



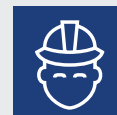
APPLICATION SPOTLIGHT—Oil & Gas



Regulatory
Compliance



Positive Public
Perception



Improve
Safety

REGULATORY COMPLIANCE IN THE NATURAL GAS INDUSTRY

MEET REGULATORY COMPLIANCE REQUIREMENTS WITH OPTICAL GAS IMAGING

THE CUSTOMER'S CHALLENGE

In many parts of the world, there is government influence in the natural gas industry, requiring companies to meet federal or local regulations in order to reduce emissions. These regulations necessitate that natural gas companies perform regular inspection for leaks. While there are various technologies and methods available to do routine checks, a commonly utilized method is a toxic vapor analyzer, or sniffer. This and other technologies can be labor intensive as there are often hundreds — if not thousands — of components to inspect at numerous locations, such as well pads or compressor stations. These inspections may need to be performed annually, quarterly, or at varying time intervals to meet regulatory compliance.

A SOLUTION

Optical Gas Imaging (OGI) technology can make it easier to inspect for gas leaks than other technologies. An OGI camera, such as the FLIR GFx320, can instantly visualize hydrocarbon gases including methane. This camera uses a proprietary filter attached to a cooled infrared detector to detect and locate fugitive emission leaks more efficiently and effectively. It holds a Hazardous Location Certification for Class 1; Division 2 or Zone 2 locations, making it easier to use on many locations that require such classifications. Another solution to meet regulatory compliance is the FLIR G300a fixed Optical Gas Imaging camera. This camera is specifically designed to be used in fixed, continuous applications for 24/7 monitoring. A fixed solution provides complete, remote access to a site. It can even alert the company to an event within a facility, so there is no requirement to drive (sometimes many hours) to the facility for an inspection.

THE RESULTS

In utilizing FLIR OGI cameras for regulatory compliance, professionals in the natural gas industry can inspect locations up to 9 times faster than other technologies with more precision to positively identifying the leak location. In one study a service company estimated that the utilization of OGI in a common compressor station to meet the US EPA's OOOOa regulations takes one day while the same location could take 12 days with other technologies. Another advantage of Optical Gas Imaging is the financial benefits it has. A company based in Wyoming calculated over \$5M in cumulative savings from gas leaks found utilizing Optical Gas Imaging cameras from FLIR.

For more information about FLIR in the oil and gas industry or to schedule a product demonstration visit:

www.flir.com/oilandgas/extraction-production

Imagery for illustration purposes only.

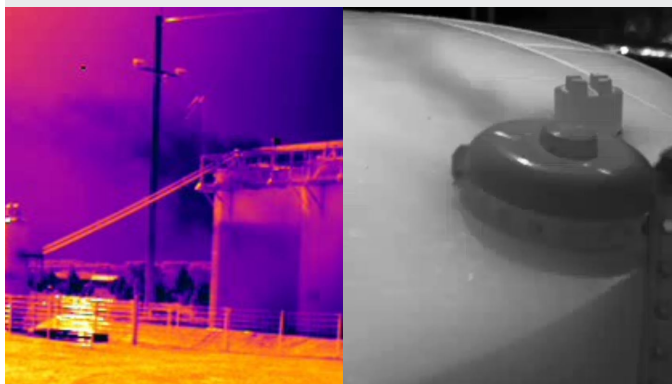
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Regulatory compliance requirements can be challenging to meet as there are so many components to maintain and inspect on a regular basis.



OGI cameras can help professionals in the natural gas industry to inspect locations up to nine times faster than other technologies.



FLIR®