tilt positioner.

We offer a variety of optics including fixed single field of view athermalized lenses, motorized focus lenses, dual field of view zoom lenses, continuous zoom lenses and an extremely long range 150mm fixed motorized focus lens.



Camera with motorized Atex pan/tilt unit

Detection distance depending on the lens used and the fire size



* Fire detection or Analytics applications require a very stable mounting platform.
 Analytics camera mounting guide for detailed information on mounting for this application.
 * Ranges may be reduced by environmental variables. * Detection Range data assumes a line of sight between fire and camera.

2A - Flame and hot spot detection

Depending on the lens installed on the camera, a limited number of units can monitor a vast area



Multiple tanks roof monitoring using 1 or 2 cameras

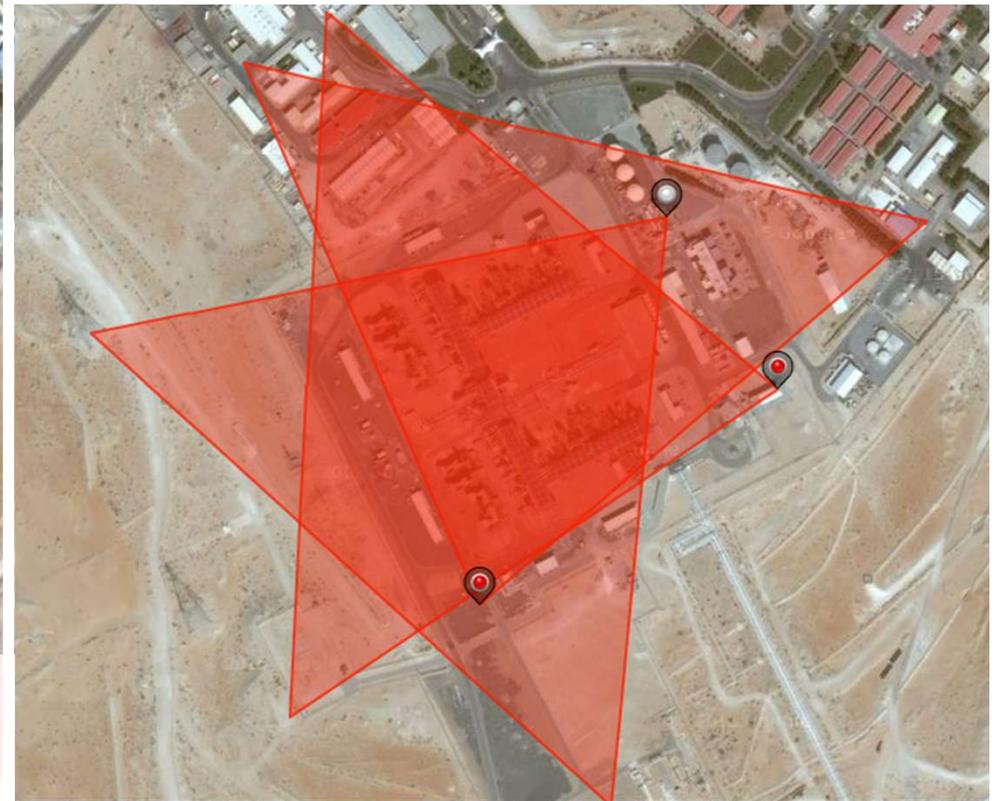


2A - Flame and hot spot detection

Depending on the lens installed on the camera, a limited number of units can monitor a vast area

