

# G430

## CO<sub>2</sub> Gas Optical Thermal Imaging Camera

CO<sub>2</sub> gas optical thermal imaging camera is a non-contact device, it can quickly scan CO<sub>2</sub> natural gas pipelines and equipment, real-time and intuitively locate the CO<sub>2</sub> gas leak points and accurately measure the temperature in thermal images, so as to achieve CO<sub>2</sub> natural gas long-distance rapid detection of pipelines and equipment.

### Features

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High sensitivity cooled detector, sensitivity  $\leq 0.01^{\circ}\text{C}$

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CO<sub>2</sub> Gas detection sensitivity  $\leq 3.24\text{g/hr}(\text{CO}_2)$

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High sensitivity mode, small gas leakage can be detected

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It can be used for CO<sub>2</sub> gas imaging leak detection and thermal temperature measurement

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Pictures and videos are stored in SD card directly

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It is small in size and weighs only 2.8 kg

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Intelligent operation

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### Applications

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Ecological Environment Law Enforcement Team, City (County) Motor Vehicle Exhaust Pollution Monitoring Center, Safety Supervision Bureau, Fire Bureau, Maritime Safety Administration, LDAR Testing Service Company

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Offshore oil platform, oil refinery, refineries, gas station, chemical treatment plant, hazardous chemicals parking lot and hazardous chemicals storage tank area

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Natural gas enterprises, natural gas stations, natural gas well sites, natural gas storage facilities, natural gas transmission pipelines and natural gas power plants

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Biogas power plants, pharmaceutical enterprises, pesticide plants, coal chemical plants

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## Technical Specifications

Item	G430
Detector Data	
Type	MCT
IR resolution	320X256
Pixel pitch	30μm
Spectral range	4.2~4.4μm
NETD/Sensitivity	<12mK
Gas sensitivity	≤3.24g/hr(CO <sub>2</sub> )
Lens Data	
FOV / Focal Length	14°X11.2°/39mm
Minimum imaging distance	0.5m
IFOV	0.77mrad
Focus	Manual/Motor/Auto
Lens(optional)	24°X19.2°/23mm (Optional)
Image Performance	
LCD	HD 5.0", 1280X720, rotatable touch screen
Visual camera	5 megapixel CMOS, autofocus, 1 LED fill light
Frequency	50Hz
Amplification	1~10X Digital zoom
Palette	12 palettes (including iron red, rainbow, black hot and white hot, etc.)
Brightness	Manual
Measurement	
Temperature range	-40℃~+500℃
Measurement mode	Real-time 10 movable spots, 5 movable rectangular areas (max./min. temp capture, avg. temp measure), movable line temp measure, isothermal analysis, temp difference measure, temp alarm (sound, color)
Measurement accuracy	0~100℃ Accuracy ±1℃, -20℃~0℃ or > +100℃ Accuracy ±2%
Measurement correction	Auto/Manual
Emissivity correction	Adjustable from 0.1 to 1.0 or selected from list of materials
Background temperature correction	Auto (according to the input background temp)
Atmospheric transmissivity correction	Auto (according to the input distance, relative humidity, ambient temp)
Function settings	Date/time, temp unit ℃/°F/K, language
GPS	Yes
Image storage	
Memory card	128G
Storage method	Auto/manual single frame image or dynamic recording
Single frame infrared image format	JPEG, with 14-Bit measured data image
Video storage method	HD videos are stored in the memory card in MPEG4/H.264, each segment can be up to 1h
Voice annotation	60s voice record, stored image

Timed storage	Every 10s~24h
Laser indicator	
Laser classification	Class 2
Laser power	1mW
Laser wavelength	635nm Red
Interface	
Power interface	Yes
SD card slot	Yes
Video output	HDMI
Communication Interface	WIFI, Bluetooth, USB
Audio output	Yes
Tripod	1/4" _20
Power System	
Battery type	Lithium battery, rechargeable
Operating time	>3h continuous (room temperature)
External power	DC:14V
Charging type	Intelligent charger or DC14V 3A adapter
Power saving	Yes
Environment Parameters	
Operating temperature range	-20℃~+50℃
Storage temperature range	-30℃~+60℃
Humidity	≤90% (non-condensing)
EMC	EN61000-6-4&EN61000-6-2, FCC47CFR Part15 classA, EN61000-4-8, L5
Vibration	2G(IEC60068-2-6)
Shock	25G(IEC60068-2-29)
Protection level	IP54(IEC60529)
Physical data	
Size	240mm(L)×172mm(W)×155mm(H)
Weight	≤2.8kg(with battery and standard lens)
Gas Detection	
Gas Detection	Carbon dioxide, Phosphine
Packing	
Standard	Thermal imaging camera, 2 lithium batteries, battery charger, adapter, vehicle power converter, SD card, SD card reader, USB flash drive, warranty card, carrying case, HDMI cable, user manual

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