

# Maximize Safety with Hyperspectral Gas Leak Monitoring

## Dangers of gas leaks



**Economic losses**  
Inefficient gas utilization leads to higher costs and increased risks of fires and explosions



**Harm to human health**  
Exposure to gas leaks can lead to poisoning or other serious life-threatening conditions

## Challenges of traditional gas monitoring



High operational costs



Low detection accuracy



Inability to monitor 24/7

## Advantages of hyperspectral gas leak monitoring

**Comprehensive**  
gas analysis



**24/7**  
continuous operation



**Safe**  
remote monitoring



**Integrated**  
alert system



## Product Showcase

| Products                            | TDLAS  | GCI   | Fourier  |
|-------------------------------------|--|---|--|
| Image                               |  |   |  |
| Product Model                       | DS-2XE9440G0-IZHRS/TDL100/CH4<br>DS-2XE9440G0-IZHRS/TDL200/CH4 | DS-2XE9440G0-IZHRS/GC                                   | DS-2MA8988G0-GL (Explosion-proof)<br>DS-2MA8982G0-GL   |
| Detection distances                 | 360° horizontal, ±90° vertical, 100 m/200 m, 40x optical zoom  | 360° horizontal, ±90° vertical, 500 m, 40x optical zoom | 360° horizontal, ±30° vertical, 2 km, 40x optical zoom   |
| Detection of gases                  | CH4<br>Single-gas detection per device                         | Dozens of VOCs gases                                    | 490 kinds of gases such as VOCs, alkanes, olefins, alkynes, esters, phenols, aldehydes, greenhouse gases, etc. |
| Whether a cooler is needed          | No   | Yes   | Yes  |
| Quantitative & qualitative analysis | Qualitative and quantitative analysis                          | Vocs gases can be identified and cannot be quantified   | Qualitative and quantitative analysis (≤30 types one time)   |

## Application Scenarios



Gas pipelines



Pipeline corridors



Petrochemical plants



Industrial parks



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HIKVISION®



**Hyperspectral Sensing Products**  
for Gas Leak Monitoring  
Ensuring Safety, Enabling Sustainability



# Exploring Hikvision's Hyperspectral Sensing Products

## TDLAS Tunable Diode Laser Absorption Spectroscopy

▶▶▶ Accurate qualitative and quantitative gas leak analysis



**Precise gas detection**  
with advanced laser tech, strong anti-interference

**ATEX**  
explosion-proof certifications

**360° horizontal, ±90° vertical** scope at over 100/200 m with 255 presets, 40x optical zoom

**24/7 real-time monitoring** with fast response, platform integration



**Available Model**  
DS-2XE9440G0-IZHRS/TDL100/CH4  
DS-2XE9440G0-IZHRS/TDL200/CH4

## GCI Gas-Cloud-Imaging Camera

▶▶▶ Detect VOCs gas that cannot be quantified



**VOCs gas detection**  
with infrared and spectral imaging

**ATEX**  
explosion-proof certifications

**6-240 mm lens**  
with 40x optical and 16x digital zoom, 500 m range, 360° horizontal and ±90° vertical scope

**24/7 gas flow visualization** with dual-light cameras



**Available Model**  
DS-2XE9440G0-IZHRS/GC

## Fourier Hyperspectral Fourier Gas-Imaging Camera

▶▶▶ Accurate qualitative and quantitative gas leak analysis



**Precise detection of nearly 490 gases**  
using infrared and spectral tech

**ATEX**  
explosion-proof certifications

**2 km range**  
with 360° horizontal and ±30° vertical scope, 40x optical zoom

**24/7 continuous monitoring** with dual-light cameras for real-time leak alerts



**Available Model**  
DS-2MA8988G0-GL (Explosion-proof)  
DS-2MA8982G0-GL