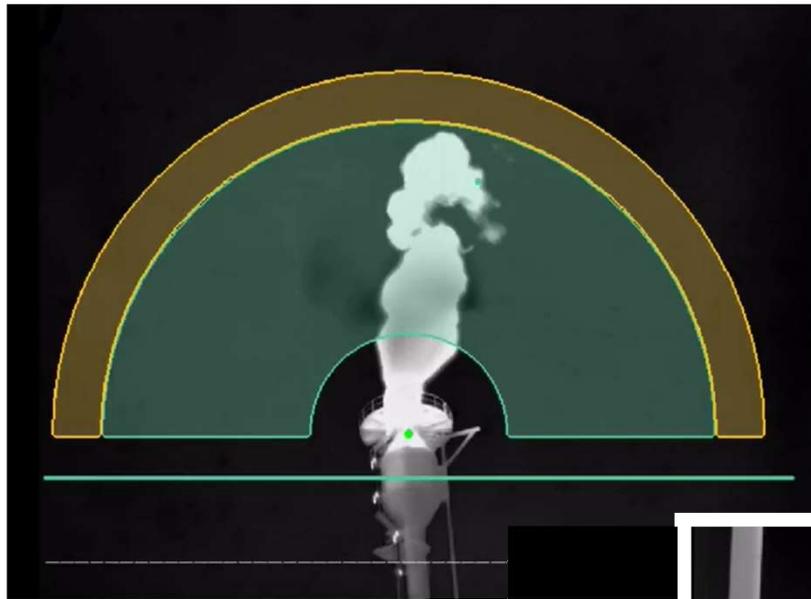


Full gas compression site monitored with 3 cameras



2B - Flare monitoring

Single or multiple flares monitoring system

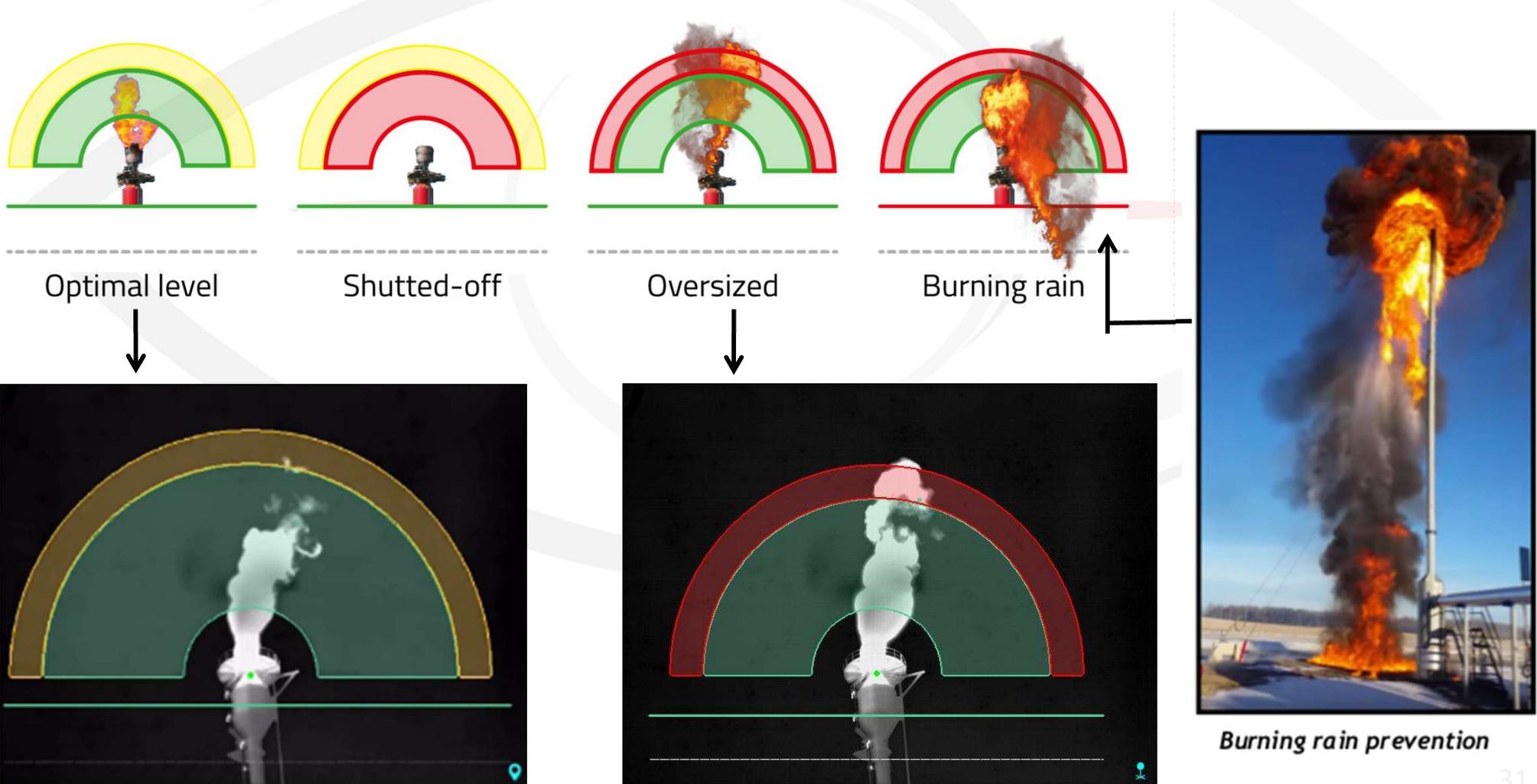


Videos displayed on the control room monitor, showing the alarm zones



2B - Flare monitoring

Multiple on screen alarms: we determine with you what is your normal operation flare size. Then, we trigger an alarm if your flare is off or the flame size is bigger or smaller than your normal size.



03

—
OIL ON WATER
DETECTION



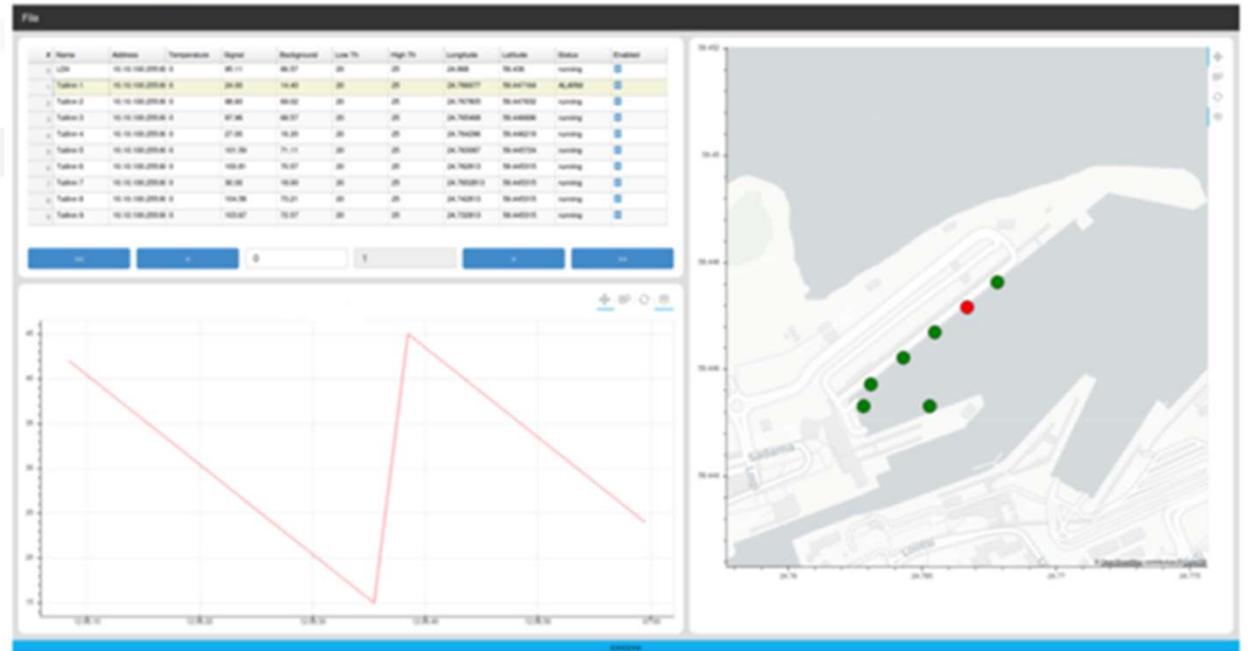
OilViewer

3 – Oil on water detection



Specifically designed for real time detection of oil spills on water and ground surfaces in continuous automatic mode. It detects the specific fluorescence of oil caused by its exposure to certain UV light emissions, while not reacting to other materials that may appear in the observation area, in order to reduce false alarms.

3 – Oil on water detection



Multiple OilViewer units can be linked together and displayed on a map in your control room. In case of alarms the unit which triggered the alarm is shown in red, as opposite, in order to locate the spill.

