



The **Gas Cloud Imaging (GCI)** camera, with a range up to 1,700m, is designed for large sites and extended areas and uses snapshot hyperspectral imaging for real-time detection, identification and quantification of gas leaks. Concentration and leak location are provided, and real-time alerts create actionable alarms and display live videos of the leak while simultaneously issuing notifications via email or text.

Product Specifications

Detection Approach	Snapshot Hyperspectral Infrared Imaging
Detection Time	< 1 second
Field of View	<i>Long Range:</i> 5.0° x 5.0° <i>Wide Field:</i> 22.6° x 22.6°
Position Control	Pan +/-180° (360° full rotation), Tilt ±45°
Detection Range	<i>Long Range:</i> up to 1,700 m (5,577 ft) <i>Wide Field:</i> up to 660 m (2,165 ft)
Alert/Alarm	Fully automatic alarm with live visual display, audible alert, email, and/or text message
False Alarm Rate	≤ 1%
DCS Integration	Modbus TCP/IP
Video Output	200 x 200 pixels (IR) / 600 x 600 pixels (Visible) at 15 Hz
Weather Conditions	Validated for all weather and light conditions
Temperature Range	-40°C to 55°C (-40°F to 131°F)
Electrical Requirements	Camera: 24VDC, 10A (peak), 7A (continuous) Pan/Tilt: 48VDC, 12A (peak), 6.4A (continuous) , 0.5A (idle) Analyzer: 24 VDC or 120/240 VAC (< 600 W)
Network Connections	1 Serial RS-422 + 1 CAT 6 - Pan/Tilt 3 Multi-mode Fibers, LC Connectors - Camera
Running Time	Continuous (24/7, 365 days)
Self Calibration	Every 7 & 22 minutes
Maintenance	No regular maintenance (except exterior cleaning)
Analyzer	Custom Dell Poweredge R630
Analytics	Up to 7 simultaneously
DVR (Video Storage)	Custom Dell Poweredge R540. Stores up to 5 million detection events with custom auto-erase settings.



Popular Gas Species*	Theoretical Minimum Detection Level (ppm-m)
Acetic acid	180
Ammonia	13.5
Benzene	125
Butadiene	125
Butane	250
Ethane	250
Ethanol	15
Ethylene	250
Iso-Butylene	125
Iso-Pentane	40
Methane	250
Methanol	10
N-Pentane	20
Propane	500
Propylene	125
Toluene	150
Vinyl Chloride	2.5
p- or m-Xylene	20

*Please consult with Sales Representative for a complete gas list. We will also work with you to develop custom gas analytics.



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