

Gas Cloud Imaging Network Camera

Gas Cloud Imaging Camera Module Function

- Original resolution: 320 × 256
- Refrigerated HgCdTe (MCT) detector with high sensitivity
- Working band: 3.0 μm to 3.5 μm. It can detect more than 50 types of hydrocarbon gases, such as methane, ethylene
- Supports detecting gas leakage by smart algorithm, uploading alarm, and previewing gas imaging with pseudo-color

Optical Camera Module Function

- 1/1.8" progressive scan CMOS, with up to 2560 × 1440 resolution
- Auto-iris, auto-focus, auto white balance, BLC, WDR, 3D DNR, Day/Night Switch
- 6.0 to 240 mm, 40 × optical zoom, 16 × digital zoom
- Defog, HLC, Smart IR
- Up to 200 m IR distance

System Function

- With high precision PT system, the control precision reaches 0.1° to avoid image shaking during movement
- Supports double back-up to avoid data loss after powering off
- Supports power-off memory, resuming the previous PTZ status of device after it restarting from a power-off
- Dual-channel, and single IP address output
- Supports wiper
- 316L stainless steel with anti-corrosion spray coating



Gas Cloud Imaging Network Camera is capable of 7 × 24 routine inspection for hazardous chemical gas producing and storage area by detecting hazardous hydrocarbon gas, locating the leakage source, displaying the real-time leaking gas trace, and uploading alarms. Due to its long-range and non-contact detection for VOCs gas, it provides high efficiency and convenience for hazardous gas detection.

▪ Dimension



Camera	
Image Sensor	1/1.8" progressive scan CMOS
Max. Resolution	2560 × 1440
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON) B/W: 0.0001 Lux @ (F1.2, AGC ON), 0 Lux with IR
Shutter Speed	1 s to 1/30,000 s
Slow Shutter	Yes
P/N	Yes
Day & Night	ICR cut filter
Power-off Memory	Yes
Park Action	Preset, Patrol Scan
White Balance	Auto, ATW, sodium lamp, fluorescent lamp, indoor, outdoor, MWB, Locked WB
Lens	
Focal Length & FOV	Focal Length: 6.0 to 240 mm, 40 × optical FOV: 56.6° to 1.8° (wide-tele)
Focus	Manual, Semi-auto, Auto
Aperture	F1.36
Zoom Speed	4.8 s
PTZ	
Movement Range (Pan)	360°
Movement Range (Tilt)	-90°~90°
Pan Speed	0.1°~40°/s
Tilt Speed	0.1°~30°/s
Presets	300
Patrol Scan	8 patrols
Scheduled Task	Preset, patrol scan
Illuminator	
Supplement Light Type	IR Light
Supplement Light Range	Up to 200 m
Video	
Main Stream	50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video Compression	H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 16384 Kbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
H.264+	Yes
H.265+	Yes
Scalable Video Coding (SVC)	Yes
Region of Interest (ROI)	Fixed Region ROI
Digital Zoom	Yes

Audio	
Audio Compression	G.711alaw/G.711ulaw/G.722.1/G.726/MP2L2/PCM/AAC
Audio Bit Rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32~192 Kbps (MP2L2)/16~64 Kbps (AAC)
Network	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour, UDP, IGMP, ICMP
Simultaneous Live View	20
API	ONVIF, ISAPI, SDK, third-party management platform, ISUP (Ehome 5.0)
User/Host	Up to 32 users. 3 user levels: administrator, operator, and user
Security	Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter
Network Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 128/256 GB, NAS (NFS, SMB/CIFS), Together with high-end memory card, memory card encryption and health detection are supported
Client	PIXELAB ISM Professional
Web Browser	Firefox30+, Safari11+, Chrome41+, IE8 to 11
Image	
Image Parameters Switch	Yes
Image Settings	Saturation, brightness, contrast, sharpness
SNR	≥52 dB
Image Enhancement	120 dB WDR, defog, HLC, EIS, Smart IR
DNR	Yes
Backlight Compensation(BLC)	Yes
Gain	Auto, Manual
Interface	
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
Audio	1 line in, 1 line out
Alarm	2 alarm inputs, 2 alarm outputs
Fiber Optical	1 FC fiber optical interface
General	
Camera Dimension	∅772 × 448 mm (∅ 30.40" × 17.64")
Camera Weight	Approx. 50 kg (110.25 lb.)
With Package Weight	Approx. 70 kg (154.3 lb.)
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). humidity 95% or less (non-condensing)
General Function	Mirror, password protection, water mark, IP address filter
Wiper	Manual
Power Consumption and Current	Max. 75 W
Power Supply	AC: 100 to 240 V; PoE++
Approval	
Protection	IP68
Gas Detection	
Detection Distance	500 m (gas cloud diameter is 1 m)
Respond Band	3.0 μm~3.5 μm
NETD	≤ 15 mK @25 °C

FOV	18° to 3.6°
Focal Length	30 mm to 150 mm
Detector Type	Refrigerated HgCdTe (MCT) detector
Detector Refrigerator Type	Stirling Refrigerator
Resolution	320 × 256
Frame Rate	60 Hz
Pseudo-Color	Yes
Starting Time	≤7 minutes @25 °C
AI Detection	Built-in AI chip
AI Algorithm	Supports smoke/gas smart detection
Refrigerator Lifespan	≥12000 hours
Aperture	F2.0