



The **Mini Gas Cloud Imaging (Mini-GCI)** camera is a lightweight device designed for congested areas and small sites using 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. Explosion-proof option available.

### Product Specifications

<b>Detection Approach</b>	Snapshot Hyperspectral Infrared Imaging
<b>Detection Time</b>	< 1 second
<b>Field of View</b>	42.0° x 42.0°
<b>Position Control</b>	Pan ±180° (360° full rotation), Tilt ±45°
<b>Detection Range</b>	Up to 100 m (328 ft)
<b>Alert/Alarm</b>	Fully automatic alarm with live visual display, audible alert, email, and/or text message
<b>False Alarm Rate</b>	≤ 1%
<b>DCS Integration</b>	Modbus TCP/IP
<b>Video Output</b>	160 x 160 pixels (IR) / 640 x 640 pixels (Visible) at 15 Hz
<b>Weather Conditions</b>	Validated for all weather and light conditions
<b>Temperature Range</b>	-40°C to 55°C (-40°F to 131°F)
<b>Electrical Requirements</b>	Camera: 24 VDC, 17W, 1A (peak), 0.5A (continuous) Pan/Tilt: 24 VDC, 6A (peak), 4A (continuous), 0.5A (idle) mini-GCI Analyzer: 24 VDC or 120/240 VAC, 120 W
<b>Network Connections</b>	1 Serial RS-422 + 1 CAT 6 - Pan/Tilt 2 CAT 6 Ethernet Connection - Camera
<b>Running Time</b>	Continuous (24/7, 365 days)
<b>Self Calibration</b>	Every 7 & 22 minutes
<b>Maintenance</b>	No regular maintenance (except exterior cleaning)
<b>Standard Analyzer</b>	Custom Nuvo N5006E
<b>Analytics</b>	Up to 3 simultaneously; max 7 with enhanced analyzer
<b>DVR (Video Storage)</b>	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
Carbon Dioxide	1075
Ethane	250
Ethanol	15
Ethylene	250
Iso-Butylene	125
Iso-Pentane	40
Methane	250
Methanol	10
N-Pentane	20
Propane	500
Propylene	125
Sulfur Dioxide	20
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.