04

—
FULL TURNKEY
SOLUTION



OGTECH
Oil & Gas Technologies

4 – Full Turnkey solution

Thanks to partnerships with well-known companies, we can supply full turnkey solution to comply with your requirements including:

- Camera power supply using solar panels
- Equipment signal wireless transmission

Our **solar panel solution** includes the solar panels, power regulator, POE switch, batteries and control cabinet. Multiples options are available depending on the required power and the location of the system



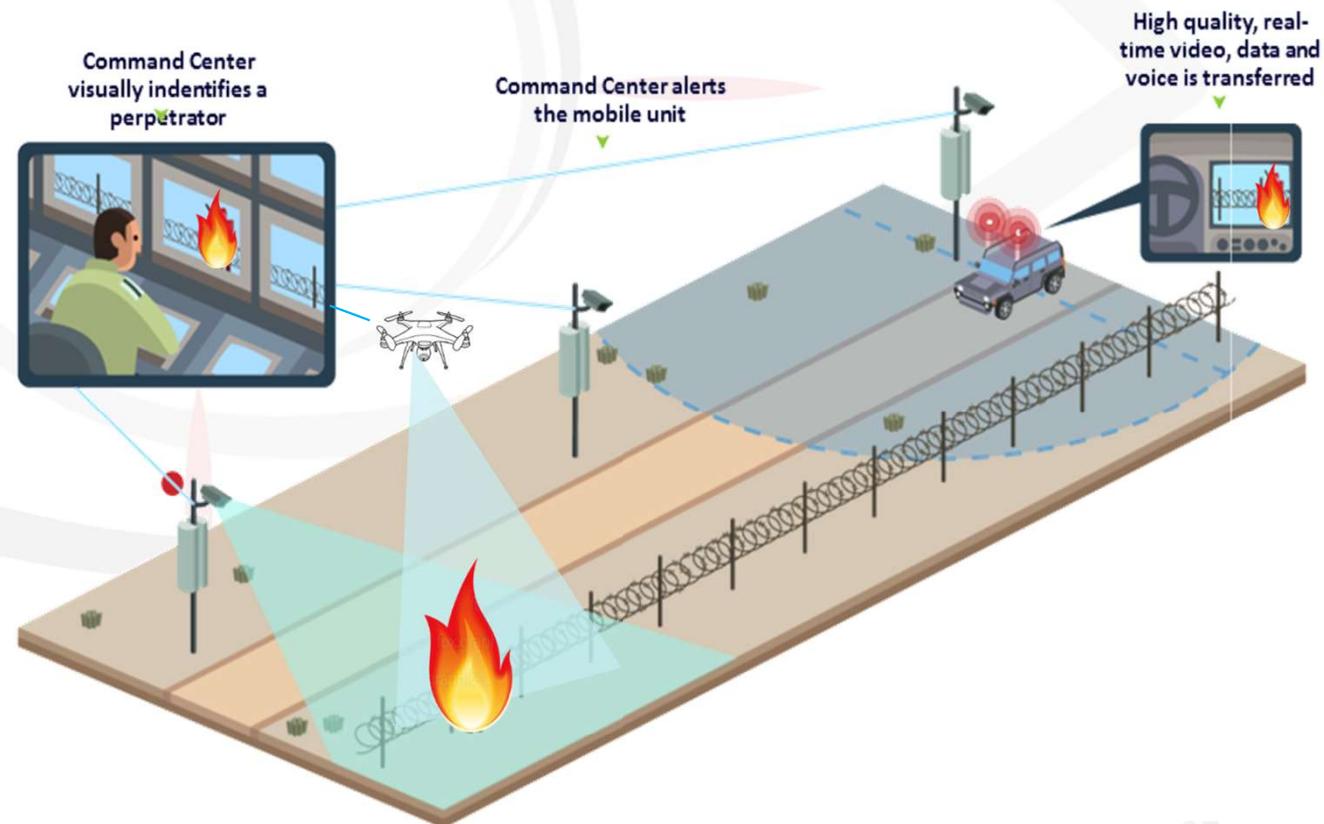
4 – Full Turnkey solution

For our **wireless solution** we take security seriously.

Our system includes

- military grade encryption algorithm,
- possibility to tune our system to a very specific wavelength given by local government license,
- narrow width transmission channel as point to point, to avoid a widespread signal transmission
- Self healing mesh network

Signal will be transmitted from the cameras to the control room, but also to the rescue vehicles equipped with antenna and screen, as long as they are in our wireless network coverage area



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